**Wiring accessories and
single phase distribution**

Smart solutions for electrical distribution in residential and commercial applications

E·T·N

Powering Business Worldwide

Wiring accessories and single phase distribution

Contents

Eaton's comprehensive range of wiring accessories and single phase distribution solutions have been developed to meet today's challenging electrical applications in residential and light commercial projects and applications. Through a proven competency in electrical distribution, Eaton delivers an innovative and flexible approach to aid compliance with the regulatory requirements associated with modern buildings.

PREMERA white moulded range

PREMERA offers a new consistent range of white accessories combining good aesthetics and high quality material

High quality sturdy, thermoset material

Optional screw cap covers to add the finishing touches

Inherent protection against MRSA

White or grey covers available enabling compliance to DDA (Disability Discrimination Act)/Part M requirements

New aesthetic design throughout the full range

9mm depth front plate provides adequate wiring space in the back box

Throughout the range, all the bases have consistent clear markings

Combination screw-head on all terminal screws enabling quicker, safer termination

2 earth terminals on all double pole sockets

Large tunnel terminals for good wiring access

High quality thermoplastic base material

PREMERA mix modular range

White or grey cover plate option to enable compliance with DDA/Part M requirements

Quick, easy front loading modules –simply push and 'click'in

Optional screw cap covers to add the finishing touches

Plate options from 1 gang to 24 gang, in either 'screw fixed' version or 'clip on' version

Laser marking of legends for longevity and high quality lettering

Large stylish rockers for easy operation

Broad rocker option to meet latest DDA/Building regulations

Quick, easy removal of
modules via clip release

1–4 gang mounting plates come complete
with integral earth strap avoiding
the need to order separate grid

Large terminals for good wiring access

Bottom terminals angled in slightly to
aid access to screws from the top

Module plates up to 12 gang in
urea material and 24 gang in COPA
'clip-on' or 'screw fix' versions

Top facing terminals for easy
access and quicker installation

High quality thermoplastic material on bases

Wiring diagram shown on each module

Totally modular system incorporating;

- Power switches, standard & broad rocker options

- Power sockets in various worldwide styles

- Power indicators, fuses units, cable outlets

- Dimmer modules

- Communication modules including RJ45 Cat 6, isolated co-axial/
  satellite outlets, standard telephone outlets, including RJ11

- xComfort radio frequency switch modules

- 6–24 gang mounting plates comes with all the frames/
  mounts/screws required – just order the modules you need

- 6–24 gang mounting plates have individual removable banks
  for ease of installation and future changes. Banks removed
  via quarter turn fasteners offering quick release/fitting

PREMERA mix combinations

Various socket options
to offer a wide choice of
worldwide applications;

- Standard 13A
  sockets BS1363

- Non standard 13A

- 5 and 15 Amp round pin

- US standard 15A
  3 pin sockets

- European Schuko sockets

- Key switched socket
  with power indicator

- Unique key switch with
  integral neon indicator

COPA clip-on plate range

Eaton's COPA range is strengthened with the introduction of the PREMERA mix range.

- Includes new modular plate options up to 24 gang
- Plates available in decorative plastic finishes and high quality metal finishes
- Plates can be affixed by either clip-on or screw on option depending on the clients' requirements

The following key aspects need to be considered to comply with Part M – Building Regulations.

Eaton's clip-on plate accessory range provides a very easy way to meet the requirements under the Electrical Installations section for switches, outlets and controls.

Design considerations – Part M:

4.28 Controls that **contrast visually with their surroundings are more convenient for visually impaired people**, as are light switches that are activated by a large push pad.

Eaton's solutions:

A range of 8 standard colours/finishes will ensure a suitable contrast is maintained between wall and plate switch/socket.

It is recommended that a 30-point difference in the light reflective value (LRV) be achieved between the two surfaces. The LRV scale runs from 0, which is a perfectly absorbing surface that could be assumed to be totally black, up to 100, which is a perfectly reflective surface that could be considered to be the perfect white.

With COPA, the switch/socket plate colour can be left to the last minute due to its simple clip-on facility. This allows for late confirmation or unknown wall colour. It also avoids any damage to the front plate during wall preparation/painting.

- Choice of 8 contrasting colour/finish plates.
- Final colour of plate can be left to the last minute and clipped on once the wall surround colour is known.

Design considerations – Part M:

4.28 Controls that contrast visually with their surroundings are more convenient for visually impaired people, **as are light switches that are activated by a large push pad**.

Eaton's solutions:

A comprehensive range of broad rocker switches with contrasting coverplates is available including:

- 1 and 2 gang large rocker 2 way switches
- Intermediate switches
- Double pole switches
- Push switches

Light Reflective Value (LRV) plate guide

Plate finish	Approx. LRV
BM BLACK MATT	26
SB SATIN BRONZE	62
SV SILVER METALLIC	65
SS STAINLESS STEEL	70
GL GOLD METALLIC	77
HP HIGHLY POLISHED	82
PB POLISHED BRASS	83
WH WHITE	89

Design considerations – Part M:

4.29 It is also an advantage if individual switches on panels and on multiple socket outlets are well separated, or in the form of large touch plates, to avoid the inadvertent selection of an adjacent control by visually impaired people and individuals with limited dexterity.

Eaton's solutions:

Eaton offers a comprehensive range of sockets with outboard (separated) rockers. Coloured plates can be selected to provide suitable visual contrast.

In Summary:

Eaton's clip-on plate accessory range offers simple solutions;

- Broad rocker range throughout the range finishes.
- Outboard rockers on sockets.
- Contrasting clip-on plates for all products.

Easy installation – COPA (Clip-on Plate Accessory) range

STEP 1
Fit interior electrically safe and can be tested to IET Regulations at this stage.
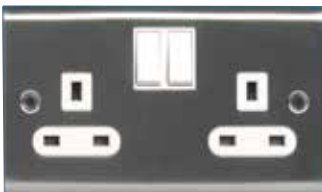**STEP 2**
Determine the colour of the wall then decorate.
STEP 3
Choose finish to meet 30 point LRV criteria.

COPA – clip-on plate version

COPA fix – fixed plate version

COPA fix range

The COPA style of plate is being extended to now offer an alternative to the 'Clip on' plate by offering the same plate profile with it's stylish good looks but with a fixed plate.

COPA fix:

- offers a solution in situations where it is more desirable to have screw fixed plates. It is appreciated not every application is suitable for clip-on plates and in situations such as prisons, schools, public places, it offers the consultant a choice dependant on the clients requirements

- will also benefit from the PREMERA mix range of modular components up to 24 gang size offering many modular solutions

- available in the most popular finish, Stainless Steel

XTRA surface metalclad range

- A subtle change has been made to the front plate style to bring the range more in line with the latest plate style offered in the new look MEM® series of wiring accessories

- Will also benefit from the PREMERA mix range of modular components up to 24 gang size offering many modular solutions

PREMERA proof

- Provides an extensive range of combinations by utilising the 1 and 2 gang IP66 enclosures making a wide variety of combinations

- A new range of weatherproof accessories offering protection up to IP66

Wall mounted range

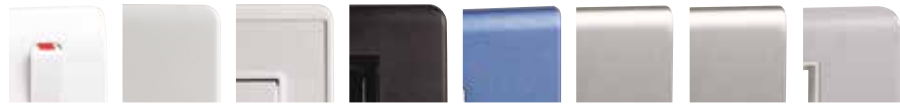| Description	PREMERA range	COPA c/w cover	COPA interior	COPA black interior	COPA decorative plates[1]	COPA metal plates [2]	COPA fix stainless steel	XTRA surface metal
10A switches – 1 way								
10A 1G 1 way	P011	C011WH	C011	C011B	CP011[1]	CM011[2]	–	
10A 2G 1 way	P012	C012WH	C012	C012B	CP012[1]	CM012[2]	–	–
10A 3G 1 way	P013	C013WH	C013	C013B	CP013[1]	CM013[2]	–	–
10A 4G 1 way	P014	C014WH	C014	C014B	CP014[1]	CM014[2]	–	–
10A 1G 1 way bell push	P015	C015WH	C015	C015B	CP015[1]	CM015[2]	B015SS	–
10A 1G 1 way light symbol push	P015L	C015LWH	–	–	CP015L[1]	CM015L[2]	–	–
10A 1G 1 way push	P015P	–	–	–	–	–	–	–
10A 1G intermediate	P017	C017WH	C017	C017B	CP011[1]	CM011[2]	B017SS	X017MG
10A switches – 2 way								
10A 1G 2 way	P021	C021WH	C021	C021B	CP011[1]	CM011[2]	B021SS	X021MG
10A 1G 2 way push	P021P	–	–	–	–	–	–	–
10A 2G 2 way	P022	C022WH	C022	C022B	CP012[1]	CM012[2]	B022SS	X022MG
10A 3G 2 way	P023	C023WH	C023	C023B	CP013[1]	CM013[2]	B023SS	X023MG
10A 4G 2 way	P024	C024WH	C024	C024B	CP014[1]	CM014[2]	–	–
10A 6G 2 way	P026	C026WH	C026	C026B	CP026[1]	CM026[2]	–	–
10A fan isolator								
10A 3-pole fan isolator + fan symbol	P048	C048WH	C048	C048B	CP048[1]	CM048[2]	B048SS	X048MG
10A 3-pole isolator	P049	C049WH	–	–	CP049[1]	CM049[2]	–	X049MG
10A broad rocker switches								
10A 2G 2 way half broad	P032	C032WH	C032	–	CP013[1]	CM013[2]	–	–
10A 1G 2 way broad	P041	C041WH	C041	C041B	CP013[1]	CM013[2]	–	X041MG
10A 1G 2 way broad push	P041P	–	–	–	–	–	–	–
10A 2G 2 way broad	P042	–	–	–	–	–	–	–
10A 1G 1 way broad bell push	P045	C045WH	–	C045B	CP045[1]	CM045[2]	–	–
10A 1G 1 way broad push	P045P	–	–	–	–	–	–	–
10A 1G intermediate broad	P047	C047WH	–	C047B	CP013[1]	CM013[2]	–	–
16A hotel switch								
16A hotel switch	P450	–	–	–	–	–	–	–
Dimmers								
250W 1G 2 way push universal	P9131	C9131WH	–	–	CP9131[1]	CM9131[2]	–	–
250W 2G 2 way push universal	P9132	C9132WH	–	–	CP9132[1]	CM9132[2]	–	–
400W 1G 2 way push universal	P9141	C9141WH	–	–	CP9131[1]	CM9131[2]	–	–
400W 2G 2 way push universal	P9142	–	–	–	–	–	–	–
1000W 1G 2 way push universal (2G plate size)	P9111	C9111WH	–	–	CP9111[1]	CM9111[2]	–	–
1–10V 1G 1 way analogue	P9101	–	–	–	–	–	–	–
500W 1G 1 way universal non-european	P9551	C9551WH	C9551	–	CP9131[1]	CM9131[2]	–	–
500W 2G 1 way universal non-european	P9552	C9552WH	C9552	–	CP9132[1]	CM9132[2]	–	–
1000W 1G 1 way universal non-european	P9511	C9511WH	C9511	–	CP9131[1]	CM9131[2]	–	–
60–500W fan controller non-european	P9751	C9751WH	–	–	CP9131[1]	CM9131[2]	–	–
13A switched sockets – single pole								
13A 1G	P611	–	–	–	–	–	–	–
13A 2G	P612	–	–	–	–	–	–	–
13A switched sockets – double pole								
13A 1G DP 2E terminals	P621	C621WH	C621	C621B	CP621[1]	CM621[2]	B621SS	X621MG
13A 1G DP 2E terminals – grey cover	P621GY	–	C621	–	CP621GY	–	–	–
13A 1G DP 2E terminals + neon	P621N	C621NWH	C621N	C621NB	CP621N[1]	CM621N[2]	B621NSS	X621NMG
13A 1G DP 2E terminals – red cover	P621RED	–	–	–	–	–	–	–
13A 1G DP 2E terminals + red rockers	P621RR	–	–	–	–	–	B621RRSS	X621RRMG
13A 2G DP 2E terminals	P622	C622WH	C622	C622B	CP622[1]	CM622[2]	B622SS	X622MG
13A 2G DP 2E terminals + neon	P622N	C622NWH	C622N	C622NB	CP622N[1]	CM622N[2]	B622NSS	X622NMG
13A 2G DP 2E terminals + red rockers	P622RR	–	–	–	–	–	B622RRSS	X622RRMG

Wall mounted range (contd)

Description	PREMERA range	COPA c/w cover	COPA interior	COPA black interior	COPA decorative plates[1]	COPA metal plates[2]	COPA fix stainless steel	XTRA surface metal
13A switched sockets – double pole, outboard rockers								
13A 2G DP 2E terminals	P632	C632WH	C632	C632B	CP632[1]	CM632[2]	B632SS	X632MG
13A 2G DP 2E terminals – grey cover	P632GY	–	C632	–	CP632GY	–	–	–
13A 2G DP 2E terminals – red cover	P632RED	–	–	–	–	–	–	–
13A 2G DP 2E terminals – red rockers	P632RR	–	–	–	–	–	–	X632RRMG
13A 2G DP 2E terminals + neon	P632N	–	–	–	–	–	–	–
13A switched sockets – double pole, non-standard								
13A 1G DP 2E terminals	P651	C651WH	–	C651B	CP621[1]	CM621[2]	B651SS	X651MG
13A 2G DP 2E terminals – outboard rockers	P652	C652WH	–	–	CP632[1]	CM632[2]	B652SS	X652MG
13A 2G DP 2E terminals – outboard red rockers	P652RR	–	–	–	–	–	–	–
13A switched sockets – double pole, outboard rockers, clean earth								
13A 2G with 2E terminals	P672	–	–	–	–	–	–	–
13A switched socket - outboard rockers with USB charger outlets								
13A 2G with 2 x USB charger outlets	P692	C692WH	C692B	CP692[1]	CM692[2]	–	–	–
13A RCD socket								
13A 2G RCD 30mA – passive	P686	–	–	–	–	–	–	X686MG
13A unswitched sockets								
13A 1G	P111	C111WHA	C111A	C111BA	CP111[1]	CM111[2]	B111SS	X111MG
13A 2G	P112	C112WH	–	C112B	CP112[1]	CM112[2]	B112SS	X112MG
15A switched sockets								
15A 1G	P415	C415WH	–	C415B	CP415[1]	CM415[2]	–	X415MG
Shaver supply unit								
Dual voltage 230V/115V AC	P370	C370WH	C370	C370B	CP370[1]	CM370[2]	B370SS	–
13A connection units – double pole switched with optional cable outlets								
13A connection unit	P221	C221WH	C221	C221B	CP221[1]	CM221[2]	B221SS	X221MG
13A connection unit – grey cover	P221GY	–	C221	–	CP221[1]	–	–	–
13A connection unit 'boiler'	P221BO	–	–	–	–	–	–	–
13A connection unit 'central heating'	P221CH	–	–	–	–	–	–	–
13A connection unit 'cooker hood'	P221CKH	–	–	–	–	–	–	–
13A connection unit 'dishwasher'	P221DW	–	–	–	–	–	–	–
13A connection unit 'extract fan'	P221EF	–	–	–	–	–	–	–
13A connection unit 'refrigerator'	P221R	–	–	–	CP221RWH	–	–	–
13A connection unit + red rocker	P221RR	–	–	–	–	–	–	X221RRMG
13A connection unit 'washing machine'	P221WM	–	–	–	CP221WMWH	–	–	–
13A connection unit fitted with 3A fuse	P223	–	–	–	–	–	–	–
13A connection units – double pole switched + neon with optional cable outlets								
13A connection unit	P221N	C221NWH	C221N	C221NB	CP221N[1]	CM221N[2]	B221NSS	X221NMG
13A connection unit – grey cover	P221NGY	–	C221N	–	CP221NGY	–	–	–
13A connection unit 'refrigerator'	P221NR	–	–	–	CP221NRWH	–	–	–
13A connection unit + red rocker	P221NRR	–	–	–	–	–	–	X221NRRMG
3A connection unit 'water heater'	P221NWH	–	–	–	–	–	–	–
13A connection unit 'washing machine'	P221NWM	–	–	–	CP221NWMWH	–	–	–

Wall mounted range (contd)

Description	PREMERA range	COPA c/w cover	COPA interior	COPA black interior	COPA decorative plates[1]	COPA metal plates [2]	COPA fix stainless steel	XTRA surface metal
13A connection units – unswitched with optional cable outlets								
13A connection unit	P220	C220WH	C220	C220B	CP220[1]	CM220[2]	B220SS	X220MG
13A connection unit + red fuse drawer	P220RR	–	–	–	–	–	–	X220RRMG
13A connection unit fitted with 3A fuse	P224	–	–	–	–	–	–	–
13A connection units – unswitched + neon with optional cable outlets								
13A connection unit	P220N	C220NWH	C220N	C220NB	CP220N[1]	CM220N[2]	B220NSS	X220NMG
13A connection unit fitted with 3A fuse	P223N	–	–	–	–	–	–	–
20A double pole switches with optional cable outlet								
20A switch	P401	C401WH	C401	C401B	CP401[1]	CM401[2]	B401SS	X401MG
20A switch marked 'water heater'	P403	C403WH	–	–	–	CM403[2]	–	–
20A double pole switches + neon with optional cable outlets								
20A switch	P401N	C401NWH	C401N	C401NB	CP401N[1]	CM401N[2]	B401NSS	X401NMG
20A switch marked 'water heater'	P403N	C403NWH	–	–	CP403N[1]	CM403N[2]	B403NSS	–
20A switch marked 'air conditioner'	P404N	–	–	–	–	–	–	–
45A double pole switches – cooker control units								
45A DP cooker control unit	P425	C425WH	C425	C425B	CP425[1]	CM425[2]	–	–
45A DP cooker control unit + neon	P425N	C425NWH	C425N	C425NB	CP425N[1]	CM425N[2]	B425NSS	–
50A double pole switches – 2 gang plate size								
50A DP switch	P421	–	–	–	–	–	–	X421MG
50A DP switch + neon	P421N	C421NWH	C421N	C421NB	CP421N[1]	CM421N[2]	B421NSS	X421NMG
50A DP switch marked 'cooker'	P423	–	–	–	–	–	–	–
50A DP switch + neon marked 'cooker'	P423N	–	–	–	CP423N[1]	CM423N[2]	–	–
50A DP switch + neon marked 'air conditioner'	P424N	–	–	–	CP424N[1]	CM424N[2]	–	–
50A double pole switches – 1 gang plate size								
50A DP switch + neon	P422N	C422NWH	C422N	C422NB	CP422N[1]	CM422N[2]	B422NSS	–
50A DP switch + neon – grey cover	P422NGY	–	C422N	–	CP422NGY	–	–	–
50A DP switch + neon marked 'cooker'	P426N	C426NWH	–	–	–	–	B426NSS	–
50A DP switch + neon marked 'air conditioner'	P427N	–	–	–	–	–	–	–
Cable/cooker outlet/cable outlet adaptor plate								
20A flex outlet plate	P210	–	–	–	–	–	–	–
Cable outlet adaptor plate for 20A switch/3A fused connection unit	P212	C212	–	–	–	–	–	–
45A DP cable outlet with terminal block	P345	–	–	–	–	–	–	–
Phone outlets								
1G telephone outlet master	P360	C360WH	C360	C360B	CP360[1]	CM360[2]	–	X360MG
1G telephone outlet secondary	P361	C361WH	C361	C361B	CP360[1]	CM360[2]	–	X361MG
1G american telephone outlet RJ11	P362	-	C362	C362B	CP360[1]	CM360[2]	–	–
Data outlets								
1G RJ45 CAT 6 outlet interior	–	C363WH	C363	C363B	CP360[1]	CM360[2]	–	–
Communication outlets								
1G TV co-axial	P351	C351WH	C351	C351B	CP351[1]	CM351[2]	B351SS	–
1G TV co-axial dual clamp	P351D	–	–	–	–	–	–	–
2G TV co-axial outlet	P352	C352WH	–	–	CP352[1]	CM352[2]	–	–
1G TV/FM isolated co-axial	P353	C353WH	–	–	CP351[1]	CM351[2]	–	–
2G TV/FM diplexer co-axial	P354	C354WH	C354	–	CP352[1]	CM352[2]	–	–
1G satellite	P355	C355WH	C355	C355B	CP351[1]	CM351[2]	–	–
2G TV/satellite	P356	C356WH	–	C356B	CP352[1]	CM352[2]	–	–
2G TV/radio	P357	–	–	–	–	–	–	–
1G TV/radio/satellite return	–	C359WH	–	–	CP359[1]	CM359[2]	–	–
Blank plates								
1G blank plate	P391	C391WH	C391	C391	CP391[1]	CM391[2]	B391SS	X391MG
2G blank plate	P392	C392WH	C392	C392	CP392[1]	CM392[2]	B392SS	X392MG

Wall mounted range (contd)

Description	PREMERA range	COPA c/w cover	COPA interior	COPA black interior	COPA decorative plates[1]	COPA metal plates [2]	COPA fix stainless steel	XTRA surface metal
Spare screw caps								
Spare screw caps – PREMERA range	**P999**	–	–	–	–	–	–	–
PREMERA mix module cover plates								
1G module plate moulded	**P901**	C901WH	C901	C901B	CP901[1]	CM901[2]	B901SS	X901MG
2G module plate moulded	**P902**	C902WH	C902	C902B	CP902[1]	CM902[2]	B902SS	X902MG
3G module plate moulded	**P903**	C903WH	C903	C903B	CP903[1]	CM903[2]	B903SS	BX903MG
4G module plate moulded	**P904**	C904WH	C904	C904B	CP904[1]	CM904[2]	B904SS	X904MG
6G module plate assembly moulded	**P906**	–	C906	C906B	CP906[1]	CM906[2]	B906SS	X906MG
8G module plate assembly moulded	**P908**	–	C908	C908B	CP908[1]	CM908[2]	B908SS	X908MG
12G module plate assembly moulded	**P912**	–	C912	C912B	CP912[1]	CM912[2]	B912SS	X912MG
18G module plate assembly	–	–	C918	C918B	CP918[1]	CM918[2]	B918SS	X918MG
24G module plate assembly	–	–	C924	C924B	CP924[1]	CM924[2]	B924SS	X924MG
1G module plate moulded grey cover	**P901GY**	–	C901	–	CP901GY	–	–	–
2G module plate moulded grey cover	**P902GY**	–	C902	–	CP902GY	–	–	–
3G module plate moulded grey cover	**P903GY**	–	C903	–	CP903GY	–	–	–
4G module plate moulded grey cover	**P904GY**	–	C904	–	CP904GY	–	–	–
6G module plate assembly moulded grey cover	**P906GY**	–	C906	–	CP906GY	–	–	–
8G module plate assembly moulded grey cover	**P908GY**	–	C908	–	CP908GY	–	–	–

[1] Plastic covers available in the following finishes

Finish	add suffix to end of part number	Example of product code
White	**WH**	**CP904WH**
Metallic silver	**SV**	**CP904SV**
Gold metallic	**GL**	**CP904GL**
Black matt	**BM**	**CP904BM**

[2] Metal plates available in the following finishes

Finish	add suffix to end of part number	Example of product code
Stainless steel	**SS**	**CM904SS**
Highly polished	**HP**	**CM904HP**
Satin bronze	**SB**	**CM904SB**
Polished brass	**PB**	**CM904PB**

CIRCA ceiling range

Lamp activated products offer a comprehensive range for applications such as schools, nurseries, children's bedrooms and public buildings where an extra degree of protection may be required.

Technical characteristics:

- T2 rated
- Full range of lampholders and battenholders
- Each item incorporates DP switching mechanism
- No live parts accessible when lamp is removed
- Tool required to access terminals

BC3 Low Energy CFL (compact fluorescent lamp) range is a dedicated lampholder range for use with low energy lamps.

This range covers the most commonly used items within the home.

Using CFL's means that the benefits of energy efficient lighting are available in the home. They are appropriate to areas where lights are left on for long periods of time such as hallways, staircases, entrances, kitchens, bedrooms and bathrooms.

The most versatile option is to use a pendant or battenholder, a direct substitute for a normal BC lampholder. There is no extra installation time and is safe and easy to do.

Why use the BC3 range?

- The range will accept standard UK size lampshades and require no adjustment.
- The house owner is not restricted to the wattage of lamp by the lampholder. The same BC3 lampholder will accept a range of wattages to suit the customers needs.
- BC3 offers a cost effective solution to the developer and contractor.
- The range of lampholders offered meets all the normal requirements for housing - pendant sets, battenholders and angled battenholders.
- Reduced wattage and heat generated by CFL means a wider choice of decorative lampshades for the home.
- Lamps are CE marked and meet latest standards – IEC 60969 and IEC 60901.
- Dedicated 3 pin 'J' slot lampholders and 3 pin BC lamp bases.

LSC plug-in lighting system

The BS 7001 LSC (Luminaire Supporting Coupler) system is recognised as the industry standard interface, offering complete changeability with other manufacturers' products. To meet the increasing industry demand for LSF cable, Eaton now offers both 3 and 4 pin versions with low smoke and fume cable.

Both versions provide considerable benefits for the specifier, contractor and end user. Litelink represents a significant advance in the safety and ease of installation of lighting points.

- A range for all Commercial, Industrial and Domestic projects
- Designed for ease of installation
- Cable available in 1, 2 and 3m lengths with HR (Heat Resistant) and LSF (Low Smoke and Fume) options
- Pre-flexed 3 and 4 pin products with either 0.75mm^2 or 1.00mm^2 cable
- High quality, reliable, safe range of products

3 pin system

This version has a wide range of applications in many commercial and industrial environments. Its technical and design features are supplemented with a full range of plug, outlets, assemblies, pendants and mounting boxes. In use, it provides flexibility for the specifier, easy installation for the contractor and convenience for the end users.

- 3 pin plugs can be used safely in 4 pin outlets
- LSC pre-wired ceiling assembly with 2 or 3m of cable, ideal for suspended ceiling lighting
- Spacious easy wire plug with quick cover release screws
- Bases will take up to 2 x 4.00mm^2 cables

4 pin system

This version has been specifically designed for applications where an extra live conductor is required i.e. emergency lighting. It has all the benefits of the 3 pin system, but the auxiliary live conductor gives greater flexibility in switching capabilities. It can also be used as a time delay trigger mechanism and offers greater control over multi-lamp luminaires.

- Red plug top and cover ensures easy identification of 4 pin circuit
- The first 4 pin system to comply with BS 7001
- Large outlet terminals will take up to 2 x 4.00mm^2 cable
- Terminal access designed to aid cable installation on outlet and plug

LDU Multi-outlet Box

The LDU Multi-outlet boxes utilise the LSC 'plug-in' lighting interface allowing luminaires to be plugged in, providing safety without isolation of the circuit. The LDU (Lighting Distribution Unit) incorporates LSC outlets which accept both Eaton's 3 and 4 pin plugs.

The 4 pin plug uses the fourth auxiliary socket contact for emergency lighting requirements.

- 6, 8 and 10 outlet units available
- Will accommodate 3 or 4 pin applications
- Separate back box to enable first fix with simple plug connectors for front cover
- Complies with the recognised industry interface BS 7001
- Extensive range of pre-wired plugs available in both HR (Heat Resistant) and LSF (Low Smoke and Fume) cable
- Mounting options – wall, ceiling, trunking or suspension
- Makes life easy – no need for on-site wiring of individual fittings
- Steel box for harsh environments
- Interchangeable front covers (6, 8 and 10) to enable, if required, expansion at a later date

Memera Full Metal Consumer Units

The new range of full metal consumer units provide a suite of products to meet the requirements of BS7671:2008 17th Edition IET wiring regulations amendment 3:2015.

Regulation 421.1.201 has been introduced to contain a fire should one develop within a consumer unit, the fire igniting primarily as a result of poorly installed connections or faulty installed components. It requires that within domestic (household) premises, consumer units and similar switchgear assemblies shall comply with BS EN 61439-3 and must have their enclosure manufactured from non-combustible material. Otherwise, it should be enclosed within a cabinet or enclosure constructed of non-combustible material.

This regulation effectively requires the use of a full metal consumer unit with the complete enclosure, i.e. the base, cover and door made from steel and will ultimately affect all new and rewired installations in homes referred to as 'domestic (household) premises' which will include integral / attached garages and outbuildings in close proximity.

Amendment 3 published in January 2015 became effective on new and rewired installations designed after 30th June 2015, however clause 421.1.201 had the later implementation date of 1st January 2016.

New Full Metal Consumer Unit features

- Full compliance with BS EN 61439-3.
- Full metal enclosure to meet requirements of BS7671 Amendment 3 regulation 421.1.201.
- Sturdy steel enclosure with ample cable entry knockouts to accommodate cable entry from top, bottom or rear face of the enclosure.
- Multiple large apertures in rear face of enclosure to allow flexible cable entry from the rear.
- Dual use cable entry on top and bottom surfaces to accommodate entry via both round and rectangular knockouts.
- "Snap - able" busbars enabling easy on-site configuration.
- Dual RCCB units come with three Neutral bars as standard for High Integrity configuration.
- Comprehensive label kit to complete the installation.
- Polyester powder coat paint finish which complies with industry standards for low smoke density, flame propagation and toxic fume emission. RAL 9010 (Pure white).
- Flush mounting and twin rail variants will also be available up to 38 outgoing ways.

Factory Built Assemblies (FBA) features

- Boards can be pre-configured in the factory with outgoing protective devices to customer requirements.
- Factory fitted devices can include command and control devices such as transformers, timers, contactors and relays as well as kWh meters complete with internal wiring as required.

Memera full metal consumer unit – External features and benefits

Full front modern aesthetic curved edge metal door

Comprehensive user instructions and labelling kit

Door catch for added security which can be removed and replaced with key locking device

Top hinge design so that it cannot be inadvertently left open

Cover secured by means of retained combination head screws

High quality clear sub circuit identification labels

Polyester paint finish tested for low smoke, flame propagation and fume emission

Modern IP30 robust steel enclosure with ample cable knockouts in the top, bottom and rear faces to allow cable entry via holes or rectangular trunking entries

- The new full metal consumer unit range with all steel enclosure, including the base, front cover and door assembly, meets the requirements of BS 7671:2008 Amendment 3:2015.
- Modern stylish appearance fully assembled with ample knockouts in steel enclosure to suit all applications. The units are delivered factory assembled and fully equipped with all main controlling devices and interconnections. All that is required is to remove and install the busbar which is secured in the rear of the unit and fit the outgoing devices.

- The new range of units are ideal for both domestic and light commercial applications where a more robust metal enclosure is needed.
- The units are available with single or multiple incoming device options as well as the various dual RCD combinations widely used to enable compliance with the 17th Edition wiring regulations.
- Manufactured to BSEN 61439-3.
- Degree of protection IP 30.

Memera full metal consumer unit – Internal features and benefits

Neutral bars as standard for flexible configuration of dual RCD units

Neutral and earth bars fully rated at 100A

Distinct wiring zones for easier and neater installation

Busbars supplied loose for onsite final configuration

Freely configurable RCD ways on split load / dual RCD boards

Clip-on bus bar shield providing complete shrouding of live busbars

Ample wiring space across the full length of the busbar

Easy removal of dual function knockouts to accommodate glands or trunking

- The Memera consumer units use MCBs and RCBOs for final sub circuit protection and can also accommodate a wide range of command and control devices such as timers, contactors and relays.

- The split load and multiple RCD units all feature a variable split design with busbars that can be simply split on site to enable the exact configuration to be achieved.

- Multiple knockouts on top and bottom faces of the enclosure in addition to the rear provide most flexible cable entry.

- Top and bottom face knockouts accommodate 75 x 50mm trunking as well as 20mm glands / grommets

- Dual RCD units incorporating an isolator main switch and providing grouped 30mA RCD protection in two zones, can also be configured with some high integrity ways fed directly off the isolator. Ideal for protecting selected circuits with independent RCBOs.

- Full instructions and a comprehensive labelling kit enable the installation to be completed professionally with all the appropriate internal warning and circuit identification labels.

17th Edition regulations and consumer units

The 17th Edition of the Wiring Regulations BS7671 has introduced a number of significant changes which have impacted significantly on design and installation of consumer units. When it was first published in 2008 the most significant change introduced the much wider use of RCDs within the electrical installation, and the 3rd amendment published in 2015 now introduces a requirement for a consumer unit to have or be enclosed within a non-combustible enclosure when used in domestic (household) premises. See **Regulation 421.1.201** below.

Regulation 314.1 & 2

Requires that every installation shall be divided into circuits as necessary to avoid danger and minimise inconvenience, in the event of a fault. Also reducing the possibility of unwanted RCD tripping, due to excessive protective conductor currents but not due to an Earth fault. Separate circuits may be required for parts of the installation, which need to be separately controlled in such a way that they are not affected by the failure of other circuits. The appropriate subdivision should take account of any danger arising from the failure of a single circuit e.g. an RCD trip on a socket outlet causing the unwanted failure of a lighting circuit and its associated hazards.

Regulation 411.3.3

States that additional protection by means of a 30mA RCD is to be provided for all socket outlets with a rated current not exceeding 20A for use by ordinary persons. The only exceptions allowed are for socket outlets for use under the supervision of "skilled" or "instructed persons" e.g. some commercial / industrial locations, or a specific labelled socket provided for connection of a particular item of equipment, e.g. a freezer circuit.

Regulation 421.1.201

New regulation requires that within domestic (household) premises, consumer units and similar switchgear assemblies shall comply with BS EN 61439-3 and shall:
(i) have their enclosure manufactured from non-combustible material, or
(ii) be enclosed in a cabinet or enclosure constructed of non-combustible material.
Ferrous metal is the example given for a non-combustible material, hence the full metal consumer unit is now the standard to achieve compliance.

Regulation 522.6.202 & 203

Requires the use of RCDs to protect the wiring concealed in walls or partitions even where installed in previously defined "Safe Zones". These regulations effectively mean that all concealed wiring at a depth of less than 50mm from the surface requires protection by a 30mA RCD unless provided with earthed mechanical protection.

Regulation 701.411.3.3

In specific locations such as those containing a bath or shower there is a requirement now to provide RCD protection on all circuits, including the lighting and shower circuits.

Application of RCDs

The 17th Edition of the IEE wiring regulations (BS7671), details the use of RCDs (Residual Current Devices) with a residual operating current not exceeding 30mA as the recognised means of providing additional protection in the event of failure of the provision for basic protection and or the provision for fault protection or carelessness by users.

Such RCDs should not be used to provide the sole means of protection and do not obviate the need to apply one or more of the recognised protective measure as detailed in the regulations.

Under the regulations an installation is required to incorporate one or more RCDs, depending upon the circumstances. Such instances include:-

- All socket outlets not exceeding 20A, but with certain exceptions. One such exception would be permitted for a specific labelled or otherwise suitably identified socket outlet for connection of a particular piece of equipment.

- Mobile equipment with a current rating not exceeding 32A for use outdoors.

- Electrical circuits installed under "Special installations and locations" as defined in Part 7 of the regulations e.g. Swimming Pools / Saunas.

- All electrical circuits, including shower and lighting circuits etc. in rooms with a fixed bath or shower e.g. bedrooms and en-suite bathrooms.

In addition to the protection requirements of the outgoing circuits / loads, the requirements of the installed cabling also must be taken into account.

Where a cable is concealed in a wall or partition at a depth of less than 50mm from the surface, even if installed in the "safe zone", if not provided with earthed mechanical protection e.g. Metal trunking or conduit, it must be provided with additional protection by means of a 30mA RCD.

Whilst it may be desirable to have one or two circuits fed via an unprotected circuit e.g. an identified / dedicated freezer circuit, the installation of the wiring may still dictate that the circuit must be RCD protected. The protection of a circuit by means of a 30mA RCD is also required where cables are concealed in walls constructed with metal stud partitions which are common in modern buildings, irrespective of the depth from the surface, unless provided with protection in the form of earthed metallic covering, trunking, conduit or other mechanical protection so as to avoid damage to the cable during installation or construction of the wall.

IEE Regulations and British Standards are subject to amendments. This Eaton guide to consumer unit solutions is not a substitute for the regulations which should always be used for all types of electrical installations and design work.

Summary of RCD application

Regulations	Relating to	Example	Additional Protection
411.3.3	All socket outlets up to 20A rating for general use by ordinary persons	– Upstairs sockets – Downstairs sockets – Kitchen sockets – Cooker outlet with integral 13A socket outlet – Plus any other sockets rated up to 20A including garage sockets	30mA RCD
701.411.3.3	All electrical circuits in a room with a fixed bath or shower	– Shower circuit – Lighting circuit – Heating circuit – Ventilation circuit – Shaver socket – Socket outlets	30mA RCD
522.6.202 522.6.203	All electrical circuits buried in a wall or partition at less than 50mm and without mechanical protection	All concealed wiring – Socket outlets – Lighting circuits – Smoke alarm – Burglar alarm	30mA RCD

Installation design

The 17th edition wiring regulations BS7671 Amendment 3: 2015 applies to all new installations designed after 30th June 2015, and there are various options that must be considered in order to satisfy these requirements. Starting with the wiring scheme and the building design, consideration must be given to the purpose of the building, and to the persons who will be using the installation, as different regulations will be applicable, e.g. is the installation under the control of skilled or instructed persons, or ordinary persons, or perhaps the installed location contains a bath or shower. Answers to these points will start to focus in on the regulations that need to be followed.

Consideration must be given to the way cables will be fitted within the installation, either on the surface in trunking or conduit, or else concealed beneath the surface of the wall either buried within the plaster or inside the cavity of a hollow partition wall. The chosen installation methods and wiring accessories or loads being fed will also dictate whether additional protection by means of 30mA RCDs is required on those circuits or not.

The wiring regulations are open to interpretation in some areas, where reference is made to "minimise inconvenience in the event of a fault", acceptable levels of inconvenience can be somewhat subjective.

In most circumstances the regulations now dictate that a consumer unit will be required to have two or more 30mA RCDs, enabling the load circuits to be spread over a number of RCD protected zones or outgoing ways.

However, the most comprehensive and effective solution, and one that is guaranteed to fully meet the requirements of the regulations is to equip each and every circuit with its own individual 30mA RCBO.

The examples shown on the next page illustrate just some of the many options available, to a contractor, to achieve a 17th Edition compliant installation. Some options provide a much higher level of circuit integrity than others. The final choice of which may well be made based on this and the cost / ease of the installation.

Consumer unit solutions

There are many ways of providing compliance with BS7671 IET wiring regulations using
a new full metal unit in accordance with Regulation 421.1.201.

The most comprehensive solution would be to provide individual RCBO protection on each and every outgoing circuit from a consumer
unit. Hence the use of a consumer unit such as a 12 way isolator controlled board. E.g. **EAS12S** fitted with up to 12 x **RCBOs**.
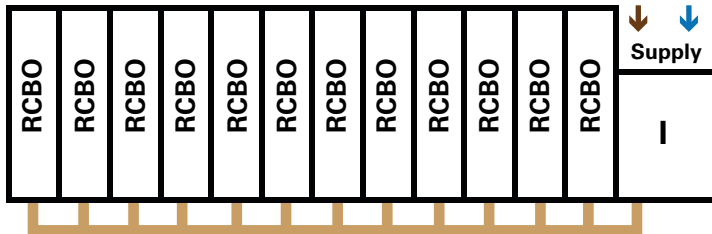
The next level down would be to provide an isolator controlled dual RCD consumer unit feeding two RCD board sections.
E.g. **EAS10H80H80DS** fitted with up to 10 x **MCBs**.
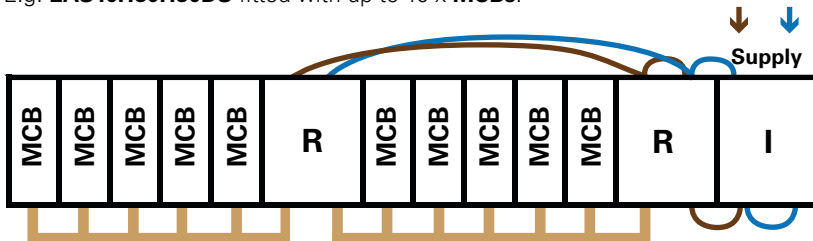
A dual RCD board could also be provided with some unprotected ways controlled by the main switch to enable a supply to any individual
circuits that don't require RCD protection or else require individual RCBO circuit protection. E.g. **EAS14H80H80DS** fitted with up to **14**
devices which can be a mixture of **MCBs** and **RCBOs**.
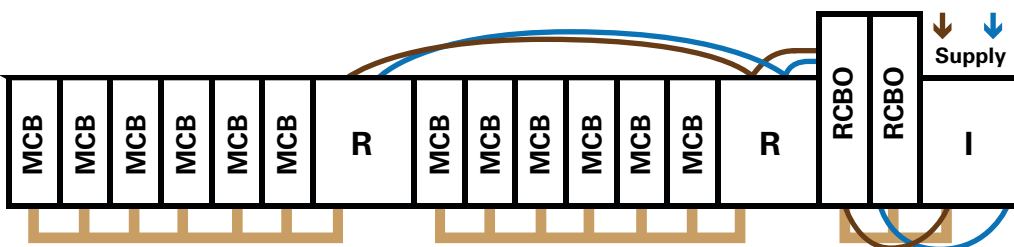
A conventional split load board such as an **EAS10H80DS** could have **RCBOs** fitted to the non-protected side allowing a mixture of Group
RCD protected **MCB** circuits and Individual **RCBO** protected circuits.
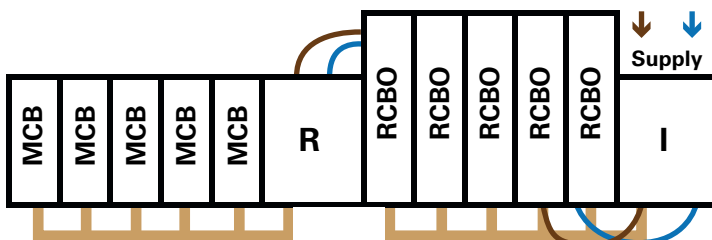
Switch and protection devices

Miniature Circuit Breakers (MCBs)

The Eaton range of 6kA high performance Miniature Circuit Breakers (MCBs) has been designed to meet the latest UK, European and International standards, with ratings from 2A up to 63A as standard.

The Eaton 6kA miniature circuit breakers are designed and tested in accordance with IEC/EN 60898 and are available in both B and C characteristic curve as standard.

Technical characteristics

- Modular design, DIN rail mountable, one module wide.
- Single pole MCB for commercial and residential applications.
- Rated Breaking Capacity 6kA to IEC/EN 60898
- 2–63A in both type B and C characteristics
- Positive contact indication
- Box clamp barrier to prevent incorrect cable insertion
- Calibrated at 40℃
- Can be used with both pin and comb type busbars
- Suitable for use in Eaton consumer units and a wide range of other applications

Residual Current Circuit Breakers (RCCBs)

The Eaton range of Residual Current Circuit Breakers without integral overload protection (RCCBs), provide protection solutions to a wide range of applications.

The Eaton range of double pole RCDs are available with 10mA, 30mA, 100mA and 300mA sensitivities.

Technical characteristics

- Modular design, DIN rail mountable, two modules wide.
- Double pole RCD for commercial and residential applications
- Rated short circuit capacity 10kA with fuse back up
- Manufactured and tested to IEC/EN 61008
- Trip sensitivities 10, 30, 100 and 300mA
- Positive contact indication
- Test button

Compact Residual Current Circuit Breakers with Overcurrent protection (RCBOs)

The Eaton range of combined Residual Current Circuit Breakers with integral Overload protection (RCBOs), combine the highest level of protection for both people and circuits in a single module device.

The Eaton range of 6kA RCBOs are available from 6A to 45A in both B and C curve with 30mA trip sensitivity and fully comply to IEC/EN 61009

Technical characteristics

- New compact modular design, DIN rail mountable, one module wide. Providing significant wiring space above the module.
- Single module combined MCB/RCD unit
- Solid neutral
- Positive contact indication
- Rated currents from 6–45A in both B and C characteristic
- Trip sensitivity 30mA (others available)
- Rated breaking capacity 6kA
- Test button

Main load disconnector switch (isolator)

The Eaton range of modular Isolators are available in single pole, double pole and single pole with switched neutral arrangements.

Technical characteristics

- Compact modular design, DIN rail mountable, one or two modules wide.
- Positive contact indication
- Rated at up to 12.5kA these switches are fully tested to IEC 60947-3 for AC23 duty at 240VAC
- Terminal capacity 2.5–50 mm^2

Single pole & neutral switchfuse

The Eaton wall mounted switchfuse **800KMF** is a fully moulded, compact wall mounted, SP&N unit rated at up to 80A, complying with EN 60947-3 for duty AC22B, 240v AC. The unit is fitted with a fully insulated pull out fuse carrier, which will accommodate HRC fuse links complying with BS 88-3 (formerly BS 1361) and rated between 45–80A.

Control and switching devices

Switches and Twilight Switches

Timers & Twilight Switches are applied in any residential, commercial and industrial buildings wherever automatic control is required on predefined times and/or depending on daylight intensity.

The Eaton range comprises of a wide variety of different products which include analogue Timers, digital Timers, Twilight Switches and Staircase Timers.

These Timers can either be controlled by a 50 Hz netsynchronisation, quartz control and time synchronisation or using the DCF signal or GPS antenna, which guarantees 100% accuracy at all times. Except for net-synchronised timers all units do have self power reserve to secure the time setting and program storage in case a power interruption does occur.

Dedicated computer software and memory cards are available to support the programming of our most advanced timers.

Automatic summer and winter time, holiday and random switching programs complete the functionality of our range.

Twilight Switches are supplied with a remote light sensor, which can be easily installed on the outside wall where the required light intensity threshold can be simply adjusted on the modular device itself.

Technical characteristics (depending on type)

- Modular design.
- Analogue and digital timers.
- Time adjustment by 50 Hz net, quartz control, DCF[1] or GPS signal reception[2]
- Manual override switching function.
- Power reserve for all quartz and DCF or GPS driven switches.
- Remote Light Sensor for Twilight Switching.

Benefits

- Easily programmable on front of device.
- Computer aided programming software available.
- Compact 18 mm design for restricted space opportunities.
- Separate IP40 covers are available for direct wall mounting.
- High level of accuracy.
- Automatic summer and winter time adjustment.
- Holiday & Random program settings.
- High power reserve up to 10 years.

Notes: 1) Automatic calculation of sunrise and sunset times throughout the year, including the possibility of astro times + / -2 hour shift.

2) The DCF-signal can only be received within a 1000 km radius.

Contactors and impulse switches

Contactors are frequently applied for switching of lamp loads, fans or pumps in both utility as well as industrial areas.

Eaton's "CR" contactors are very specific due to the applied operating coil and the construction of the main contacts. All contactors with ac/dc coils ensure silent operation which is further enhanced by a low power consumption.

Optimal contacts and low heat dissipation guarantee a long lifetime of the contactor which is available in a wide range of characteristics.

Technical characteristics

- Designed according to IEC 60947-4-1 and IEC 61095 standards.
- Suitable for applications in general control, heating & lighting applications.
- Available in 20, 25, 40 & 63 A ratings with up to 4-pole contacts.
- Optional add-on auxiliary contact available.
- DIN modular profile.
- Spacers available to extend lifetime (it is recommended to use 1 spacer between every 2 contactors installed).
- Day/night contactors available with manual override function.

Benefits

- Low inrush power for all ac/dc types.
- Availability of combined ac/dc type contactors ensure silent operation.
- Contactors of ac/dc coil type are operable on both ac and dc voltage. The 20 A and 25 A versions are also available with ac coil. All combined ac/dc type versions are equipped with surge protection on the operating coil.
- Equipped with contact indication.
- Optimal quality of contacts and low heat dissipation ensure a long life time.

Transformers

The Eaton bell transformer is a simple two module unit providing a dual voltage output (12V, 0.6A and 8V, 1.0A) and can be used with most commercially available door bells.

Suitable for residential and light commercial applications, Eaton's xComfort RF product range has been specifically designed to provide centralised control of all the electrical equipment in order to maximise energy savings, comfort, safety and security.

- Ideal for new construction and renovation projects
- Numerous functions available e.g. control of lights, blinds, heating, ventilation etc. including status display
- Control by wireless switches, remote control, smart phones and tablets
- Simple to install within an existing installation, no chiselling, no mess, minimal wiring
- Suitable for a wide range of applications, can easily be expanded
- Matches a wide range of wiring accessories and switches
- Little wiring required

Control your house from the other side of the world

Installing an xComfort system with a Smart Home Controller will give you full remote access of anything electrical within the home or controlled environment, from anywhere in the world. Wireless light switches, dimmers and thermostats can be placed anywhere in the house, without having to rely on any cables to connect them up. This provides a good practical level of control enabling zoned control of heating and lighting switched by means of presence detectors, wall switches and programmed events etc. Lights can be controlled to switch on at reduced lux levels to take advantage of external light and save energy.

Master switch gives full control
The system also does away with unsightly cables, as all the switches are wireless and can be placed virtually anywhere, they can indeed also be replaced by hand held remote control units. Operation of the xComfort system can also be triggered by means of its inbuilt time-switch programs that can start and stop various electrical devices as required. That means you can wake up to a pot of freshly brewed coffee every morning, or make sure your heating and lighting is turned on just before you arrive home. Putting devices and appliances under time-switch control also provides extra security, by ensuring these devices are turned off even when you

forget to do it yourself. Simply having a master switch by the entrance can let you switch off all the lights in the house with a single press of a button, and upon return pressing the master ON may just turn on selected preprogrammed lights such as those in the hallway. The use of wireless thermostats, situated in the correct location, in each of the heating zones further ensures that the temperature is always optimal in every room in the house. The additional use of window contacts and wireless input modules will also allow xComfort to be set up so that the heating also responds and switches off when a window is opened and back on again when it is closed.

Control your home from your phone
If you're away from home, xComfort and the Smart Home Controller can now allow you to control all the devices in an installation through a smartphone or a web browser from anywhere in the world.
The system can also alert you to events by SMS or email and you can receive a report containing important information such as a window has been opened or a sensor, such as a temperature sensor, has reached a pre-set limit, enabling you to take control remotely or confirming that xComfort is dealing with the alert locally.
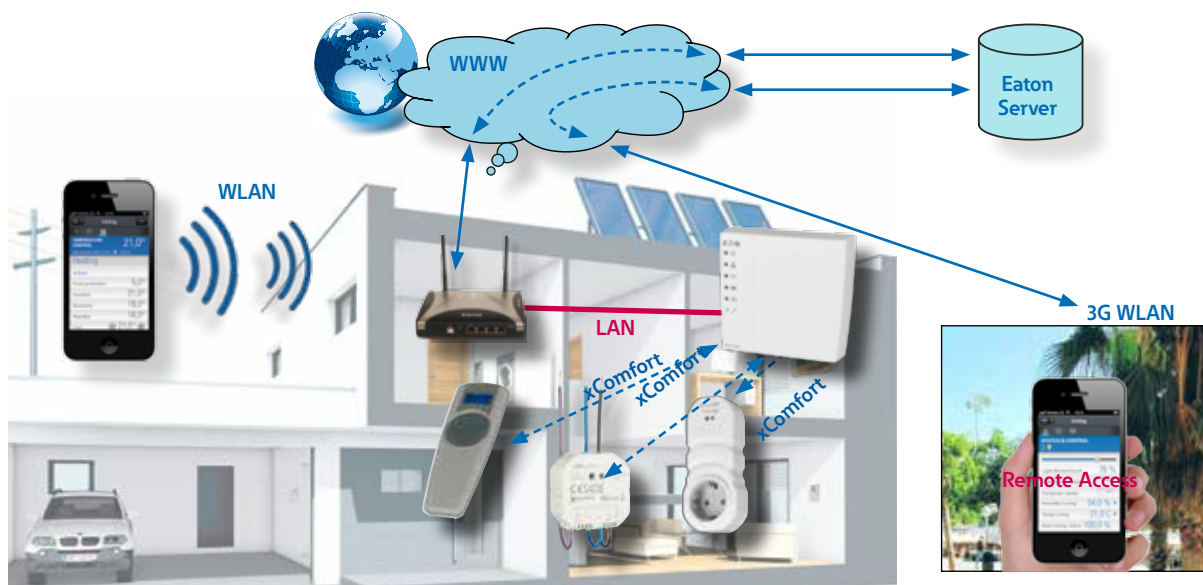
The PREMERA white moulded range offers a modern aesthetically edged styled appearance whilst utilising the well established UREA material with its inherent MRSA germ protection properties ideal for kitchens, bedrooms and living rooms.

Each product is supplied with an optional screw cap facility to hide unsightly screws.

Essential supply products are offered enabling circuits to be highlighted effectively with unmistakable red rockers and fuse drawers without compromising their suiting with other standard accessories. Grey covers are offered to provide solutions to the latest Building Regulations.

P021

10A switches

- To BSEN 60669-1.
- Supplied with M3.5 fixing screws and caps. Each terminal is capable of accepting up to 3 x 1.5mm² conductors. All terminals are backed off, ready to accept cable.
- X-rated for fluorescent or inductive loads.

Description	Eaton list number
10A 1G 1 way	**P011**
10A 2G 1 way	**P012**
10A 3G 1 way	**P013**
10A 4G 1 way	**P014**
10A 1 way bell push	**P015**
10A 1 way light symbol push	**P015L**
10A 1G 1 way push	**P015P**
10A 1G intermediate	**P017**
10A 1G 2 way	**P021**
10A 1G 2 way push	**P021P**
10A 2G 2 way	**P022**
10A 3G 2 way	**P023**
10A 4G 2 way	**P024**
10A 6G 2 way	**P026**

P048

3 Pole isolator switches

- To BSEN 60669-1.

Description	Eaton list number
10A fan isolator + fan symbol	**P048**
10A 3 pole isolator	**P049**

P041

10A broad rocker switches

- To BSEN 60669-1.
- Broad rocker individual modules can be removed for replacement/ maintenance. X-rated for fluorescent or inductive loads.

Description	Eaton list number
10A 2G 2 way half broad switch	**P032**
10A 1G 2 way broad switch	**P041**
10A 1G 2 way push switch	**P041P**
10A 2G 2 way broad switch	**P042**
10A 1G 1 way bell push	**P045**
10A 1G 1W broad switch push	**P045P**
10A 1G intermediate broad switch	**P047**

P450

16A hotel switch

- To BS 60669-1.
- Each terminal is capable of accepting up to 3 x 1.5mm² conductors. Suitable for surface mounting.
- Time delay.

Description	Eaton list number
16A hotel switch	**P450**

P9131

Push on/push off action dimmers

• To BSEN 60669-1.

Description	Eaton list number
250W 1G 2W push universal	**P9131**
250W 2G 2W push universal	**P9132**
400W 1G 2W push universal	**P9141**
400W 2G 2W push universal	**P9142**
1000W 1G 2W push universal (2 gang plate size)	**P9111**
1–10V 1G 1W analogue	**P9101**

P9551

Non-european rotary dimmers

Description	Eaton list number
500W 1G 1W universal non-european	**P9551**
500W 2G 1W universal non-european	**P9552**
1000W 1G 1W universal non-european	**P9511**
60–500W fan controller non-european	**P9751**

P611

13A single pole switched sockets

- To BS 1363: Part 2.
- Terminals capable of accepting up to 3 x 4mm² or 2 x 6mm² conductors.

Description	Eaton list number
13A 1G SP switched socket	**P611**
13A 2G SP switched socket	**P612**

P622

13A double pole switched sockets inboard rockers

- To BS 1363: Part 2.
- 2 earth terminals and inboard rockers.
- Terminals capable of accepting up to 3 x 4mm² or 2 x 6mm² conductors.

Description	Eaton list number
13A 1G DP switched socket	**P621**
13A 1G DP switched socket – grey	**P621GY**
13A 1G DP switched socket + neon	**P621N**
13A 1G DP switched socket + red rockers	**P621RR**
13A 1G DP switched socket red plate cover	**P621RED**
13A 2G DP switched socket	**P622**
13A 2G DP switched socket + neon	**P622N**
13A 2G DP switched socket + red rockers	**P622RR**

P632N

13A double pole switched sockets outboard rockers

- To BS 1363: Part 2.
- 2 earth terminals and outboard rockers.
- Terminals capable of accepting up to 3 x 4mm² or 2 x 6mm² conductors.

Description	Eaton list number
13A 2G DP switched socket	**P632**
13A 2G DP switched socket – grey	**P632GY**
13A 2G DP switched socket + neon	**P632N**
13A 2G DP switched socket + red rockers	**P632RR**
13A 2G DP switched socket – red coverplate	**P632RED**

P651

13A 1G double pole non-standard/clean earth switched sockets

- Non-standard socket interface to BS 5733 with clean earth facility.
- 2 clean earth terminals and 2 standard earth terminals on each product.

Description	Eaton list number
13A 1G DP switched socket	**P651**

P652

13A 2G double pole non-standard/clean earth switched sockets

- Outboard rockers.
- Non-standard socket interface to BS 5733 with clean earth facility.
- 2 clean earth terminals and 2 standard earth terminals on each product.

Description	Eaton list number
13A 2G DP switched socket with 2E terminals	**P652**
13A 2G DP switched socket + red rockers with 2E terminals	**P652RR**

P672

13A 2G double pole clean earth switched sockets

- Outboard rockers.
- Standard socket interface to BS 1363 with clean earth facility.
- 2 clean earth terminals and 2 standard earth terminals on each product.

Description	Eaton list number
13A 2G DP switched socket with 2E terminals	**P672**

P692

13A 2G switched sockets outboard rockers with USB charger outlets

- 2.6A output split over the two USB outlets
- 2 x USB outlets complete with shutters to stop ingress of foreign bodies
- Complies to latest standards for USB sockets BS EN 62368-1:2014
- Complies with EMC standards EN55022, EN55024, EN61000-3-2/3
- 13A sockets comply with BS1363-2

Description	Eaton list number
13A 2G with 2 x USB charger outlets	**P692**

P686

13A double pole RCD socket outlet – passive

- Added protection against electrocution.
- 30mA protection.
- Passive – The contacts on the passive device remain closed when the mains supply is interrupted – this type is suitable for applications such as fridge freezers etc.
- To BS 7288

Description	Eaton list number
13A 2G RCD protected socket passive 30mA	**P686**

P111

13A socket outlets

- To BS 1363: Part 2.
- Terminals capable of accepting up to 3 x 4mm^2 or 2 x 6mm^2 conductors.
- 2 earth terminals on P112.

Description	Eaton list number
13A 1G unswitched socket	**P111**
13A 2G unswitched socket	**P112**

P415

15A socket outlet

- To BS 546.

Description	Eaton list number
15A 1G switched socket	**P415**

P370

Shaver supply unit

- To BSEN 61558-2-5.
- Mounting box – **F4530** (46mm deep).

Description	Eaton list number
Shaver socket dual voltage 230V/110V AC	**P370**

P221N

13A double pole fused connection units with optional cable outlets – switched

- To BS 1363: Part 4.
- Live and Neutral accept 2 x 2.5mm² cables. Suitable for surface mounting.
- P212 adaptor plate for use with bottom entry cable outlet.

Description	Eaton list number
13A DP switched connection unit	**P221**
13A DP switched connection unit marked 'boiler'	**P221BO**
13A DP switched connection unit marked 'central heating'	**P221CH**
13A DP switched connection unit marked 'cooker hood'	**P221CKH**
13A DP switched connection unit marked 'dishwasher'	**P221DW**
13A DP switched connection unit – grey	**P221GY**
13A DP switched connection unit marked 'extract fan'	**P221EF**
13A DP switched connection unit marked 'refrigerator'	**P221R**
13A DP switched connection unit + red rocker	**P221RR**
13A DP switched connection unit marked 'washing machine'	**P221WM**
13A DP switched connection unit + neon	**P221N**
13A DP switched connection unit + neon – grey	**P221NGY**
13A DP switched connection unit + neon marked "refrigerator"	**P221NR**
13A DP switched connection unit + neon + red fuse drawer	**P221NRR**
13A DP switched connection unit + neon marked 'water heater'	**P221NWH**
13A DP switched connection unit + neon marked 'washing machine'	**P221NWM**
13A DP switched connection unit fitted with 3A fuse	**P224**

P220

13A fused connection units with optional cable outlets – unswitched

- To BS 1363: Part 4.
- Live and Neutral accept 2 x 2.5mm² cables. Suitable for surface mounting.
- P212 adaptor plate for use with bottom entry cable outlet.

Description	Eaton list number
13A unswitched connection unit	**P220**
13A unswitched connection unit + red fuse drawer	**P220RR**
13A unswitched connection unit + neon	**P220N**
13A unswitched connection unit fitted + 3A fuse	**P223**
13A unswitched connection unit + neon fitted with 3A fuse	**P223N**

P401N

20A double pole switches with optional cable outlet

- To BSEN 60669-1.
- Supply terminals accept 3 x 2.5mm^2 conductors. Load terminals accept 2 x 2.5mm^2 conductors.
- P212 adaptor plate for use with bottom entry cable outlet.

Description	Eaton list number
20A DP switch	**P401**
20A DP switch marked 'water heater'	**P403**
20A DP switch + neon	**P401N**
20A DP switch + neon marked 'water heater'	**P403N**
20A DP switch + neon marked 'air conditioner'	**P404N**

P425N

45A double pole cooker control unit

- To BS 4177.

Description	Eaton list number
45A DP cooker control unit	**P425**
45A DP cooker control unit + neon	**P425N**

P421N

50A double pole switches

- To BSEN 60669-1.

Description	Eaton list number
50A DP switch 2G plate	**P421**
50A DP switch + neon 2G plate	**P421N**
50A DP switch marked 'cooker' 2G plate	**P423**
50A DP switch + neon marked 'cooker' 2G plate	**P423N**
50A DP switch + neon marked 'air conditioner' 2G plate	**P424N**
50A DP switch + neon 1G plate size	**P422N**
50A DP switch + neon 1G plate size – grey	**P422NGY**
50A DP switch + neon 1G plate size marked 'cooker'	**P426N**
50A DP switch + neon 1G plate size marked 'air conditioner'	**P427N**

P345

Cable/cooker outlet plates

- To BS 5733.

Description	Eaton list number
45A DP cable outlet with terminal block	**P345**
20A flex outlet plate	**P210**
Cable outlet adaptor plate for 20A switch/13A fused connection unit	**P212**

P212

P392

Blank plates

Description	Eaton list number
1 gang blank plate	**P391**
2 gang blank plate	**P392**

Accessories

Description	Eaton list number
Spare screw caps – PREMERA	**P999**

P362

Telephone outlets

Description	Eaton list number
1G telephone outlet single master	**P360**
1G telephone outlet single secondary	**P361**
1G telephone outlet single RJ11	**P362**

P352

TV/FM co-axial outlets

• **P353** and **P354** isolated outlets for use in multi-outlet aerial systems. Suitable for full band width 40–860MHz. Single outlet TV/FM isolated co-axial socket suitable for 'T' box use with a single co-axial lead. Isolated 2 gang TV/FM diplexer socket double resistive outlet suitable for TV/FM and 'T' box use with a single co-axial down lead.

Description	Eaton list number
1G TV co-axial outlet	**P351**
1G TV co-axial outlet dual clamp	**P351D**
2G TV co-axial outlet	**P352**
1G TV/FM isolated co-axial outlet	**P353**
2G TV/FM diplexer co-axial outlet	**P354**

P356

TV and satellite co-axial outlets

• Suitable for full band width 40–860MHz.

Description	Eaton list number
1G SAT outlet	**P355**
2G TV/SAT outlet	**P356**

P357

Screened TV/FM/radio/satellite co-axial outlets

• Suitable for full band width 40-860MHz. Will accept digital IR return signal through TV point.

Description	Eaton list number
2G TV/radio outlet screened	**P357**

F4501

Mounting boxes

Description	Eaton list number
1G pattress 16mm deep	**F4500**
1G pattress 28mm deep	**F4501**
2G pattress 28mm deep	**F4502**
2G conversion pattress 25mm deep	**F4510**
2G pattress 40mm deep with cable clamp	**F4511**
2G pattress 46mm deep for shaver supply unit	**F4530**
1G pattress 45mm deep	**F4570**

F3368

Ancillary products

Description	Eaton list number
13A non-standard plug	**F3368**
10W connection box	**F5099**

P903

Modular coverplates

- Suitable for use with PREMERA mix module range.

- Dimensions: 1–2G: 86mm x 86mm 3–4G: 86mm x 146mm 6–8G: 146mm x 150mm
  12G: 150mm x 210mm 18G: 210mm x 210mm 24G: 210mm x 270mm

- Supplied complete with mounting frames/earth straps.

Description	Eaton list number
1G module coverplate moulded c/w earth strap	**P901**
2G module coverplate moulded c/w earth strap	**P902**
3G module coverplate moulded c/w earth strap	**P903**
4G module coverplate moulded c/w earth strap	**P904**
6G module coverplate moulded c/w mounting frame	**P906**
8G module coverplate moulded c/w mounting frame	**P908**
12G module coverplate moulded c/w mounting frame	**P912**
18G module coverplate c/w mounting frame – clip-on cover	**C918** + **CP918WH**
24G module coverplate c/w mounting frame – clip-on cover	**C924 + CP924WH**
1G modular coverplate moulded – grey c/w earth strap	**P901GY**
2G modular coverplate moulded – grey c/w earth strap	**P902GY**
3G modular coverplate moulded – grey c/w earth strap	**P903GY**
4G modular coverplate moulded – grey c/w earth strap	**P904GY**
6G modular coverplate assembly moulded – grey c/w mounting frame	**P906GY**
8G modular coverplate assembly moulded – grey c/w mounting frame	**P908GY**

PREMERA mix is a modular interface grid system combining the benefits of a traditional grid range, a voice and data range, power sockets, broad switches and intelligent RF switch modules.

Offering up to 24 module size plates with endless combinations, PREMERA mix also includes radio frequency switching capabilities as part of Eaton's xComfort range enabling one product platform to fit all.

PREMERA mix specification guide
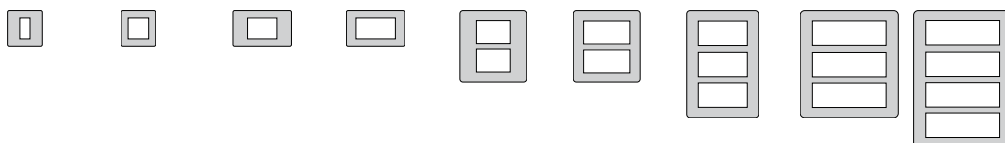
Range/finish	Eaton list number 1 module	2 module	3 module	4 module	6 module	8 module	12 module	18 module	24 module
PREMERA white	P901	P902	P903	P904	P906	P908	P912	C918 + CP918WH	C924 + CP924WH
PREMERA grey	P901GY	P902GY	P903GY	P904GY	P906GY	P908GY	–	–	–
COPA c/w white cover	C901WH	C902WH	C903WH	C904WH	–	–	–	–	–
COPA interior	C901	C902	C903	C904	C906	C908	C912	C918	C924
COPA interior black	C901B	C902B	C903B	C904B	C906B	C908B	C912B	C918B	C924B
COPA plastic covers[1]	CP901*	CP902*	CP903*	CP904*	CP906*	CP908*	CP912*	CP918*	CP924*
COPA metal covers[2]	CM901*	CM902*	CM903*	CM904*	CM906*	CM908*	CM912*	CM918*	CM924*
COPA fix plates – SS	B901SS	B902SS	B903SS	B904SS	B906SS*	B908SS*	B912SS*	B918SS*	B924SS*
XTRA surface range	X901MG	X902MG	X903MG	X904MG	X906MG	X908MG	X912MG	X918MG	X924MG
Back boxes									
Flush boxes – Metal	35mm deep	35mm deep	35mm deep	35mm deep	F8342	F8342	F8343	F8344	F8345
Surface metal boxes for Xtra plates									
– with knockouts	FM8340	FM8340	FM8341	FM8341	F8342	F8342	F8343	F8344	F8345
– without knockouts	FM8349	FM8349	FM8350	FM8350	F8351	F8351	F8352	–	–
Surface moulded boxes	F4501	F4501	F4502	F4502	–	–	–	–	–

Notes: Items supplied complete with all the mounting frames unless stated.
*Covers only – need to order interior – white or black (eg **C901** or **C901B**).

PREMERA mix plate dimensions

	1 gang	2 gang	3 gang	4 gang	6 gang	8 gang	12 gang	18 gang	24 gang
PREMERA									
Eaton list number:	P901	P902	P903	P904	P906	P908	P912	–	–
	P901GY	P902GY	P903GY	P904GY	P906GY	P908GY	–	–	–
Plate dimensions:	86 x 86mm	86 x 86mm	146 x 86mm	146 x 86mm	146 x 150mm	146 x 150mm	146 x 210mm	–	–
COPA interiors									
Eaton list number:	C901	C902	C903	C904	C906	C908	C912	C918	C924
	C901B	C902B	C903B	C904B	C906B	C908B	C912B	C918B	C924B
Plate dimensions:	84 x 84mm	84 x 84mm	145 x 84mm	145 x 84mm	142 x 142mm	142 x 142mm	142 x 207mm	203 x 207mm	203 x 267mm
COPA & COPA fix plates									
Eaton list number:	C901WH	C902WH	C903WH	C904WH	–	–	–	–	–
	CP901[1]	CP902[1]	CP903[1]	CP904[1]	CP906[1]	CP908[1]	CP912[1]	CP918[1]	CP924[1]
	CM901[2]	CM902[2]	CM903[2]	CM904[2]	CM906[2]	CM908[2]	CM912[2]	CM918[2]	CM924[2]
	B901SS	B902SS	B903SS	B904SS	B906SS	B908SS	B912SS	B918SS	B924SS
Plate dimensions:	87 x 87mm	87 x 87mm	148 x 87mm	148 x 87mm	146 x 150mm	146 x 150mm	146 x 210mm	206 x 210mm	206 x 270mm
Xtra plates									
Eaton list number:	X901MG	X902MG	X903MG	X904MG	X906MG	X908MG	X912MG	X918MG	X924MG
Plate dimensions:	86 x 86mm	86 x 86mm	148 x 87mm	148 x 87mm	137 x 137mm	137 x 137mm	137 x 195mm	200 x 198mm	198 x 257mm

[1]Plastic covers available in the following finishes

Finish	add suffix to end of part number	Example of product code
White	WH	CP904WH
Metallic silver	SV	CP904SV
Gold metallic	GL	CP904GL
Black matt	BM	CP904BM

[2]Metal plates available in the following finishes

Finish	add suffix to end of part number	Example of product code
Stainless steel	SS	CM904SS
Highly polished	HP	CM904HP
Satin bronze	SB	CM904SB
Polished brass	PB	CM904PB

F9004

10A switches

- To BSEN60669-1.

Description	Eaton list number		
	White module	Black module	Red rocker
10A 1 way	F9000	–	–
10A 2 way	F9001	F9001B	–
10A 2 way push to make	F9004	F9004B	–

F9021RR

20A switches

- To BSEN60669-1.

Description	Eaton list number		
	White module	Black module	Red rocker
20A 1 way	F9020	F9020B	–
20A 2 way	F9021	F9021B	F9021RR
20A intermediate switch	F9022	F9022B	–

F9023

20A double pole switches

- To BSEN60669-1.

Description	Eaton list number		
	White module	Black module	Red rocker
20A double pole	F9023	F9023B	F9023RR
20A double pole push to break	F9029	–	F9029RR
20A double pole push to make	F9030	F9030B	F9030RR
20A 2 way centre off	F9024	F9024B	F9024RR
20A 2 way centre off bias	F9033	F9033B	F9033RR

F9023WM

20A double pole switches – legends

- To BSEN60669-1.

Description	Eaton list number		
	White module	Black module	Red rocker
20A double pole marked 'boiler'	F9023BO	–	–
20A double pole marked 'cooker hood'	F9023CH	–	–
20A double pole marked 'dishwasher'	F9023DW	–	–
20A double pole marked 'extract fan'	F9023EF	–	–
20A double pole marked 'fridge freezer'	F9023FF	–	–
20A double pole marked 'fridge'	F9023FG	–	–
20A double pole marked 'freezer'	F9023FZ	–	–
20A double pole marked 'hob'	F9023HB	–	–
20A double pole marked 'hob hood'	F9023HH	–	–
20A double pole marked 'light '	F9023LI	–	–
20A double pole marked 'microwave'	F9023MW	–	–
20A double pole marked 'oven'	F9023OV	–	–
20A double pole marked 'plinth heater'	F9023PH	–	–
20A double pole marked 'tumble dryer'	F9023TD	–	–
20A double pole marked 'towel rail'	F9023TR	–	–
20A double pole marked 'washer dryer'	F9023WDR	–	–
20A double pole marked 'water heater'	F9023WH	–	–
20A double pole marked 'washing machine'	F9023WM	–	–

F9025

20A double pole switches with neon

- To BSEN60669-1.

Description	Eaton list number		
	White module	Black module	Red rocker
20A double pole with indicator	F9025	F9025B	–

F9025HE

20A double pole switches with neon – legends

- To BSEN60669-1.

Description	Eaton list number		
	White module	Black module	Red rocker
20A double pole + neon marked 'boiler'	F9025BO	–	–
20A double pole + neon marked 'cooker hood'	F9025CH	–	–
20A double pole + neon marked 'dishwasher'	F9025DW	–	–
20A double pole + neon marked 'extract fan'	F9025EF	–	–
20A double pole + neon marked 'fridge freezer'	F9025FF	–	–
20A double pole + neon marked 'fridge'	F9025FG	–	–
20A double pole + neon marked 'hob'	F9025HB	–	–
20A double pole + neon marked 'heater'	F9025HE	–	–
20A double pole + neon marked 'microwave'	F9025MW	–	–
20A double pole + neon marked 'plinth heater'	F9025PH	–	–
20A double pole + neon marked 'tumble dryer'	F9025TD	–	–
20A double pole + neon marked 'washer dryer'	F9025WDR	–	–
20A double pole + neon marked 'water heater'	F9025WH	–	–
20A double pole + neon marked 'wachine machine'	F9025WM	–	–

F9032

16A twin switches

- To BSEN60669-1.

Description	Eaton list number		
	White module	Black module	Red rocker
16A 1 way twin switch module	F9032	–	–

F9201B

10A broad rocker switches

- 50mm x 50mm modules.
- To BSEN60669-1.

Description	Eaton list number		
	White module	Black module	Red rocker
10A 2 way broad rocker	F9201	F9201B	–
10A 2 way broad rocker push to make	F9204	F9204B	–

F9225

20A broad rocker switches

- 50mm x 50mm modules.
- To BSEN60669–1.

Description	Eaton list number		
	White module	Black module	Red rocker
20A 2 way broad rocker	F9221	–	–
20A intermediate broad rocker switch	F9222	–	–
20A double pole broad rocker	F9223	–	–
20A double pole broad rocker indicator	F9225	–	–
20A 2 way centre off broad rocker	F9224	–	–
20A 2 way centre off bias broad rocker	F9233	–	–

F9027RR

20A key switches

- To BSEN60669–1.

Description	Eaton list number		
	White module	Black module	Red rocker
20A key switch 2 way	F9026	F9026B	–
20A key switch 2 way printed with 'emergency lighting test charge'	F9026EL	F9026BEL	–
20A key switch double pole	F9027	F9027B	F9027RR
20A key switch double pole printed with 'emergency lighting test charge'	F9027EL	F9027BEL	–
20A key switch double pole with indicator	F9027N	F9027NB	–
20A key switch 2 way centre off bias	F9028	F9028B	–
20A key switch intermediate	F9031	F9031B	–

F9063

F9072

Ancillary items

Description	Eaton list number		
	White module	Black module	Red rocker
Red neon 230V	**F9061**	**F9061B**	–
Red filament lamp 24V	**F9061/24V**	–	–
Amber neon 230V	**F9062**	–	–
Amber neon 24V	**F9062/24V**	–	–
Green neon 230V	**F9063**	–	–
Green neon 24V	**F9063/24V**	–	–
13A fuse module[1]	**F9072**	**F9072B**	**F9072RR**
Cable outlet 20A[1]	**F9073**	**F9073B**	–
Buzzer	**F9076**	–	–
Replacement key	**F9099**	–	–
Blank[1]	**F9060**	**F9060B**	–

[1] To BS5733

F9064

Dimmer modules

Description	Eaton list number	
	White module	Black module
250W dimmer universal push on/off 2 way[1]	F9064	F9064B
400W dimmer universal push on/off 2 way[1]	F9065	F9065B
500W dimmer (50mm x 50mm) push on/off 2 way[1]	F9066	F9066B
1000W dimmer non-european (50mm x 50mm) push on/off 2 way	F9077	F9077B
1–10V dimmer push on/off 1 way[1]	F9078	F9078B
60–500W fan controller – non-euro rotary 1 way	F9079	F9079B

[1] To BSEN60669-2-1

F9313

Socket modules

• 50mm x 50mm modules.

Description	Eaton list number	
	White module	Black module
5A 3 pin shuttered socket[1]	**F9306**	**F9306B**
13A 3 pin socket module 2 earth terminals[2]	**F9313**	**F9313B**
13A 3 pin non standard socket 2 earth terminals	**F9314**	**F9314B**
15A 3 pin shuttered socket[1]	**F9315**	**F9315B**
16A Schuko socket[3]	**F9317**	**F9317B**
15A 3 pin 127v SASO socket[4]	**F9318**	**F9318B**

[1] To BS546
[2] To BS1363 Part 2
[3] To IEC60884-1
[4] To BS5733:2010

F3784

Communication modules

Description	Eaton list number White module	Black module
Single IEC co-axial (female) screened	**F3780**	**F3780B**
Single IEC co-axial (male) screened	**F3781**	**-**
Single satellite (female) connection screened	**F3782**	**-**
TV/radio/satellite/return module screened (50mm X 50mm)	**F3783**	**F3783B**
Telephone (BT secondary)	**F3784**	**F3784B**
Telephone (BT master)	**F3785**	**-**
RJ11 outlet	**F3786**	**-**
RJ45 CAT 6	**F3787**	**F3787B**
1G module blank[1]	**F3790**	**F3790B**

[1] To BS5733

F9401

Premera xComfort RF switch modules

• See xComfort section for more information.

Description	Eaton list number White module
xComfort RF module surface mounting plate (will accept any CP902 type of plate – not supplied)	**F9400**
xComfort 1G RF switch module	**F9401**
xComfort 2G RF switch module	**F9402**
xComfort 4G RF switch module	**F9404**

CSAU-01/01

xComfort actuators: examples

• See xComfort section for details of actuators and other RF devices for use with Premera RF switch modules.

Description	Eaton list number White module
xComfort 8A SP switching actuator	**CSAU-01/02**
xComfort 250W dimming actuator	**CDAU-01/02**

F8344

Grid boxes

- To BS5733.

Description	Eaton list number
1 and 2 gang grid box surface	**FM8340**
3 and 4 gang grid box surface	**FM8341**
6 and 8 gang grid box flush or surface	**F8342**
12 gang grid box flush or surface	**F8343**
18G grid box flush or surface	**F8344**
24G grid box flush or surface	**F8345**
1 and 2 gang grid box no knockouts surface	**FM8349**
3 and 4 gang grid box no knockouts surface	**FM8350**
Gridswitch box 6 & 8 gang – no knockouts flush or surface	**F8351**
9 and 12 gang grid box no knockouts flush or surface	**F8352**

Note: PREMERA Mix modules/plates (1–4 gang) fit industry standard 35mm standard flush metal boxes

PREMERA proof is a range of weatherproof accessories offering IP66 protection for outdoor or more arduous environments.

The range provides extensive combinations by utilising the 1 and 2 gang IP66 enclosures whilst delivering on aesthetic appeal.

P722

IP66 switches

Description	Eaton list number
1G 10A 2W bell push + neon IP66	**P715**
1G 16A 2W switch + neon IP66	**P721**
2G 16A 2W switch + neon IP66	**P722**
1G 20A DP + neon IP66	**P741**
2G 20A DP switch + neon IP66	**P742**

P762

IP66 enclosures

- Will accept most standard PREMERA 1 gang or 2 gang products.

- Enclosures must be ordered with equivalent number of PREMERA products.

Description	Eaton list number
1G IP66 enclosure	**P761**
2G IP66 enclosure	**P762**

P771

IP56 switch socket

Description	Eaton list number
13A 1G switched socket IP56	**P771**

COPA is Eaton's flexible 'Clip On' Plate Accessory range designed with innovative, slim and stylish 'clip-on' face plates that conceal the screw fixing holes to give a superior elegance to the finish of the product. The decorative face plates are available in a selection of styles available in both high quality decorative plastic and luxury metal finishes.

5　COPA clip-on plate accessory range

C012

CM012SS

C012 + CM012SS

10A switches

- To BSEN 60669-1.
- Minimum back box depth = 25mm.

Description	Eaton list number White interior c/w white cover	White interior	Black interior	Decorative plate option	Metallic plate option	White cover
10A 1G 1 way	C011WH	C011	C011B	CP011[1]	CM011[2]	CP011WH
10A 2G 1 way	C012WH	C012	C012B	CP012[1]	CM012[2]	CP012WH
10A 3G 1 way	C013WH	C013	C013B	CP013[1]	CM013[2]	CP013WH
10A 4G 1 way	C014WH	C014	C014B	CP014[1]	CM014[2]	CP014WH
10A 1G 1 way retractive switch with light symbol	C015LWH	C015	C015B	CP015L[1]	CM015L[2]	CP015LWH
10A 1G 1 way retractive switch with bellpush symbol	C015WH	C015	C015B	CP015[1]	CM015[2]	CP015WH
10A intermediate switch	C017WH	C017	C017B	CP011[1]	CM011[2]	CP011WH
10A 1G 2 way	C021WH	C021	C021B	CP011[1]	CM011[2]	CP011WH
10A 2G 2 way	C022WH	C022	C022B	CP012[1]	CM012[2]	CP012WH
10A 3G 2 way	C023WH	C023	C023B	CP013[1]	CM013[2]	CP013WH
10A 4G 2 way	C024WH	C024	C024B	CP014[1]	CM014[2]	CP014WH
10A 6G 2 way	C026WH	C026	C026B	CP026[1]	CM026[2]	CP026WH

C041

10A broad rocker switches

- To BSEN 60669-1.
- Minimum back box depth = 25mm.

Description	Eaton list number White interior c/w white cover	White interior	Black interior	Decorative plate option	Metallic plate option	White cover
10A 2G 2 way half broad switch	C032WH	C032	–	CP013[1]	CM013[2]	CP013WH
10A 1G 2 way broad switch	C041WH	C041	C041B	CP013[1]	CM013[2]	CP013WH
10A 1G 1 way broad switch bellpush	C045WH	–	C045B	–	CM045[2]	–
10A intermediate broad switch	C047WH	–	C047B	CP013[1]	CM013[2]	CP013WH
10A 3 pole broad rocker fan isolator	C048WH	C048	C048B	CP048[1]	CM048[2]	CP048WH
10A 3 pole broad rocker isolator	C049WH	C048	C048B	–	CM049[2]	–

C9132WH

Push on/push off action dimmers

- To BSEN 60669-1-1.
- Minimum back box depth = 35mm.

Description	Eaton list number White interior c/w white cover	White interior	Decorative plate option	Metallic plate option	White cover
250W 1G 2 way	C9131WH	–	CP9131[1]	CM9131[2]	CP9131WH
250W 2G 2 way	C9132WH	C9132	CP9132[1]	CM9132[2]	CP9132WH
400W 1G 2 way	C9141WH	–	CP9131[1]	CM9131[2]	CP9131WH
1000W 1G 2way – 2 gang size coverplate	C9111WH	–	CP9111[1]	CM9111[2]	CP9111WH

[1]Plastic covers available in the following finishes

Finish	add suffix to end of part number	Example of product code
White	WH	CP011WH
Metallic silver	SV	CP011SV
Gold metallic	GL	CP011GL
Black matt	BM	CP011BM

[2]Metal plates available in the following finishes

Finish	add suffix to end of part number	Example of product code
Stainless steel	SS	CM011SS
Highly polished	HP	CM011HP
Satin bronze	SB	CM011SB
Polished brass	PB	CM011PB

C9551WH

Rotary tungsten dimmers

• These dimmers are produced for **non-european countries**.

• Minimum back box depth = 35mm.

Description	Eaton list number White interior c/w white cover	White interior	Decorative plate option	Metallic plate option	White cover
500W 1G 1 way	**C9551WH**	C9551	**CP9131**[1]	**CM9131**[2]	**CP9131WH**
500W 2G 1 way	**C9552WH**	C9552	**CP9132**[1]	**CM9132**[2]	**CP9132WH**
500W 1G 1 way fan controller	**C9751WH**	–	**CP9131**[1]	**CM9131**[2]	**CP9131WH**
1000W 1G 1way	**C9511WH**	C9511	**CP9131**[1]	**CM9131**[2]	**CP9131WH**

A9900PB

A9900SS

Alternative dimmer knobs

Description	Eaton list number
Dimmer knob – highly polished	**A9900HP**
Dimmer knob – polished brass	**A9900PB**
Dimmer knob – stainless steel	**A9900SS**

[1]**Plastic covers available in the following finishes**

Finish	add suffix to end of part number	Example of product code
White	**WH**	**CP9131WH**
Metallic silver	**SV**	**CP9131SV**
Gold metallic	**GL**	**CP9131GL**
Black matt	**BM**	**CP9131BM**

[2]**Metal plates available in the following finishes**

Finish	add suffix to end of part number	Example of product code
Stainless steel	**SS**	**CM621NSS**
Highly polished	**HP**	**CM621NHP**
Satin bronze	**SB**	**CM621NSB**
Polished brass	**PB**	**CM621NPB**

C622WH

13A switched socket outlets

- To BS 1363: Part 2.
- Minimum back box depth = 25mm.
- Terminals capable of accepting up to 3 x 4mm^2 or 2 x 6mm^2 conductors.
- Double pole with 2 earth terminals

Description	Eaton list number White interior c/w white cover	White interior	Black interior	Decorative plate option[1]	Metallic plate option[2]	White cover
13A 1G DP switched socket 2E term	C621WH	C621	C621B	CP621[1]	CM621[2]	CP621WH
13A 1G DP switched socket 2E term + neon	C621NWH	C621N	C621NB	–	CM621N[2]	–
13A 2G DP switched socket 2E term	C622WH	C622	C622B	CP622[1]	CM622[2]	CP622WH
13A 2G DP switched socket 2E term + neon	C622NWH	C622N	C622NB	–	CM622N[2]	–
13A 2G DP switched socket 2E term	C622WH	C622	C622B	CP622[1]	CM622[2]	CP622WH
13A 2G DP switched socket 2E term outboard rockers	C632WH	C632	C632B	CP632[1]	CM632[2]	CP632WH
13A 1G DP switched socket 2E term non standard	C651WH	–	C651B	CP621[1]	CM621[2]	CP621WH
13A 2G DP switched socket 2E term non standard	C652WH	–	–	CP632[1]	CM632[2]	CP652WH

C692WH

13A 2G switched sockets outboard rockers with USB charger outlets

- 2.6A output split over the two USB outlets
- 2 x USB outlets complete with shutters to stop ingress of foreign bodies
- Complies to latest standards for USB sockets BS EN 62368-1:2014
- Complies with EMC standards EN55022, EN55024, EN61000-3-2/3
- 13A sockets comply with BS1363-2

Description	Eaton list number White interior c/w white cover	White interior	Black interior	Decorative plate option[1]	Metallic plate option[2]	White cover
13A 2G with 2 x USB charger outlets	C692WH	–	C692B	CP692[1]	CM692[2]	–

C111WHa

13A unswitched socket outlets

- To BS 1363: Part 2.
- Minimum back box depth = 25mm.
- Terminals capable of accepting up to 3 x 4mm^2 or 2 x 6mm^2 conductors.
- CP and CM coverplate on C111 item all end with an 'a'

Description	Eaton list number White interior c/w white cover	White interior	Black interior	Decorative plate option[1]	Metallic plate option[2]	White cover
13A 1G unswitched socket	C111WHa	C111a	C111ba	CP111[1]	CM111[2]	CP111WHa
13A 2G unswitched socket	C112WH	–	C112B	CP112[1]	CM112[2]	CP112WH

[1]Plastic covers available in the following finishes

Finish	add suffix to end of part number	Example of product code
White	WH	CP621NWH
Metallic silver	SV	CP621NSV
Gold metallic	GL	CP621NGL
Black matt	BM	CP621NBM

[2]Metal plates available in the following finishes

Finish	add suffix to end of part number	Example of product code
Stainless steel	SS	CM621NSS
Highly polished	HP	CM621NHP
Satin bronze	SB	CM621NSB
Polished brass	PB	CM621NPB

C415WH

15A socket outlets

- To BS 546.

- Minimum back box depth = 35mm.

- Terminals capable of accepting up to 3 x 4mm² or 2 x 6mm² conductors.

| Description | Eaton list number | | | | | |
	White interior c/w white cover	White interior	Black interior	Decorative plate option	Metallic plate option	White cover
15A 1G SP switched socket	**C415WH**	–	**C415B**	**CP415**[1]	**CM415**[2]	**CP415WH**

C370B

230V/115V AC shaver socket

- To BSEN 61558-2-5.

- Minimum back box depth = 47mm.

| Description | Eaton list number | | | | | |
	White interior c/w white cover	White interior	Black interior	Decorative plate option	Metallic plate option	White cover
Shaver socket dual voltage	**C370WH**	**C370**	**C370B**	**CP370**[1]	**CM370**[2]	**CP370WH**

[1]**Plastic covers available in the following finishes**

Finish	add suffix to end of part number	Example of product code
White	**WH**	**CP415WH**
Metallic silver	**SV**	**CP415SV**
Gold metallic	**GL**	**CP415GL**
Black matt	**BM**	**CP415BM**

[2]**Metal plates available in the following finishes**

Finish	add suffix to end of part number	Example of product code
Stainless steel	**SS**	**CM415SS**
Highly polished	**HP**	**CM415HP**
Satin bronze	**SB**	**CM415SB**
Polished brass	**PB**	**CM415PB**

C221NWH

13A fused connection units

- To BS 1363: Part 4.
- Minimum back box depth = 25mm.
- Terminals capable of accepting up to 3 x 4mm² or 2 x 6mm² conductors.
- Use **C212** for bottom entry cable outlet.

Description	Eaton list number White interior c/w white cover	White interior	Black interior	Decorative plate option	Metallic plate option	White cover
13A fused connection unit	**C220WH**	**C220**	**C220B**	**CP220**[1]	**CM220**[2]	**CP220WH**
13A fused connection unit + neon	**C220NWH**	**C220N**	**C220NB**	**CP220N**[1]	**CM220N**[2]	**CP220NWH**
13A fused switched connection unit	**C221WH**	**C221**	**C221B**	**CP221**[1]	**CM221**[2]	**CP221WH**
13A fused switched connection unit 'refrigerator'	–	**C221**	–	–	–	**CP221RWH**
13A fused switched connection unit 'washing machine'	–	**C221**	–	–	–	**CP221WMWH**
13A fused switched connection unit + neon	**C221NWH**	**C221N**	**C221NB**	**CP221N**	**CM221N**	**CP221NWH**
13A fused switched connection unit + neon 'refrigerator'	–	**C221N**	**C221NB**	**CP221NR**[1]	–	**CP221NRWH**
13A fused switched connection unit + neon 'washing machine'	–	**C221N**	**C221NB**	**CP221NWM**[1]	–	**CP221NWMWH**

C212

Adaptor plate

Description	Eaton list number
Cable outlet adaptor plate	**C212**

[1]Plastic covers available in the following finishes

Finish	add suffix to end of part number	Example of product code
White	**WH**	**CP220WH**
Metallic silver	**SV**	**CP220SV**
Gold metallic	**GL**	**CP220GL**
Black matt	**BM**	**CP220BM**

[2]Metal plates available in the following finishes

Finish	add suffix to end of part number	Example of product code
Stainless steel	**SS**	**CM220SS**
Highly polished	**HP**	**CM220HP**
Satin bronze	**SB**	**CM220SB**
Polished brass	**PB**	**CM220PB**

COPA clip-on plate accessory range
Power switches

C401NWH

20A switches

- To BSEN 60669-1.
- Minimum back box depth = 25mm.
- Use cable adaptor plate C212 for bottom entry cable outlet.

Description	Eaton list number					
	White interior c/w white cover	White interior	Black interior	Decorative plate option	Metallic plate option	White cover
20A DP switch + neon	C401NWH	C401N	C401NB	CP401N[1]	CM401N[2]	CP401NWH
20A DP control switch	C401WH	C401	C401B	CP401[1]	CM401[2]	CP401WH
20A DP switch + neon marked 'water heater'	C403NWH	C401N	C401NB	–	CM403N[2]	–
20A DP switch marked 'water heater'	C403WH	C401	C401B	CP403[1]	CM403[2]	CP403WH

C422NWH

50A switches

- Minimum back box depth = 47mm.
- To BSEN 60669-1.

Description	Eaton list number					
	White interior c/w white cover	White interior	Black interior	Decorative plate option	Metallic plate option	White cover
50A DP switch + neon	C421NWH	C421N	C421NB	CP421N[1]	CM421N[2]	CP421NWH
50A DP switch + neon 1G plate size	C422NWH	C422N	C422NB	CP422N[1]	CM422N[2]	CP422NWH
50A DP switch + neon 'cooker'	–	C421N	C421NB	CP423N[1]	CM423N[2]	–
50A DP switch + neon 'air conditioner'	–	C421N	C421NB	–	CM424N[2]	–

C425NWH

45A switches

- Minimum back box depth = 47mm.
- To BS 4177.

Description	Eaton list number					
	White interior c/w white cover	White interior	Black interior	Decorative plate option	Metallic plate option	White cover
45A DP cooker control unit	C425WH	C425	C425B	CP425[1]	CM425[2]	CP425WH
45A DP cooker control unit + neon	C425NWH	C425N	C425NB	CP425N[1]	CM425N[2]	CP425NWH

[1]**Plastic covers available in the following finishes**

Finish	add suffix to end of part number	Example of product code
White	WH	CP401WH
Metallic silver	SV	CP401SV
Gold metallic	GL	CP401GL
Black matt	BM	CP401BM

[2]**Metal plates available in the following finishes**

Finish	add suffix to end of part number	Example of product code
Stainless steel	SS	CM401SS
Highly polished	HP	CM401HP
Satin bronze	SB	CM401SB
Polished brass	PB	CM401PB

CP392SV

Blank plates

• Minimum back box depth = 16mm.

Description	White interior c/w white cover	White interior	Black interior	Decorative plate option	Metallic plate option	White cover
1G blank plate	**C391WH**	**C391**	–	**CP391**[1]	**CM391**[2]	**CP391WH**
2G blank plate	**C392WH**	**C392**	–	**CP392**[1]	**CM392**[2]	**CP392WH**

Eaton list number

[1] Plastic covers available in the following finishes

Finish	add suffix to end of part number	Example of product code
White	WH	CP391WH
Metallic silver	SV	CP391SV
Gold metallic	GL	CP391GL
Black matt	BM	CP391BM

[2] Metal plates available in the following finishes

Finish	add suffix to end of part number	Example of product code
Stainless steel	SS	CM391SS
Highly polished	HP	CM391HP
Satin bronze	SB	CM391SB
Polished brass	PB	CM391PB

C362

Telephone outlets

- Minimum back box depth = 25mm.

Description	Eaton list number					
	White interior c/w white cover	White interior	Black interior	Decorative plate option	Metallic plate option	White cover
1G telephone outlet master	**C360WH**	**C360**	**C360B**	**CP360**[1]	**CM360**[2]	**CP360WH**
1G telephone outlet secondary	**C361WH**	**C361**	**C361B**	**CP360**[1]	**CM360**[2]	**CP360WH**
1G telephone outlet RJ11	–	**C362**	**C362B**	**CP360**[1]	**CM360**[2]	**CP360WH**
1G RJ45 CAT 6 outlet	**C363WH**	**C363**	**C363B**	**CP360**[1]	**CM360**[2]	**CP360WH**

C351B

CP351GL

C351B + CP351GL

TV co-axial outlets

- To BS3041-2.
- Minimum back box depth = 25mm.

Description	Eaton list number					
	White interior c/w white cover	White interior	Black interior	Decorative plate option	Metallic plate option	White cover
1G TV co-axial outlet	**C351WH**	**C351**	**C351B**	**CP351**[1]	**CM351**[2]	**CP351WH**
2G TV co-axial outlet	**C352WH**	–	–	**CP352**[1]	**CM352**[2]	**CP352WH**

C353WH

TV/FM/radio and satellite outlets

- To BS 6312: 2.2.
- Minimum back box depth = 25mm.

Description	Eaton list number					
	White interior c/w white cover	White interior	Black interior	Decorative plate option	Metallic plate option	White cover
1G TV/FM isolated co-axial outlet	**C353WH**	–	–	**CP351**[1]	**CM351**[2]	**CP351WH**
2G TV/FM diplexer co-axial outlet	**C354WH**	**C354**	–	**CP352**[1]	**CM352**[2]	**CP352WH**
1G Satellite outlet	**C355WH**	**C355**	**C355B**	**CP351**[1]	**CM351**[2]	**CP351WH**
2G TV/Satellite outlet	**C356WH**	–	**C356B**	**CP352**[1]	**CM352**[2]	**CP352WH**

[1]**Plastic covers available in the following finishes**

Finish	add suffix to end of part number	Example of product code
White	**WH**	**CP360WH**
Metallic silver	**SV**	**CP360SV**
Gold metallic	**GL**	**CP360GL**
Black matt	**BM**	**CP360BM**

[2]**Metal plates available in the following finishes**

Finish	add suffix to end of part number	Example of product code
Stainless steel	**SS**	**CM360SS**
Highly polished	**HP**	**CM360HP**
Satin bronze	**SB**	**CM360SB**
Polished brass	**PB**	**CM360PB**

COPA clip-on plate accessory range
PREMERA mix module plates
5.7

C903WH

Modular plates

- Minimum back box depth = 35mm.
- For modules, please refer to PREMERA mix section – see page 39.

Description	Eaton list number					
	White interior c/w white cover[3]	White interior[3]	Black interior[3]	Decorative plate option[4]	Metallic plate option[4]	White cover[4]
1 module plate	C901WH	C901	C901B	CP901[1]	CM901[2]	CP901WH
2 module plate	C902WH	C902	C902B	CP902[1]	CM902[2]	CP902WH
3 module plate	C903WH	C903	C903B	CP903[1]	CM903[2]	CP903WH
4 module plate	C904WH	C904	C904B	CP904[1]	CM904[2]	CP904WH
6 module plate	C906WH	C906	C906B	CP906[1]	CM906[2]	CP906WH
8 module plate	C908WH	C908	C908B	CP908[1]	CM908[2]	CP908WH
12 module plate	–	C912	C912B	CP912[1]	CM912[2]	CP912WH
18 module plate	–	C918	C918B	CP918[1]	CM918[2]	CP918WH
24 module plate	–	C924	C924B	CP924[1]	CM924[2]	CP924WH

[3] Supplied with mounting frames/earth bars
[4] Covers only

PREMERA mix plate dimensions

	1 gang	2 gang	3 gang	4 gang	6 gang	8 gang	12 gang	18 gang	24 gang
PREMERA									
Eaton list number:	P901	P902	P903	P904	P906	P908	P912	–	–
	P901GY	P902GY	P903GY	P904GY	P906GY	P908GY	–	–	–
Plate dimensions:	86 x 86mm	86 x 86mm	146 x 86mm	146 x 86mm	146 x 150mm	146 x 150mm	146 x 210mm	–	–
COPA interiors									
Eaton list number:	C901	C902	C903	C904	C906	C908	C912	C918	C924
	C901B	C902B	C903B	C904B	C906B	C908B	C912B	C918B	C924B
Plate dimensions:	84 x 84mm	84 x 84mm	145 x 84mm	145 x 84mm	142 x 142mm	142 x 142mm	142 x 207mm	203 x 207mm	203 x 267mm
COPA & COPA fix plates									
Eaton list number:	C901WH	C902WH	C903WH	C904WH	–	–	–	–	–
	CP901[1]	CP902[1]	CP903[1]	CP904[1]	CP906[1]	CP908[1]	CP912[1]	CP918[1]	CP924[1]
	CM901[2]	CM902[2]	CM903[2]	CM904[2]	CM906[2]	CM908[2]	CM912[2]	CM918[2]	CM924[2]
	B901SS	B902SS	B903SS	B904SS	B906SS	B908SS	B912SS	B918SS	B924SS
Plate dimensions:	87 x 87mm	87 x 87mm	148 x 87mm	148 x 87mm	146 x 150mm	146 x 150mm	146 x 210mm	206 x 210mm	206 x 270mm
Xtra plates									
Eaton list number:	X901MG	X902MG	X903MG	X904MG	X906MG	X908MG	X912MG	X918MG	X924MG
Plate dimensions:	86 x 86mm	86 x 86mm	148 x 87mm	148 x 87mm	137 x 137mm	137 x 137mm	137 x 195mm	200 x 198mm	198 x 257mm

[1] Plastic covers available in the following finishes

Finish	add suffix to end of part number	Example of product code
White	WH	CP901WH
Metallic silver	SV	CP901SV
Gold metallic	GL	CP901GL
Black matt	BM	CP901BM

[2] Metal plates available in the following finishes

Finish	add suffix to end of part number	Example of product code
Stainless steel	SS	CM901SS
Highly polished	HP	CM901HP
Satin bronze	SB	CM901SB
Polished brass	PB	CM901PB

WIRING ACCESSORIES AND SINGLE PHASE DISTRIBUTION   PG00400018U – June 2016

The COPA style of plate has been extended to offer an alternative to the 'clip-on' plate by offering the same plate profile with it's stylish good looks but with a fixed plate, rather than just a 'clip-on' option.

COPA fix offers a solution in situations where it is more desirable to have screw fixed plates in applications such as schools and public places.

B022SS

10A switches

- To BSEN60669-1.

Description	Eaton list number Stainless steel
10A 1G 1W retractive switch bell push symbol	**B015SS**
10A intermediate switch	**B017SS**
10A 1G 2W switch	**B021SS**
10A 2G 2W switch	**B022SS**
10A 3G 2W switch	**B023SS**

B048SS

10A broad rocker switches

- To BSEN60669-1.

Description	Eaton list number Stainless steel
10A 3-pole broad fan isolator + fan symbol	**B048SS**

B621SS

13A switched sockets

- To BS1363 Part 2.

Description	Eaton list number Stainless steel
13A 1G DP switched socket 2E terminals	**B621SS**
13A 2G DP switched socket 2E terminals	**B622SS**
13A 1G DP switched socket 2E terminals + neon	**B621NSS**
13A 2G DP switched socket 2E terminals + neon	**B622NSS**

B621RRSS

13A switched sockets – red rockers

- To BS1363 Part 2.

Description	Eaton list number Stainless steel
13A 1G DP switched socket 2E terminals – red rockers	**B621RRSS**
13A 2G DP switched socket 2E terminals – red rockers	**B622RRSS**

B632SS

13A switched sockets outboard rockers

- To BS1363 Part 2.

Description	Eaton list number Stainless steel
13A 2G DP switched socket 2E terminals – outboard rockers	**B632SS**

B652SS

13A switched sockets outboard rockers non-standard

- To BS 5733.
- With clean earth facility.

Description	Eaton list number Stainless steel
13A 1G DP switched socket 2E terminals – non-standard outboard rockers	**B651SS**
13A 2G DP switched socket 2E terminals – non-standard outboard rockers	**B652SS**

B111SS

13A unswitched sockets

- To BS1363 Part 2.

Description	Eaton list number Stainless steel
13A 1G unswitched socket	**B111SS**
13A 2G unswitched socket	**B112SS**

B370SS

Shaver socket

- To BSEN61558-2-5.

Description	Eaton list number Stainless steel
Shaver socket dual voltage 230V 115AC	**B370SS**

B221NSS

13A connection units

- To BS1363 Part 4.

- Use **C212** for bottom entry cable outlet.

Description	Eaton list number Stainless steel
13A unswitched connection unit + neon	**B220NSS**
13A unswitched connection unit	**B220SS**
13A switched fused connection unit + neon	**B221NSS**
13A switched fused connection unit	**B221SS**

B401NSS

20A switches

- To BSEN60669-1.
- Use **C212** for bottom entry cable outlet.

Description	Eaton list number Stainless steel
20A DP switch + neon	**B401NSS**
20A DP switch	**B401SS**
20A DP switch + neon marked 'water heater'	**B403NSS**

B422NSS

45A/50A switches

Description	Eaton list number Stainless steel
50A DP switch + neon – 2 gang plate size	**B421NSS**[1]
50A DP switch + neon	**B422NSS**[1]
45A DP cooker control unit + neon	**B425NSS**[2]
50A DP switch + neon marked 'cooker'	**B426NSS**[1]

[1] To BSEN60669-1.
[2] To BS 4177:1992 (2004).

B392SS

Blank plates

Description	Eaton list number Stainless steel
1G blank plate	**B391SS**
2G blank plate	**B392SS**

B351SS

Communication outlets

Description	Eaton list number Stainless steel
1G TV co-axial outlet	**B351SS**

B902SS

PREMERA mix module plates

- To BS5733.

- **B906**–**B924** are plates only. **C906**–**C924** interior frames are also required.

Description	Eaton list number Stainless steel
1 module cover plate c/w mounting frame	**B901SS**
2 module cover plate c/w mounting frame	**B902SS**
3 module cover plate c/w mounting frame	**B903SS**
4 module cover plate c/w mounting frame	**B904SS**
6 module cover plate (2 banks)	**B906SS**
8 module cover plate (2 banks)	**B908SS**
12 module cover plate (3 banks)	**B912SS**
18 module cover plate (3 banks)	**B918SS**
24 module cover plate (4 banks)	**B924SS**

The perfect choice for a variety of industrial and commercial projects. The XTRA range of rugged and tough surface metalclad accessories are produced from high quality steel with an epoxy powder coating for corrosion resistance.

X022MG

10A switches

- To BSEN 60669-1.

- Supplied with M3.5 fixing screws. Each terminal is capable of accepting up to 3 x 1.5mm² conductors. All terminals are backed off, ready to accept cable. X-rated for fluorescent or inductive loads.

Description	Eaton list number
10A 1G 2 way	**X021MG**
10A 2G 2 way	**X022MG**
10A 3G 2 way	**X023MG**
10A 1G intermediate	**X017MG**

X048MG

3 pole isolator switches

- To BSEN 60669-1.

- Supplied with M3.5 fixing screws. Each terminal is capable of accepting up to 3 x 1.5mm² conductors. All terminals are backed off, ready to accept cable. X-rated for fluorescent or inductive loads.

Description	Eaton list number
10A broad fan isolator + fan symbol	**X048MG**
10A broad fan isolator	**X049MG**

X401NMG

20A double pole switches

- To BSEN 60669-1.

- Supply terminals accept 3 x 2.5mm² condutors. Load terminals accept 2 x 2.5mm² conductors.

Description	Eaton list number
20A DP switch	**X401MG**
20A DP switch + neon	**X401NMG**

X421NMG

50A double pole switch

- To BSEN 60669-1.

Description	Eaton list number
50A DP switch + neon (2 gang size)	**X421NMG**

X111MG

13A unswitched socket outlets

- To BS 1363:Part 2.
- Terminals capable of accepting up to 3 x 4mm² or 2 x 6mm² conductors.

Description	Eaton list number
13A 1G unswitched socket	**X111MG**
13A 2G unswitched socket	**X112MG**

X621MG

13A double pole switched sockets

- To BS 1363: Part 2.
- 2 earth terminals and inboard rockers.

Description	Eaton list number
13A 1G DP switched socket with 2E terminals	**X621MG**
13A 1G DP switched socket with 2E terminals + neon	**X621NMG**
13A 1G DP switched socket with 2E terminals + red rocker	**X621RRMG**
13A 2G DP switched socket with 2E terminals	**X622MG**
13A 2G DP switched socket with 2E terminals + neon	**X622NMG**
13A 2G DP switched socket with 2E terminals + red rocker	**X622RRMG**

X632MG

13A 2G double pole switched sockets outboard rockers

- To BS 1363: Part 2.
- Terminals capable of accepting up to 3 x 4mm² or 2 x 6mm² conductors.
- 2 earth terminals and outboard rockers.

Description	Eaton list number
13A 2G DP switched socket with 2E terminals	**X632MG**
13A 2G DP switched socket with 2E terminals + red rockers	**X632RRMG**

X651MG

13A 1G double pole non-standard/clean earth switched sockets

- Non-standard socket interface to BS 5733 with clean earth facility.

Description	Eaton list number
13A 1G DP switched socket	**X651MG**
Non-standard plug top	**F3368**

X652MG

13A 2G double pole non-standard/clean earth switched sockets

- Non-standard socket interface to BS 5733 with clean earth facility.
- Outboard rockers.

Description	Eaton list number
13A 2G DP switched socket with 2E terminals	**X652MG**

X686MG

13A double pole RCD socket outlet – passive

- To BS 7288.
- Added protection against electrocution.
- Passive – the contacts on the passive device remain closed when the mains supply is interrupted – this type is suitable for applications such as fridge freezers etc.

Description	Eaton list number
13A 2G RCD protected socket passive 30mA	**X686MG**

XTRA surface metalclad
Socket outlets

X415MG

15A socket outlet

• To BS 546.

Description	Eaton list number
15A 1G switched socket	**X415MG**

X220MG

13A fused connection units – unswitched

- To BS 1363: Part 4: 1995.
- Live and neutral terminals accept 2 x 4mm² cables.

Description	Eaton list number
13A unswitched connection unit	**X220MG**
13A unswitched connection unit + neon	**X220NMG**

X221MG

13A fused connection units

- To BS 1363: Part 4: 1995.
- Live and neutral terminals accept 2 x 4mm².

Description	Eaton list number
13A switched connection unit	**X221MG**
13A switched connection unit + neon	**X221NMG**

X220RRMG

13A fused connection units with red rockers/fuse drawers

- To BS 1363: Part 4: 1995.
- Live and neutral terminals accept up to 2 x 2.5mm² cables.
- Highlights essential supply circuits where extra safety is a vital consideration.
  - Hospitals   - Hospitals   - Computer installations
- Circuits can be quickly and easily identified.

Description	Eaton list number
13A DP unswitched connection unit – red fuse drawer	**X220RRMG**
13A DP switched connection unit – red rocker	**X221RRMG**
13A DP switched connection unit – red rocker + neon	**X221NRRMG**

X901MG

Modular coverplates – surface metalclad

- Suitable for use with PREMERA mix modules – see page 39.

- Dimensions: 1G–2G: 86mm x 86mm   3G–4G: 86mm x 146mm   6G–8G: 134mm x 134mm
  9G–12G: 134mm x 195mm 18G: 195mm x 195mm   24G: 195mm x 256mm

- Surface mounting box:
  1G–2G: **FM8340** 3G–4G: **FM8341**   6G–8G: **F8342**   12G: **F8343**   (41mm deep with earth terminal).
  18G: **F8344**   24G: **F8345**   (56mm deep with earth terminal).

Description	Eaton list number
1G module coverplate c/w earth bar	**X901MG**
2G module coverplate c/w earth bar	**X902MG**
3G module coverplate c/w earth bar	**X903MG**
4G module coverplate c/w earth bar	**X904MG**
6G module coverplate c/w mounting frame	**X906MG**
8G module coverplate c/w mounting frame	**X908MG**
12G module coverplate c/w mounting frame	**X912MG**
18G module coverplate c/w mounting frame	**X918MG**
24G module coverplate c/w mounting frame	**X924MG**

X391MG

Blank plates

Description	Eaton list number
1G blank plate	**X391MG**
2G blank plate	**X392MG**

CIRCA is a comprehensive range of white ceiling accessories, ideal for all project requirements. Tortuous path lampholders enable simple, speedier installation and pre-assembled pendant sets ensure maximum convenience.

F1000

Lampholders

- To BSEN 61184-T2.
- 2A rated.
- Meets the T2 ratings requirements of specification which tests at 210°C lamp cap temperature.

Description	Eaton list number
Lampholder short skirt	**F1000**

F1091

Battenholders

- To BSEN 61184-T2

Description	Eaton list number
Batten lampholder 2T short skirt	**F1025**
Batten lampholder 3T&E HR leads home office skirt	**F1091**

F1200

Ceiling roses

- To BS 67
- 6A rated.
- Supplied with 332 terminal arrangement + 1 x 2 hole pillar terminal for earth conductors. Each pillar terminal will accept up to 3 x 1 x 1.5mm² conductors. Screw fixings are positioned to allow joist fixing with the central rear cable knock out accessible at the side of the joist or for use with a small circular BESA box.

Description	Eaton list number
Ceiling rose with 332 terminal block and E	**F1200**

F1250

Pendant set with F1000 lampholder

Description	Eaton list number
6″ pendant assembly **F1000** and **F1200**	**F1250**

F5002

Lampholder accessories

Description	Eaton list number
Lampholder home office skirt	**F5002**
Lampholder short skirt	**F5006**

F1451

Lamp activated pendant set

- To BSEN 61184-T2.

- T2 rated. Plungers remain isolated until lamp is fully inserted. Live parts only accessible with tool. Incorporates switching mechanism.

Description	Eaton list number
6″ lamp activated pendant set	**F1450**
9″ lamp activated pendant set	**F1451**

F1491

Lamp activated battenholders

- To BSEN 61184-T2.

- T2 rated. Plungers remain isolated until lamp is fully inserted. Live parts only accessible with tool. Incorporates switching mechanism.

- 332 + earth terminal arrangement.

Description	Eaton list number
Lamp activated batten lampholder HR leads	**F1491**

F1260

BC3 low energy pendant sets

- Lampholders tested to BS 5733 and relevant parts of BSEN 61184-T2.
- Will accept standard UK 29mm diameter shade ring and require no adjustment.

Description	Eaton list number
BC3 pendant set for low energy lamps 4" drop	**F1260**
BC3 pendant set for low energy lamps 6" drop	**F1261**

F1264

BC3 low energy battenholders

- Lampholders tested to BS 5733 and relevant parts of BSEN 61184-T2.

Description	Eaton list number
BC3 battenholder for low energy lamps	**F1263**
BC3 angled battenholder for low energy lamps	**F1264**

F1267

BC3 low energy lamps

- Lamps to IEC 60969.

Description	Eaton list number
BC3 20W TT low energy CFL lamp 'warm white'	**F1267**

Product specification

Eaton list number	Lamp life (hrs)	Lumens	Lumens per Watt	Energy category
F1267	8000	1200	60	A

F1340

Ceiling switches

- To BSEN 60669-1.
- Dimensions: **F1340** – 86mm x 86mm, Fixing centres – 60.3mm – **F1350/F1351** – 85mm diameter.
- Mounting box: **F4570**.
- 6A ceiling switches, each terminal is capable of accepting up to 3 x 1.5mm² conductors.

Description	Eaton list number
50A DP ceiling pull switch c/w neon and flag indicator	**F1340**
6A 1 way ceiling switch	**F1350**
6A 2 way ceiling switch	**F1351**
Pull cord and acorn for **F1350**, **F1351**, **F1340**	**F1350PC**

The BS 7001 LSC (Luminaire Supporting Coupler) system is recognised as the industry standard interface, offering complete changeability with other manufacturers' products. Both the 3 and 4 pin LSC systems provide considerable benefits for the specifier, contractor and end user.

9.1 LSC PLUG-IN LIGHTING SYSTEM

9.2 LDU SYSTEM

F8501

F8570

LSC ceiling assembly

- BS 6972: 1988 and BS 7001: 1998.
- Rated 6A with outlets capable of installation on a 16A lighting circuit.
- Coupler supports loads up to 5kg.
- Base terminals will accept 2 x 4.0mm^2 incoming cables.
- Heat resisting cable is to BS 6141.
- Fixing centres 50.8mm.

Description	Eaton list number
3 pin LSC ceiling assembly (ceiling outlet, plug, cover)	**F8501**
3 pin assembly c/w 2 mtrs 0.75mm^2 HR (heat resistant) cable	**F8570**
3 pin assembly c/w 2 mtrs 1.00mm^2 HR (heat resistant) cable	**F8571**
3 pin assembly c/w 3 mtrs 0.75mm^2 HR (heat resistant) cable	**F8572**
3 pin assembly c/w 3 mtrs 1.00mm^2 HR (heat resistant) cable	**F8573**
3 pin assembly c/w 2 mtrs 0.75mm^2 LSF (low smoke and fume) cable	**F8580**
3 pin assembly c/w 2 mtrs 1.00mm^2 LSF (low smoke and fume) cable	**F8581**
3 pin assembly c/w 3 mtrs 0.75mm^2 LSF (low smoke and fume) cable	**F8582**
3 pin assembly c/w 3 mtrs 1.00mm^2 LSF (low smoke and fume) cable	**F8583**
3 pin assembly c/w 1 mtr 1.00mm^2 LSF (low smoke and fume) cable	**F8584**

F8502

LSC ceiling outlet

- To BS 6972: 1988 and BS 7001: 1988.
- Large outlet terminals will take up to 2 x 4.0mm^2 cable.
- Flush mounting box for F8502 is a standard BESA circular box (27mm deep).

Description	Eaton list number
3 pin LSC ceiling outlet	**F8502**

F8540

3 pin system LSC plug

- To BS 6972: 1988 and BS 7001: 1988.

Description	Eaton list number
3 pin LSC re-wireable plug	**F8540**

F8534

Ceiling LSC covers

- Ceiling cover provide extra protection for the outlets.
- Red covers allow for easy identification of a 4 pin circuit.

Description	Eaton list number
Ceiling rose cover – white	**F8534**
Ceiling rose cover – red	**F8635**

F8602

F8671

4 pin LSC ceiling outlets

- Red plug allows easy identification of a 4 pin circuit.
- Height: 46mm, diameter 85mm.
- Rated 6A with outlets capable of installation on a 16A lighting circuit.
- Coupler supports loads up to 5kg.
- Outlet terminals will accept 2 x 4.0mm^2 incoming cables.
- Heat resisting cable attached is to BS 6141.
- Fixing centres 50.8mm.

Description	Eaton list number
4 pin LSC ceiling assembly (ceiling outlet, plug, cover)	**F8601**
4 pin LSC ceiling outlet	**F8602**
4 pin LSC ceiling assembly with red ceiling rose cover	**F8603**
4 pin assembly c/w 2mtrs 0.75mm2 HR (heat resistant) cable	**F8670**
4 pin assembly c/w 2 mtrs 1.00mm^2 HR (heat resistant) cable	**F8671**
4 pin assembly c/w 3 mtrs 1.00mm^2 HR (heat resistant) cable	**F8672**
4 pin assembly c/w 2 mtrs 1.00mm^2 LSF (low smoke and fume) cable	**F8681**
4 pin assembly c/w 3 mtrs 1.00mm^2 LSF (low smoke and fume) cable	**F8682**
4 pin assembly c/w 1 mtr 1.00mm^2 LSF (low smoke and fume) cable	**F8684**

F8641

F8640

4 pin system LSC plugs

- To BS 6972: 1988 and BS 7001: 1988.

Description	Eaton list number
4 pin LSC re-wireable plug – white cover	**F8641**
4 pin LSC re-wireable plug – red cover	**F8640**

LDU6

LDU multi-outlet boxes

- To BS 5733.

- Large outlet terminals will take up to 2 x 2.5mm^2 incoming cables.

- Dimensions: 6/8 LDU Length: 255mm, width: 168mm, depth: 58mm.
  10/12 LDU Length: 255mm, width: 247mm, depth: 58mm.

- Removable links allow each row to be switched separately.

Description	Eaton list number
6G LSC outlet unit – 4 pin	**LDU6**
8G LSC outlet unit – 4 pin	**LDU8**
10G LSC outlet unit – 4 pin	**LDU10**
12G LSC outlet unit – 4 pin	**LDU12**

FP320

3 pin plugs c/w cable

- 3 pin = live, neutral and earth.

Description	Eaton list number
3 pin plug c/w 2 mtrs HR (heat resistant) 0.75mm^2 cable	**FP320**
3 pin plug c/w 3 mtrs HR (heat resistant) 0.75mm^2 cable	**FP330**
3 pin plug c/w 4 mtrs HR (heat resistant) 0.75mm^2 cable	**FP340**
3 pin plug c/w 3 mtrs HR (heat resistant) 1.00mm^2 cable	**FP331**
3 pin plug c/w 5 mtrs HR (heat resistant) 1.00mm^2 cable	**FP351**
3 pin plug c/w 3 mtrs LSF (low smoke and fume) 1.00mm^2 cable	**FL331**
3 pin plug c/w 5 mtrs LSF (low smoke and fume) 1.00mm^2 cable	**FL351**

FP421

4 pin plugs c/w cable

- 4 pin = live, neutral, earth and separate live connection for emergency pack equipped luminaires.

Description	Eaton list number
4 pin plug c/w 2 mtrs HR (heat resistant) 1.00mm^2 cable	**FP421**
4 pin plug c/w 3 mtrs HR (heat resistant) 1.00mm^2 cable	**FP431**
4 pin plug c/w 5 mtrs HR (heat resistant) 1.00mm^2 cable	**FP451**
4 pin plug c/w 3 mtrs LSF (low smoke and fume) 1.00mm^2 cable	**FL431**
4 pin plug c/w 4 mtrs LSF (low smoke and fume) 1.00mm^2 cable	**FL441**
4 pin plug c/w 5 mtrs LSF (low smoke and fume) 1.00mm^2 cable	**FL451**

Suitable for residential and light commercial applications, Eaton's xComfort RF product range has been specifically designed to provide centralised control of all the electrical equipment in order to maximise energy savings, comfort, safety and security.

• Ideal for new construction and renovation projects

• Numerous functions available e.g. control of lights, blinds, heating, ventilation etc. including status display

• Control by wireless switches, remote control, smart phones and tablets

• Simple to install within an existing installation, no chiselling, no mess, minimal wiring

• Suitable for a wide range of applications, can easily be expanded

• Matches a wide range of wiring accessories and switches

• Little wiring required

System components include sensors, actuators
and control/communication devices.

Switching actuator

switches lights, pumps, ventilation
and heating systems, saunas, ... any
electrical consumer product.

Shutter actuator

for controlling blinds, shutters,
mixing values, etc.

Dimming actuator

switches and dims lights and
light environments.

Router

redirects information when direct
transmission is not possible.

Temperature input unit

measures temperature and
controls shading and heating.

Smart home controller

centrally operating and report via
smart phones and tablets.

Room manager

the operating and display unit – easy
to handle and easy to read.

Room controller

regulates and controls heating and shading.

Binary input unit

for integrating conventional switches,
window contacts, and signal contacts.

Push-button unit

for lighting, shading, etc.

PIR motion sensor

controls lights depending on
movement and brightness.

Adaptor plug

switches and dims living room
fountains, aquaria, etc.

Remote control

controls lights, shading and other
electrical consumer products.

Analogue actuator

controls devices such as mixers,
dimmers and fluorescent lamps.

Analogue input

receives data from universal
sensors for further processing.

Sensors

receive different information,
with alarm option.

xComfort's flexibility and intelligence makes it a powerful tool… particularly when it comes to saving energy. All the key influences, such as interior and exterior temperatures, light levels and room occupancy, can be taken into account automatically to provide exceptionally efficient and sophisticated control over lighting, heating and air-conditioning.

As well as having a wide range of applications for commercial premises, xComfort can be used to provide a high degree of home automation, including pre-programmed lighting schemes for living areas and bedrooms, timed operation of television and lights to deter burglars, and automatic operation of window blinds.

- Ideal for new construction and renovation.
- Numerous functions, such as controlling lights, blinds, heating, ventilation, etc. including status display.
- Control by wireless switch, remote control and mobile phone.
- Simple installation within an existing installation system, no chiselling, no mess, no additional wiring.
- Suitable for a wide range of applications, can easily be expanded.
- Matches a wide range of accessories and switches.
- Little wiring required.

xComfort bi-directional technology:

Making it significantly more reliable than uni-directional communication.

Without battery (uni-directional)

The switch will work on a self-powered basis, only sending a signal when the switch is pushed. The actuator can receive a command, but it cannot send one back to say that the command has been obeyed. Therefore, if errors occur, or a signal is poor, there is nothing in place to ensure that the commands are always completed.

With battery (bi-directional)

- The switch uses the battery power to send a command to the actuator; the actuator receives the signal and carries out the command; it then sends confirmation to the switch.

- If for any reason (for instance, technical error or poor signal) the command is not received by the actuator, the intelligence of the bi-directional system allows the switch to automatically resend the command twice more within a split second.

- If the actuator has still not completed the command after three attempts, the mesh network enables other actuators within the building to route and complete the task, ensuring that all commands are always fulfilled as long as the installation was done in comfort mode.

The xComfort system can be set up in two main ways – "basic mode" or "comfort mode".

Basic mode

This is ideal for straightforward installations. The functions of the devices can be assigned by just activating the programming key and the corresponding push-button, a simple procedure that requires no complicated tools – all that is needed is a small screwdriver.

Three simple steps

1. Press the configuration button on the actuator with a screwdriver for less than 0.5 seconds. Actuator enters teaching mode. LED in the actuator is on.

2. Press the selected pushbutton for less than 0.5 sec. The LED in the assigned actuator flashes twice for confirmation.

3. Press the configuration button on the actuator with a screwdriver for less than 0.5 seconds. Actuator leaves teaching mode.

Uni-directional

Click switch ➝ Command sent ➝ Actuator initiates (no confirmation)

Bi-directional

Click switch ➝ Command sent ➝ Actuator initiates

Confirmation of action

No confirmation

1

2

3

F9401

RF pushbuttons – 1, 2, & 4 channel

When pressed, the RF push-button sends signals to the actuators of the xComfort system. No distinction is required between a shutter, dimmer, etc. or a two-way, intermediate or shutters/blinds switch. The device is powered by a coin cell. Therefore, it can be conveniently attached (screw-mounted or glued) wherever needed. Thanks to the very flat design, NO switch or installation box is required, although may be used for convenience.

Frames are available in a wide variety of designs and finishes (see PREMERA mix section).

The battery is included in the scope of delivery.

F9404

Description	Eaton list number
1 gang PREMERA RF push button module	**F9401**
2 gang PREMERA RF push button module	**F9402**
4 gang PREMERA RF push button module	**F9404**
PREMERA surface mounting RF module plate	**F9400**
Spare battery for module 3V **CR2430**	**CBTZ-00/01**

CSAU-01/01-10

RF switching actuator

This generation of switching actuators is characterised particularly by its small dimensions, high switching performance and extended functionality. Due to the hybrid switching technology this switching actuator can switch a variety of devices/systems such as lighting, ventilation, heating, alarm systems, etc. It can be directly controlled by switches, sensors and smart devices.

The device can easily be mounted in installation boxes for switches, branch-off boxes or standard installation boxes, or directly inside the cover of the light fixture.

• Local input sensor 230VAC

The extra local input sensor gives the opportunity to use the existing or any market available switch directly in combination with the actuator without the need for additional components. It can also be used with existing motion sensors. Like a standard binary input device this input can also be assigned to other devices to send switching signals.

• Integrated energy measurement with load fault indication

The internal internal energy sensor is used to measure and record the energy consumption of the connected load. Like a standard energy measurement sensor it can be assigned directly to a smart device like the smart home controller to monitor and manage the power (W) and energy (kWh) consumption. The additional load error detection status can be used to signal a failure of the switched load based on a load beneath the definable minimum consuming power. Please note: The device is not calibrated, it is therefore not suitable for invoicing purposes!

• Extended status messaging (routable)

This device supports the extended status messaging format for high status reliability and additional status information in combination with smart devices like the smart home controller.

RF switching actuator 10A

Description	Eaton list number
10A/230VAC Basic	**CSAU-01/01-10**
10A/230VAC Local input	**CSAU-01/01-10I**
10A/230VAC Local input + energy measurement	**CSAU-01/01-10IE**

RF switching actuator 16A

Description	Eaton list number
16A/230VAC Basic	**CSAU-01/01-16**
16A/230VAC Local input	**CSAU-01/01-16I**
16A/230VAC Local input + energy measurement	**CSAU-01/01-16IE**

WARNING!
CSAU-01/01-16, CSAU-01/01-16I, CSAU-01/01-16IE:
This device must be installed inside a mounting box (complying to EN60670) and behind an accessory or blank plate that uses at least 2 screw fixing points to secure it to the mounting box. Failure to do so could result in a fire hazard or electric shock under extreme external fault conditions.

CSAU-01/02

RF switching actuator – potential-free

RF receiver for switching power devices (lighting, heating, etc) rated at 8A/230VAC/24VDC – potential free 2 pole switching

Description	Eaton list number
8A/230VAC	**CSAU-01/02**

CSAU-01/03

RF switching actuator – all-pole

RF receiver for switching power devices (lighting, heating, etc) rated at 8A/230VAC – 2 pole switching

Description	Eaton list number
8A/230VAC	**CSAU-01/03**

CSAP-01/03

RF switching actuator adaptor plug

The switching actuator adaptor plug receives signals and controls devices such as floor-standing lamps, fans, audio and video appliances, living room fountains, aquaria, etc. It is mains-supplied, can be plugged into an existing wall outlet and does not require any wiring work.

Description	Eaton list number
8A/230VAC	**CSAP-01/03**

CDAU-01/02

RF dimming actuator

The dimming actuator receives signals and switches/dims incandescent lamps and electronic transformers for low-voltage halogen lamps (DO NOT USE inductive loads!).

Description	Eaton list number
250W/230VAC	**CDAU-01/02**

CDAU-01/04

Smart RF dimming actuator – enclosed and flush

This new generation of flush dimming actuators is characterised particularly by its small dimensions, robustness, reduced power consumption and extended functionality. Due to the smart dimming technology, this dimming actuator can dim a large variety of loads without flickering, flashing, LED glow or audible noise. It dims even the smallest LED load, starting from 0W and is easy to select or define a dim profile for the best performance. It is also capable of switching non-dimmable loads (On/Off). It can be directly controlled by switches, sensors and smart devices and is short circuit, overload and over temperature protected. This device can easily be mounted in installation boxes for switches, standard installation boxes, or directly inside the cover of the light fixture. Also available in enclosed format.

CDAE-01/04

• Local input sensor 230VAC
The two extra local input sensor connections give the opportunity to use any market available push switch directly in combination with the actuator. It can be used in single or dual push switch mode. In single push switch mode the second input can be used to control a second actuator. Ideal for use with existing motion sensors. As with any standard binary input device the inputs can also be assigned to other devices for switching purposes.

• Integrated energy measurement with load fault indication
The internal "Energy Sensor" is used to measure and record the energy consumption of the connected load. Like a standard energy measurement sensor it can be assigned directly to a smart device like the smart home controller to monitor and manage the power (W) and energy (kWh) consumption. The additional load error detection status can be used to signal a failure of the switched load based on the load dropping beneath the definable minimum power level.
Please note: The device is not calibrated and is therefore not suitable for invoicing purposes!

• Extended status messaging (routable)
This device supports the extended status messaging format for high status reliability and additional status information in combination with smart devices like the smart home controller.

Description			Eaton list number
0 - 250W/230VAC	Basic	Enclosed	CDAE-01/04
0 - 500W/230VAC	Binary input	Enclosed	CDAE-01/05-I
0 - 500W/230VAC	Energy measuring sensor	Enclosed	CDAE-01/05-E
0 - 250W/230VAC	Basic	Flush	CDAU-01/04
0 - 250W/230VAC	Binary input	Flush	CDAU-01/04-I
0 - 250W/230VAC	Energy measuring sensor	Flush	CDAU-01/04-E

CDAE-01/01

RF dimming actuator – enclosed

The dimming actuator receives signals and switches/dims incandescent lamps and electronic transformers for low-voltage halogen lamps (DO NOT USE inductive loads!). Power supply is from the mains. The device can be mounted directly in an intermediate ceiling. The dimming actuator is also equipped with a last-value memory.

Description	Eaton list number
40–500W/230VAC	**CDAE-01/01**
250W/230VAC (pre set dimming range 20–99%)	**CDAE-01/02**
250W (pre set dimming range 0–55%)	**CDAE-01/03**

CDAP-01/13

RF dimming actuator adaptor plug

The dimming actuator adaptor plug receives signals and controls and dims devices such as floor-standing lamps. It is mains-supplied, can be plugged into an existing wall outlet and does not require any wiring work.

Description	Eaton list number
40–250VA/230VAC	**CDAP-01/13**

CJAU-01/02

RF shutters/blinds actuator

The shutters/blinds actuator receives signals and controls drives of shutters and blinds with 230V motors featuring an integrated limit switch. This actuator also offers 2 safety functions (e.g. safety position in case of wind and/or rain, lock-out protection to make sure that the shutter or blind will not close as long as the terrace door is open). Note: Never connect several shading motors in parallel to one blinds actuator without incorporating a cut-off relay. Power is supplied from the mains.

Description	Eaton list number
6A/230VAC	**CJAU-01/02**

CHSZ-01/05

1-channel remote control

The remote control equipped with a 1-channel alarm transmits a signal to the actuators of the xComfort electrical installation as soon as the alarm button is pressed. The mobile device is power-supplied by a coin cell battery (CR2430). It can be assigned to the safety function of the room manager in order to set off an alarm, for example. If the remote control equipped with a 1-channel alarm is assigned to an actuator, it works in the "current-pulse mode". A LED will tell the user whether the signal has been sent, and also whether it has been correctly understood and reconfirmed. The remote control is easy to fix at the key ring, key ribbon or at a hanger clip (not included in the scope of delivery). It is also possible to use an optional magnet-type wall-fixing (110771 - to be ordered separately). Battery included in the scope of delivery.

Description	Eaton list number
1 channel (mini)	**CHSZ-01/05**

CHSZ-02/02

2-channel remote control

The 2-channel remote control sends signals to the xComfort system when it is operated. This mobile device is powered by a coin cell battery (CR2430). The functions can be individually assigned, with no distinction to be made between blinds control, dimming, switching etc. A LED indicates whether the signal has actually been sent, correctly interpreted and re-confirmed. The remote control can simply be fixed at the key ring (included in the scope of delivery). Optionally, wall-mounting via a magnet is possible too (CMMZ-00/11 - to be ordered separately). Battery included in the scope of delivery.

Description	Eaton list number
2 channels (mini)	**CHSZ-02/02**

CHSZ-12/03

12-channel remote control

The 12-channel remote control sends signals to xComfort system when it is operated. This mobile device is powered by two AAA batteries. The functions can be individually assigned, with no distinction to be made between blinds control, dimming, switching etc. Pushing the pre-selection key (1-6) once will take you to level 1 (channels 1 to 6), (short) pushing the pre-selection key (1-6) twice will take you to level 2 (channel 7-12). The two LEDs indicate the level and whether the signal has actually be sent, correctly interpreted and re-confirmed. Optionally, wall-mounting via a magnet is possible too (CMMZ-00/11 – to be ordered separately). Battery included in the scope of delivery.

Description	Eaton list number
12 channels	**CHSZ-12/03**

CHSZ-12/04

12-channel remote control with display

The 12-channel remote control sends signals to the convenient electrical installation system when it is operated. This mobile device is powered by two AAA batteries. The functions can be individually assigned, with no distinction to be made between blinds control, dimming, switching etc. Pushing the pre-selection key (1-6) once will take you to level 1 (channels 1 to 6), (short) pushing the pre-selection key (1-6) twice will take you to level 2 (channel 7-12). The two LEDs indicate the level and whether the signal has actually be sent, correctly interpreted and re-confirmed. Optionally, wall-mounting via a magnet is possible too (CMMZ-00/11 - to be ordered separately). Battery included in the scope of delivery.

Description	Eaton list number
12 channels with display	**CHSZ-12/04**

CBMA-02/01

RF PIR motion sensor

This PIR motion sensor is designed to sense movement inside a building. Power supply is provided either through two AAA-batteries (included in the scope of delivery) or through a power supply unit (CMMZ – 00/08), not included in the scope of delivery), therefore it is easy to fix (screw or glue) it wherever you need it. To make it easy for you to do setting, we provide an adjustable "mounting support" (CMMZ – 00/09). Channel A (for lighting) transmits a switching command depending on the movement that has been detected, on the brightness and on the time-setting for the light to shut off again. Channel B (for alarm functions) transmits a switching command when movement is detected, irrespective of brightness and time-setting for switch-off (channel B is activated for approx. 145 seconds). The setting for the number of impulses to be analysed before triggering an alarm or transmitting a switching command can be done for both channels at the same time. All the settings can be carried out directly on the device, with the front cover removed. A light emitting diode (LED) makes the job of setting the sensor easier.

Description	Eaton list number
110°, covers 12m when mounted at a height of h=2.2m	**CBMA-02/01**

CMMZ-00/09

Mounting set for the motion sensor

The mounting set for the motion sensor is used where the sensor needs to be adjusted to different directions in order to guarantee an optimal area covered by the motion sensor (CBMA-02/01). (Two fixing screws are included).

Description	Colour	Eaton list number
Mounting set	white	**CMMZ-00/09**

CBEU-02/01

RF binary input unit 2 x 230VAC

The binary input unit transmits input signals e.g. from motion sensors or other signal contacts (relays, switches, pushbutton units, etc.) to the xComfort installation system. Power supply is from the mains. The device can be mounted in installation boxes for switches, branch-off boxes or standard installation boxes.

Description	Eaton list number
2 x 230VAC	**CBEU-02/01**

CBEU-02/02

RF binary input unit, 2 x signal contact

The binary input unit transmits input signals e.g. from window contacts, glass breakage sensors or other signal contacts (relays, switches, pushbutton units, etc) to the convenient electrical installation system. The device is powered by a coin cell (**CR2477N**). Therefore it can be conveniently attached (screw-mounted or glued) in any place. Placing it in installation boxes for switches, branch-off boxes or standard installation boxes is also possible.

Battery included.

Description	Eaton list number
2 x signal contact	**CBEU-02/02**

CAAE-01/02

RF analogue actuator 0–10VDC + 1–10VDC

The analogue actuator receives signals, switches a relay and actuates a control voltage of 1–10VDC for dimmers and electronic ballasts of fluorescent lamps. It is mains-supplied and can be incorporated into an installation box, an intermediate ceiling or directly into fluorescent lamps.

Description	Eaton list number
8A/230VAC, 20mA/0–10VDC	**CAAE-01/01**
8A/230VAC, 20mA/1–10VDC	**CAAE-01/02**

Comfort mode overview – using MRF software

Using an RS232 interface, the software scans for all devices within a building. Simply right clicking on any actuator can then allow access to other program and setting commands.

Once set, the pre-determined scenes, times, temperatures, light levels and commands are then loaded and the system is now programmed.

Once in this mode, the system becomes a mesh network – much more reliable than any other, as it allows the actuators to act as routers.

Comfort mode allows for much greater manipulation, maximising the system's full potential.
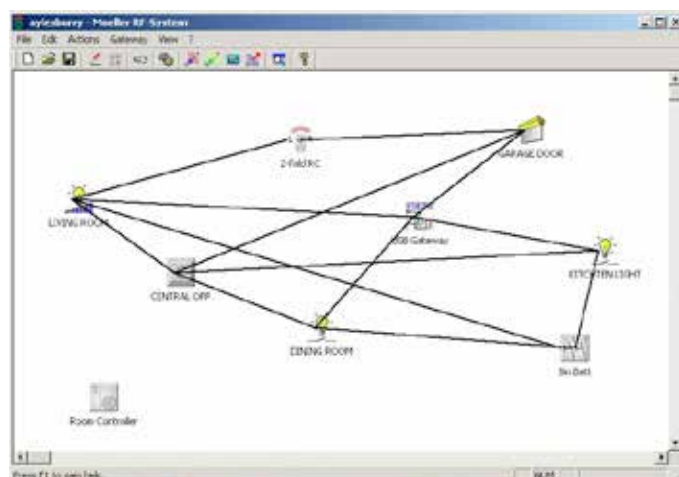
Comfort mode components

The devices listed below can all be incorporated along with the basic mode components to form a completely integrated home automation system, providing full building control, including the control of heating, lighting, blinds/shutters as well as energy and security functions.

All you need is a computer/laptop and the free MRF software, which is easy to understand, along with the xComfort RF configuration interface which will allow the MRF software to configure the system components via the PC or laptop.

If the system has been peviously configured in "Basic mode", the software will read all the existing functional links and display these as single lines on the screen. This configuration is then available for editing along with a host of additional settings and features only available in "Comfort mode". If no functions have previously been assigned to the system devices the MRF software in "Comfort mode" will allow you to assign links between devices simply by drawing lines between actuators and sensors on the screen as well as allowing the addition of unique names/identifiers to the devices and access to the internal settings function.

Central control functions can be provided by incorporating a room manager or smart home controller within the system, or else allowing external control by a GSM link or a PC or PLC via the appropriate control and communication interfaces.

Eaton systems integrators, fully trained on the application of xComfort, will be pleased to assist with the full integration of a building system.

CSEZ-01/12

Sensors

Description	Eaton list number
RF analogue input unit 2-channel (0-10VDC, 0-20mA, 4-20mA, PT1000)	**CAEE-02/01**
Flush mounted power supply for analogue input and impulse counting	**CMMZ-00/13**
RF energy measuring module	**CEMU-01/04**
RF energy measuring module with sensor (up to 23kW)	**CEMU-01/03**
RF energy meter adaptor plug (3 - 2990W)	**CEMP-01/13**
RF temperature input unit 2-channel	**CTEU-02/01**
Temperature sensor – range -50 to 180°C	**CSEZ-01/01**
Temperature sensor – range -50 to 200°C	**CSEZ-01/36**
Living room enclosure use with **CSEZ-01/01**	**CSEZ-01/24**
Outdoor enclosure use with **CSEZ-01/01**	**EB-Z/SE/01/03**
Fix-to-pipe unit use with **CSEZ-01/01**	**EB-Z/SE/01/04**
Window contact, normally open, surface mounted	**CSEZ-01/06**
Window contact, normally closed, surface mounted	**CSEZ-01/25**
Window contact, normally open, flush mounted	**CSEZ-01/07**
Brightness sensor - Indoor 0-10VDC (3-60.000 lux, Out 0-10VDC)	**CSEZ-01/14**
Brightness sensor - Outdoor 0-10VDC (3-60.000 lux, Out 0-10VDC)	**CSEZ-01/15**
Air quality sensor 0–10VDC	**CSEZ-01/16**
Outdoor temperature + humidity sensor (10-90%, -20 - 80°C)	**CSEZ-01/17**
Water leakage sensor 9V use with **CBEU-02/02**	**CSEZ-01/18**
Smoke detector (9V battery supplied) use with adapter module CSEZ-01/20 and **CBEU-02/02**	**CSEZ-01/19**
Power adaptor for RF PIR motion detector	**CMMZ-00/08**

CHVZ-01/03

Actuators

Description	Eaton list number
Mains powered radiator valve actuator 230VAC (must be used with RF switching actuator or multi heating actuator)	CHVZ-01/04
RF multi heating actuator (12 channels)	CHAZ-01/12
External receiver for the multi channel heating actuator	CK0Z-00/12
RF heating actuator for electrical heater panels	CHAZ-01/01
RF battery powered radiator valve actuator	CHVZ-01/03
RF radiator valve actuator adaptor set M28 x 1.5	CMMZ-00/36
Compact signal emitter (must be used with RF switching actuator)	CSGZ-02/01
Flashing light signal emitter	CSGZ-01/02

CHCA-00/01

Control & communication

Description	Eaton list number
Smart home controller (SHC)	CHCA-00/01
British standard adapter for SHC	CMMZ-00/37
RF ethernet coms interface – LAN	CCIA-02/01
RF ethernet coms interface – LAN power over ethernet	CCIA-03/01
Power adaptor – 5V mini USB	CMMZ-00/33
RF room controller switch/night time reduction	CRCA-00/04
RF room controller with night time reduction and humidity sensor	CRCA-00/05
RF room manager – white	CRMA-00/03
RF room manager – silver	CRMA-00/07
RF router	CROU-00/01-S
RF router + logic	CROU-00/01-SL
RF USB configuration stick	CK0Z-00/13
RF USB communication stick	CKOZ-00/14
RF RS232 communication interface	CKOZ-00/03
DIN rail clip for actuators	CMMZ-00/30

The stylish range of Memera full metal consumer units have been designed to comply with BSEN 61439-3 and BS7671 Amendment 3 IET wiring regulations. The range includes both single and dual rail units accommodating up to 38 outgoing ways in various configurations to meet all possible application needs.

Complementing the range is an extensive array of devices including MCBs, RCBOs RCDs and DIN rail mountable control and switching devices.

MEMERA consumer units
Metalclad surface and flush mounted consumer units

See pages 121-122 for technical data and overall dimensions.

EAS2S

Isolator controlled full metal clad surface mounting consumer units

Material	Description	No of ways	Isolator rating (A)	RCD 1 rating (A)	Sens. (mA)	RCD 2 Rating (A)	Sens. (mA)	Eaton list number
179407	2 way metal consumer unit 63A isolator	2	63	-	-	-	-	**EAS2S**
179408	6 way metal consumer unit 100A isolator	6	100	-	-	-	-	**EAS6S**
179409	10 way metal consumer unit 100A isolator	10	100	-	-	-	-	**EAS10S**
179410	12 way metal consumer unit 100A isolator	12	100	-	-	-	-	**EAS12S**
179411	14 way metal consumer unit 100A isolator	14	100	-	-	-	-	**EAS14S**
179412	18 way metal consumer unit 100A isolator	18	100	-	-	-	-	**EAS18S**
183294	20 way metal consumer unit 100A isolator	20	100	-	-	-	-	**EAS20S**
179413	26 way metal consumer unit 100A isolator	26	100	-	-	-	-	**EAS26S**
179414	38 way metal consumer unit 100A isolator	38	100	-	-	-	-	**EAS38S**

EAS6H100S

RCD controlled full metal clad surface mounting consumer units

Material	Description	No of ways	Isolator rating (A)	RCD 1 rating (A)	Sens. (mA)	RCD 2 Rating (A)	Sens. (mA)	Eaton list number
179415	2 way metal consumer unit 40A 30mA RCD	2	-	40	30	-	-	**EAS2H40S**
179416	2 way metal consumer unit 63A 30mA RCD	2	-	63	30	-	-	**EAS2H63S**
179417	6 way metal consumer unit 63A 30mA RCD	6	-	63	30	-	-	**EAS6H63S**
179418	6 way metal consumer unit 80A 30mA RCD	6	-	80	30	-	-	**EAS6H80S**
179419	6 way metal consumer unit 100A 30mA RCD	6	-	90	30	-	-	**EAS6H100S**
179420	10 way metal consumer unit 100A 30mA RCD	10	-	90	30	-	-	**EAS10H100S**
179421	12 way metal consumer unit 100A 30mA RCD	12	-	90	30	-	-	**EAS12H100S**
179422	18 way metal consumer unit 100A 30mA RCD	18	-	90	30	-	-	**EAS18H100S**
183295	20 way metal consumer unit 100A 30mA RCD	20	-	90	30	-	-	**EAS20H100S**

EAS8H80DS

Split load full metal clad surface mounting consumer units

Material	Description	No of ways	Isolator rating (A)	RCD 1 rating (A)	Sens. (mA)	RCD 2 Rating (A)	Sens. (mA)	Eaton list number
179423	8 way metal consumer unit 63A 30mA split load	8	100	63	30	-	-	**EAS8H63DS**
179424	8 way metal consumer unit 80A 30mA split load	8	100	80	30	-	-	**EAS8H80DS**
179425	10 way metal consumer unit 63A 30mA split load	10	100	63	30	-	-	**EAS10H63DS**
179426	10 way metal consumer unit 80A 30mA split load	10	100	80	30	-	-	**EAS10H80DS**
179427	16 way metal consumer unit 80A 30mA split load	16	100	80	30	-	-	**EAS16H80DS**
183296	18 way metal consumer unit 80A 30mA split load	18	100	80	30	-	-	**EAS18H80DS**
179428	24 way metal consumer unit 80A 30mA split load	24	100	80	30	-	-	**EAS24H80DS**
179429	36 way metal consumer unit 80A 30mA split load	36	100	80	30	-	-	**EAS36H80DS**

EAS10H80H80DS

Dual RCD full metal clad surface mounting consumer units

Material	Description	No of ways	Isolator rating (A)	RCD 1 rating (A)	Sens. (mA)	RCD 2 Rating (A)	Sens. (mA)	Eaton list number
179430	10 way metal consumer unit dual RCD 30mA 63A + 63A	10	100	63	30	63	30	**EAS10H63H63DS**
179431	10 way metal consumer unit dual RCD 30mA 80A + 63A	10	100	80	30	63	30	**EAS10H80H63DS**
179432	10 way metal consumer unit dual RCD 30mA 80A + 80A	10	100	80	30	80	30	**EAS10H80H80DS**
179433	14 way metal consumer unit dual RCD 30mA 63A + 63A	14	100	63	30	63	30	**EAS14H63H63DS**
179434	14 way metal consumer unit dual RCD 30mA 80A + 63A	14	100	80	30	63	30	**EAS14H80H63DS**
179435	14 way metal consumer unit dual RCD 30mA 80A + 80A	14	100	80	30	80	30	**EAS14H80H80DS**
183297	16 way metal consumer conit dual RCD 30mA 63A + 63A	16	100	63	30	63	30	**EAS16H63H63DS**
183298	16 way metal consumer unit dual RCD 30mA 80A + 63A	16	100	80	30	63	30	**EAS16H80H63DS**
183299	16 way metal consumer unit dual RCD 30mA 80A + 80A	16	100	80	30	80	30	**EAS16H80H80DS**
179436	22 way metal consumer unit dual RCD 30mA 80A + 80A	22	100	80	30	80	30	**EAS22H80H80DS**
179437	22 way metal consumer unit dual RCD 30mA 80A + 63A	22	100	80	30	63	30	**EAS22H80H63DS**
179438	34 way metal consumer unit dual RCD 30mA 80A + 80A	34	100	80	30	80	30	**EAS34H80H80DS**
179439	34 way metal consumer unit dual RCD 30mA 80A + 63A	34	100	80	30	63	30	**EAS34H80H63DS**

EAS16H80H80DS

Dual tariff full metal clad surface mounting consumer units

Material	Description	No of ways	Isolator rating (A)	RCD 1 rating (A)	Sens. (mA)	RCD 2 Rating (A)	Sens. (mA)	Eaton list number
179440	10 way metal consumer unit dual tariff 2 x 100A	10	100	-	-	-	-	**EAS10DDS**
179441	16 way metal consumer unit dual tariff 2 x 100A	16	100	-	-	-	-	**EAS16DDS**

Dual tariff full metal clad surface mounting consumer units

See pages 123-124 for technical data and overall dimensions

EAS2SF

Isolator controlled full metal clad flush mounting consumer units

Material	Description	No of ways	Isolator rating (A)	RCD 1 rating (A)	Sens. (mA)	RCD 2 Rating (A)	Sens. (mA)	Eaton list number
179451	2 way metal consumer unit 63A isolator flush	2	63	-	-	-	-	**EAS2SF**
179452	6 way metal consumer unit 100A isolator flush	6	100	-	-	-	-	**EAS6SF**
179453	10 way metal consumer unit 100A isolator flush	10	100	-	-	-	-	**EAS10SF**
179454	12 way metal consumer unit 100A isolator flush	12	100	-	-	-	-	**EAS12SF**
179455	14 way metal consumer unit 100A isolator flush	14	100	-	-	-	-	**EAS14SF**
179456	18 way metal consumer unit 100A isolator flush	18	100	-	-	-	-	**EAS18SF**
183301	20-way metal consumer unit 2-pole isolator flush	20	100	-	-	-	-	**EAS20SF**
179457	26 way metal consumer unit 100A isolator flush	26	100	-	-	-	-	**EAS26SF**
179458	38 way metal consumer unit 100A isolator flush	38	100	-	-	-	-	**EAS38SF**

EAS2H40SF

RCD controlled full metal clad flush mounting consumer units

Material	Description	No of ways	Isolator rating (A)	RCD 1 rating (A)	Sens. (mA)	RCD 2 Rating (A)	Sens. (mA)	Eaton list number
179459	2 way metal consumer unit 40A 30mA RCD flush	2	-	40	30	-	-	**EAS2H40SF**
179460	2 way metal consumer unit 63A 30mA RCD flush	2	-	63	30	-	-	**EAS2H63SF**
179461	6 way metal consumer unit 63A 30mA RCD flush	6	-	63	30	-	-	**EAS6H63SF**
179462	6 way metal consumer unit 80A 30mA RCD flush	6	-	80	30	-	-	**EAS6H80SF**
179463	6 way metal consumer unit 100A 30mA RCD flush	6	-	90	30	-	-	**EAS6H100SF**
179464	10 way metal consumer unit 100A 30mA RCD flush	10	-	90	30	-	-	**EAS10H100SF**
179465	12 way metal consumer unit 100A 30mA RCD flush	12	-	90	30	-	-	**EAS12H100SF**
179466	18 way metal consumer unit 100A 30mA RCD flush	18	-	90	30	-	-	**EAS18H100SF**
183302	20-way metal consumer unit 100a 30ma rcd flush	20	-	90	30	-	-	**EAS20H100SF**

EAS8H63DSF

Split load full metal clad flush mounting consumer units

Material	Description	No of ways	Isolator rating (A)	RCD 1 rating (A)	Sens. (mA)	RCD 2 Rating (A)	Sens. (mA)	Eaton list number
179467	8 way metal consumer unit 63A 30mA split load flush	8	100	63	30	-	-	**EAS8H63DSF**
179468	8 way metal consumer unit 80A 30mA split load flush	8	100	80	30	-	-	**EAS8H80DSF**
179469	10 way metal consumer unit 63A 30mA split load flush	10	100	63	30	-	-	**EAS10H63DSF**
179470	10 way metal consumer unit 80A 30mA split load flush	10	100	80	30	-	-	**EAS10H80DSF**
179471	16 way metal consumer unit 80A 30mA split load flush	16	100	80	30	-	-	**EAS16H80DSF**
183303	18 way metal consumer unit 80A 30mA split load flush	18	100	80	30	-	-	**EAS18H80DSF**
179472	24 way metal consumer unit 80A 30mA split load flush	24	100	80	30	-	-	**EAS24H80DSF**
179473	36 way metal consumer unit 80A 30mA split load flush	36	100	80	30	-	-	**EAS36H80DSF**

EAS10H63H63DSF

Dual RCD full metal clad flush mounting consumer units

Material	Description	No of ways	Isolator rating (A)	RCD 1 rating (A)	Sens. (mA)	RCD 2 Rating (A)	Sens. (mA)	Eaton list number
179474	10 way metal consumer unit dual RCD 30mA 63A + 63A flush	10	100	63	30	63	30	**EAS10H63H63DSF**
179475	10 way metal consumer unit dual RCD 30mA 80A + 63A flush	10	100	80	30	63	30	**EAS10H80H63DSF**
179476	10 way metal consumer unit dual RCD 30mA 80A + 80A flush	10	100	80	30	80	30	**EAS10H80H80DSF**
179478	14 way metal consumer unit dual RCD 30mA 63A + 63A flush	14	100	63	30	63	30	**EAS14H63H63DSF**
179479	14 way metal consumer unit dual RCD 30mA 80A + 63A flush	14	100	80	30	63	30	**EAS14H80H63DSF**
179480	14 way metal consumer unit dual RCD 30mA 80A + 80A flush	14	100	80	30	80	30	**EAS14H80H80DSF**
183304	16 way metal consumer unit dual RCD 30mA 63A + 63A flush	16	100	63	30	63	30	**EAS16H63H63DSF**
183305	16 way metal consumer unit dual RCD 30mA 80A + 63A flush	16	100	80	30	63	30	**EAS16H80H63DSF**
183306	16 way metal consumer unit dual RCD 30mA 80A + 80A flush	16	100	80	30	80	30	**EAS16H80H80DSF**
179481	22 way metal consumer unit dual RCD 30mA 80A + 80A flush	22	100	80	30	80	30	**EAS22H80H80DSF**
179482	22 way metal consumer unit dual RCD 30mA 80A + 63A flush	22	100	80	30	63	30	**EAS22H80H63DSF**
179483	34 way metal consumer unit dual RCD 30mA 80A + 80A flush	34	100	80	30	80	30	**EAS34H80H80DSF**
179484	34 way metal consumer unit dual RCD 30mA 80A + 63A flush	34	100	80	30	63	30	**EAS34H80H63DSF**

EAS16DDSF

Dual tariff full metal clad flush mounting consumer units

Material	Description	No of ways	Isolator rating (A)	RCD 1 rating (A)	Sens. (mA)	RCD 2 Rating (A)	Sens. (mA)	Eaton list number
179485	10 way metal consumer unit dual tariff 2 x 100A flush	10	100	-	-	-	-	**EAS10DDSF**
179486	16 way metal consumer unit dual tariff 2 x 100A flush	16	100	-	-	-	-	**EAS16DDSF**

EASDL

Accessories

Material	Description	Eaton list number
179450	Door lock assembly	**EASDL**
176441	1 way cover blanking piece	**ABP1**
156472	1 way full module blanking piece	**EMBP**
183308	Meter tail gland kit M32 plastic 16mm^2 tails	**EASTKEP32**
183309	Meter tail gland kit M40 plastic 25mm^2 tails	**EASTKEP40**
183310	Meter tail gland kit M32 brass 16mm^2 tails	**EASTKEB32**
183311	Meter tail gland kit M40 brass 25mm^2 tails	**EASTKEB40**
N/A	100A 100mA selective TD selective RCCB incomer (maximum 90A in consumer unit)	**EAM1002MT**

All standard Memera consumer units can be pre-configured as factory built assemblies for specific project applications for one time use or indeed for continued application as a customised product.

Customisation can include the following features:

- Fitting of outgoing MCB's and RCBO's
- Fitting of timers, contactors and transformers etc.
- Fitting of customised labelling and end user logos
- Fitting of surge suppresion devices
- Fitting of both MID or non MID approved digital kWh meters
- Fitting of secondary 2 pole RCBO's for connection of renewable energy sources such as PV installations.
- Non-standard enclosure configurations.
- Any combination of the above features.

Typical pre-configured EAS consumer unit fitted and labelled to customer specific requirements.

Example shown – **EAS10SR** fitted with reversed pole main switch, fitted RCBOs and bespoke labelling.

Typical customised configurations are normally based upon standard boards and can be fully configured with outgoing protective devices along with timers, contactors, transformers and kWh meters etc. to meet end client requirements. The boards can be simply equipped with devices just clipped to DIN rail, for final onsite configuration by the installer, or else full fitted and wired up internally ready for final installation.

Example shown - **EAS14H80H80DS** dual RCD consumer unit fully fitted with devices and a digital MID approved kWh meter.

See page 125 for technical data and overall dimensions

IKA-1/4-ST-UV

Enclosures moulded – IP65

Description	Additional features	Finish	Number of modules	IP rating	Eaton list number
DIN rail enclosure 4 module	Transparent door & N/PE	Moulded	4	65	**IKA-1/4-ST-UV**
DIN rail enclosure 6 module	Transparent door & N/PE	Moulded	6	65	**IKA-1/6-ST-UV**
DIN rail enclosure 8 module	Transparent door & N/PE	Moulded	8	65	**IKA-1/8-ST-UV**

AN2EBD

Enclosures moulded – IP40

Description	Additional features	Finish	Number of modules	IP rating	Eaton list number
DIN rail enclosure 2 module	Sealable terminal access	Moulded	2	40	**AN2**
DIN rail enclosure 2 module	Fitted 100A SPSN isolator	Moulded	2	40	**AN2D**
DIN rail enclosure 2 module	Sealable access with earth bar	Moulded	2	40	**AN25**
Service isolator 2 module	Fitted 100A SPSN isolator	Moulded	2	40	**AN2EBD**[1]
Service isolator 4 module	Sealable front access	Moulded	4	40	**AN4EBLS**[1]

[1] Independently sealable supply and load terminal covers.

EAN2SEBD

Enclosures metal - IP30

Description	Additional features	Finish	Number of modules	IP rating	Eaton list number
DIN rail enclosure 2 module	Sealable terminal access	Metal	2	30	**EAN2SEBD**
DIN rail enclosure 4 module	Sealable terminal access	Metal	4	30	**EAN4SEBD**
Service Isolator 2 module	Fitted 100A SPSN isolator	Metal	2	30	**EAN2SEBD1001N**

See pages 126-131 for technical data and overall dimensions.

EAD20B

Miniature circuit breakers – 6kA, trip type B, 1P

Description	Rating (A)	Trip type	Short circuit rating (kA)	Pole configuration	Width (mm)	Eaton list number
MCB	2	B	6	1P	18	**EAD02B**
MCB	4	B	6	1P	18	**EAD04B**
MCB	6	B	6	1P	18	**EAD06B**
MCB	10	B	6	1P	18	**EAD10B**
MCB	13	B	6	1P	18	**EAD13B**
MCB	16	B	6	1P	18	**EAD16B**
MCB	20	B	6	1P	18	**EAD20B**
MCB	25	B	6	1P	18	**EAD25B**
MCB	32	B	6	1P	18	**EAD32B**
MCB	40	B	6	1P	18	**EAD40B**
MCB	50	B	6	1P	18	**EAD50B**
MCB	63	B	6	1P	18	**EAD63B**

EAD20C

Miniature circuit breakers – 6kA, trip type C, 1P

Description	Rating (A)	Trip type	Short circuit rating (kA)	Pole configuration	Width (mm)	Eaton list number
MCB	2	C	6	1P	18	**EAD02C**
MCB	4	C	6	1P	18	**EAD04C**
MCB	6	C	6	1P	18	**EAD06C**
MCB	10	C	6	1P	18	**EAD10C**
MCB	13	C	6	1P	18	**EAD13C**
MCB	16	C	6	1P	18	**EAD16C**
MCB	20	C	6	1P	18	**EAD20C**
MCB	25	C	6	1P	18	**EAD25C**
MCB	32	C	6	1P	18	**EAD32C**
MCB	40	C	6	1P	18	**EAD40C**
MCB	50	C	6	1P	18	**EAD50C**
MCB	63	C	6	1P	18	**EAD63C**

EMS1001N

Main load disconnector switch (isolator)

Description	Rating (A)	Short circuit rating (kA)	Width	Eaton list number
EMS 100A SP isolator	100	10	1 module	**EMS1001**
EMS 100A SPN isolator	100	10	2 module	**EMS1001N**
EMS 100A SPN isolator reversed pole	100	10	2 module	**EMS1001NR**
EMS 100A DP isolator	100	10	2 module	**EMS1002**

EAM632H

RCCBs – 2-pole double module – 10mA–30mA sensitivity

Description	Rating (A)	Sensitivity (mA)	Eaton list number
EAM 16A 2 Pole RCCB 10mA	16	10	**EAM162V**
EAM 16A 2 Pole RCCB 30mA	16	30	**EAM162H**
EAM 25A 2 Pole RCCB 30mA	25	30	**EAM252H**
EAM 40A 2 Pole RCCB 30mA	40	30	**EAM402H**
EAM 63A 2 Pole RCCB 30mA	63	30	**EAM632H**
EAM 80A 2 Pole RCCB 30mA	80	30	**EAM802H**
EAM 80A 2 Pole RCCB 30mA reversed pole	80	30	**EAM802RH**
EAM 100A 2 Pole RCCB 30mA	100	30	**EAM1002H**
EAM 100A 2 Pole RCCB 30mA reversed pole	100	30	**EAM1002RH**

EAM252M

RCCBs – 2-pole double module – 100mA sensitivity

Description	Rating (A)	Sensitivity (mA)	Eaton list number
EAM 25A 2 Pole RCCB 100mA	25	100	**EAM252M**
EAM 40A 2 Pole RCCB 100mA	40	100	**EAM402M**
EAM 63A 2 Pole RCCB 100mA	63	100	**EAM632M**
EAM 80A 2 Pole RCCB 100mA	80	100	**EAM802M**
EAM 100A 2 Pole RCCB 100mA	100	100	**EAM1002M**
EAM 100A 2 Pole RCCB 100mA reversed pole	100	100	**EAM1002RM**
EAM 100A 2 Pole RCCB 100mA selective time delay	100	100	**EAM1002MT**

EAM802M

RCCBs – 2-pole double module – 300mA sensitivity

Description	Rating (A)	Sensitivity (mA)	Eaton list number
EAM 80A 2 Pole RCCB 300mA	80	300	**EAM802L**
EAM 80A 2 Pole RCCB 300mA reversed pole	80	300	**EAM802RL**
EAM 100A 2 Pole RCCB 300mA	100	300	**EAM1002L**
EAM 100A 2 Pole RCCB 300mA reversed pole	100	300	**EAM1002RL**

EAD16BH30C

RCBOs – compact single pole single module – trip type B – 30mA sensitivity

Description	Rating (A)	Trip type	Sensitivity (mA)	Eaton list number
EAD 6A 6kA type B SP 30mA RCBO	6	B	30	**EAD06BH30C**
EAD 10A 6kA type B SP 30mA RCBO	10	B	30	**EAD10BH30C**
EAD 16A 6kA type B SP 30mA RCBO	16	B	30	**EAD16BH30C**
EAD 20A 6kA type B SP 30mA RCBO	20	B	30	**EAD20BH30C**
EAD 25A 6kA type B SP 30mA RCBO	25	B	30	**EAD25BH30C**
EAD 32A 6kA type B SP 30mA RCBO	32	B	30	**EAD32BH30C**
EAD 40A 6kA type B SP 30mA RCBO	40	B	30	**EAD40BH30C**
EAD 45A 6kA type B SP 30mA RCBO	45	B	30	**EAD45BH30C**

EAD16CH30C

RCBOs – compact single pole single module – trip type C – 30mA sensitivity

Description	Rating (A)	Trip type	Sensitivity (mA)	Eaton list number
EAD 6A 6kA type C SP 30mA RCBO	6	C	30	**EAD06CH30C**
EAD 10A 6kA type C SP 30mA RCBO	10	C	30	**EAD10CH30C**
EAD 16A 6kA type C SP 30mA RCBO	16	C	30	**EAD16CH30C**
EAD 20A 6kA type C SP 30mA RCBO	20	C	30	**EAD20CH30C**
EAD 25A 6kA type C SP 30mA RCBO	25	C	30	**EAD25CH30C**
EAD 32A 6kA type C SP 30mA RCBO	32	C	30	**EAD32CH30C**
EAD 40A 6kA type C SP 30mA RCBO	40	C	30	**EAD40CH30C**
EAD 45A 6kA type C SP 30mA RCBO	45	C	30	**EAD45CH30C**

ASPDL

Padlocking device

Description	Eaton list number
Universal device lockout attachment – fits EAD MCBs/RCBOs, EAM RCCBs and EMS isolators.	**ASPDL**

800KMF

Single pole and neutral switchfuse

Description	Fuse rating (A)	Fuse type	Eaton list number
80A SPN switchfuse (fuse fitted)	80	BS 88-3 (BS1361)	**800KMF**
80A Switchfuse cable gland / spreader	–	–	**1MGL**

Technical characteristics (dependant of type)

- Supply voltage 230 V / 50 - 60 Hz (50 Hz for just synchronised versions)
- 50 Hz-mains synchronised or Quartz controlled.
- Daily or weekly programme.
- Manual override switching function.
- Compact 18mm design for restricted space opportunities.

See pages 132-133 for technical data and overall dimensions

TSSD1CO

Analogue time switches - 50 Hz mains synchronised
Standard version

Programme range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Material	QPC	Eaton list number
Day	50 Hz-net	1	CO	-	15 min.	52.5 mm	167391	1	**TSSD1CO**

TSSD1NO

Analogue time switches - 50 Hz mains synchronised
18 mm compact design

Programme range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Material	QPC	Eaton list number
Day	50 Hz-net	1	NO	-	15 min.	17.5mm	167389	1	**TSSD1NO**

TSQD1CO

Analogue time switches - Quartz controlled
Standard version

Programme range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Material	QPC	Eaton list number
Day	Quartz	1	CO	200 hrs	15 min.	52.5 mm	167390	1	**TSQD1CO**

TSQD1NO

Analogue time switches - Quartz controlled
18 mm compact design

Programme range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Material	QPC	Eaton list number
Day	Quartz	1	NO	3 y rs	15 min.	17.5 mm	167388	1	**TSQD1NO**

TSQW1CO

Analogue weekly time switches - Quartz controlled
Standard version

Programme range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Material	QPC	Eaton list number
Week	Quartz	1	CO	200 hrs	2 hrs	52.5 mm	167392	1	**TSQW1CO**

Technical characteristics

- Operating voltage 230 V / 50 - 60 Hz.
- 1 or 2 channel.
- Quartz controlled.
- 3 to 10 year power reserve.
- Weekly programme.
- Manual ON (and depending on type OFF) switching.
- Text-oriented user guidance in display.

- Display back light (switchable).
- Compact 18mm design for restricted space.
- Automatic summer and winter adjustment.
- Holiday programme.
- Zero crossing switching relay for longer life.
- Integrated operating hour counter.
- TSDW1CO, TSDW2CO, TSDW1COA, TSDW1CODG:
- Interface for memory.

See pages 134-137 for technical data and overall dimensions

TSDW1CO

Digital weekly time switches, 1 channel
Standard version

Programme range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Material	QPC	Eaton list number
Week	Quartz	1	CO	10 year	1 min.	35.8mm	167379	1	**TSDW1CO**

TSDW1COMIN

Digital weekly time switches, 1 channel
1TE wide version

Programme range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Material	QPC	Eaton list number
Week	Quartz	1	CO	3 year	1 min.	17.5mm	167383	1	**TSDW1COMIN**

TSDW1CODG

Digital weekly time switches, 1 channel
Version with antenna connection

Programme range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Material	QPC	Eaton list number
Week	Quartz, DCF / GPS	1	CO	10 year	1 sec.	35.8 mm	167382	1	**TSDW1CODG**

TSDW1COA

Digital weekly time switches, 1 channel
Astronomical

Programme range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Material	QPC	Eaton list number
Week	Quartz with astronomical	1	CO	10 year	1 min.	35.8 mm	167381	1	**TSDW1COA**

TSDW2CO

Digital weekly time switches, 2 channels
Standard version

Programme range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	Material	QPC	Eaton list number
Week	Quartz	2	2 x CO	10 year	1 min.	35.8 mm	167380	1	**TSDW2CO**

TLE

Staircase timer
Standard version

Description	Delay off time adjustment	Contact configuration	Width	Material	QPC	Eaton list number
Staircase timer basic function	0.5-15 min	1 x NO	17.5 mm	101064	1	**TLE**

See pages 138-142 for technical data and overall dimensions.

CR2011230A

Contactors, 20 A – ac coil

When several contactors are mounted it is advisable to fit a spacer / blanking module between them.

Description	Rating (A)	Coil voltage (Vac)	Coil voltage (Vdc)	Width (mm)	Contacts	Eaton list number
Contactor	20	230	–	18	1 NO + 1 NC	**CR2011230A**
Contactor	20	230	–	18	2 NC	**CR2002230A**
Contactor	20	230	–	18	2 NO	**CR2020230A**

CR2020024

Contactors, 20 A – ac/dc coil

When several contactors are mounted it is advisable to fit a spacer / blanking module between them.

Description	Rating (A)	Coil voltage (Vac)	Coil voltage (Vdc)	Width (mm)	Contacts	Eaton list number
Contactor	20	230	220	18	1 NO + 1 NC	**CR2011230**
Contactor	20	230	220	18	2 NC	**CR2002230**
Contactor	20	230	220	18	2 NO	**CR2020230**

CR2540230A

Contactors, 25 A – ac coil

When several contactors are mounted it is advisable to fit a spacer / blanking module between them.

Description	Rating (A)	Coil voltage (Vac)	Coil voltage (Vdc)	Width (mm)	Contacts	Eaton list number
Contactor	25	230	–	36	2 NO + 2 NC	**CR2522230A**
Contactor	25	230	–	36	3 NO	**CR2530230A**
Contactor	25	230	–	36	4 NC	**CR2504230A**
Contactor	25	230	–	36	4 NO	**CR2540230A**

CR2504024

Contactors, 25 A – ac/dc coil

When several contactors are mounted it is advisable to fit a spacer / blanking module between them.

Description	Rating (A)	Coil voltage (Vac)	Coil voltage (Vdc)	Width (mm)	Contacts	Eaton list number
Contactor	25	230	220	36	2 NO + 2 NC	**CR2522230**
Contactor	25	230	220	36	3 NO	**CR2530230**
Contactor	25	230	220	36	4 NC	**CR2504230**
Contactor	25	230	220	36	4 NO	**CR2540230**

CR4030024

Contactors, 40 A – ac/dc coil

When several contactors are mounted it is advisable to fit a spacer / blanking module between them.

Description	Rating (A)	Coil voltage (Vac)	Coil voltage (Vdc)	Width (mm)	Contacts	Eaton list number
Contactor	40	230	220	54	2 NC	**CR4002230**
Contactor	40	230	220	54	2 NO	**CR4020230**
Contactor	40	230	220	54	3 NO	**CR4030230**
Contactor	40	230	220	54	4 NO	**CR4040230**

CR6320230

Contactors, 63 A – ac/dc coil

When several contactors are mounted it is advisable to fit a spacer / blanking module between them.

Description	Rating (A)	Coil voltage (Vac)	Coil voltage (Vdc)	Width (mm)	Contacts	Eaton list number
Contactor	63	230	220	54	2 NO	**CR6320230**
Contactor	63	230	220	54	4 NO	**CR6340230**

CRM2540230A

Day/night contactors, 20–25 A – ac coil

When several contactors are mounted it is advisable to fit a spacer / blanking module between them.
Day/night contactors do have a manual override function, which enables the user to bring the contactor in either a forced "ON" or "OFF" position. The contactor can only be brought into the forced "ON" position when it is de-energised. When the contactor is energised the operation will return into the normal/automatic position.

Description	Rating (A)	Coil voltage (Vac)	Width (mm)	Contacts	Eaton list number
Contactor	20	230	18	2 NO	**CRM2020230A**
Contactor	25	230	36	4 NO	**CRM2540230A**

CRA611

Auxiliary contacts

Can be connected at the right-side of the contactor.

Description	Rating (A)	Width (mm)	Contacts	Eaton list number
Auxiliary	6	9	1 NO + 1 NC	**CRA611**
Auxiliary	6	9	2 NO	**CRA620**

CRC63

Terminal covers (sealable)

Description	Rating (A)	Width (mm)	Eaton list number
Terminal cover	For 20	18	**CRC20**
Terminal cover	For 25	36	**CRC25**
Terminal cover	For 40/63	54	**CRC63**

CRS

Spacer / blanking module

Description	Mounting	Width (mm)	Eaton list number
Spacer	DIN rail	9	**CRS**
Blanking module	DIN rail	18	**EMBP**

Z-S230

Impulse switches/relays

Description	Rating (A)	Coil Voltage (Vac)	Poles	Width (mm)	Contacts	Eaton list number
Impulse relay	16	230	1P	18	1 NO	**Z-S230/S**
Impulse relay	16	230	1P	18	1 NO / 1 NC	**Z-S230/S0**

TR-G3/8

Transformers

Description	Volts	Amps	Width (mm)	Module	Eaton list number
Bell Transformer 2 module	4/8	1.0	36	2	**TR-G3/8**
	12	0.6			

With dimensional drawings and specification data, this chapter provides indepth information for all our customers on all products displayed in this product guide.

10A switches

- Supplied with M3.5 fixing screws.

- Switch contact – silver/nickel.

- Shallow depth for maximum wiring space, containing back entry terminal with top and bottom access to terminal screws.

- Rocker operated, quick positive movement, enclosed to minimise dust penetration.

- All screws backed off, ready to accept cable.

- X-rated for fluorescent or inductive loads.

- Modular construction to enable individual replacement of modules.

13A switched sockets

- Supplied with M3.5 fixing screws.

- Switch contact – silver/nickel.

- Shutter is operated by the earth pin.

- Shallow depth for maximum wiring space with back entry tunnel terminal and top access for terminal screws.

- Terminals accept up to 3 x 4mm² or 2 x 6mm² conductors.

- Accidental penetration by "foreign bodies" through the earth aperture is prevented by the rear of the earth contacts.

- Rocker, operated either double pole or single pole switch, quick, positive movement, enclosed to minimise dust penetration.

- Suitable for use with flush or surface mounting box minimum 25mm depth.

20A switches

- Shallow depth, for maximum wiring space with back entry tunnel terminals.

- Separate earth terminals are provided for supply and load cable.

- Rocker operated, quick, positive movement, enclosed to minimise dust penetration.

- Switch contact surfaces – silver/nickel.

- Suitable for use with flush mounting box minimum 35mm deep and upwards.

Flat twin and earth insulated pvc sheathed cable to BS6004: 1984 Table 5 (a)

C.S.A. of Live and Neutral conductors	C.S.A. of associated Earth conductor
1.0mm²	1.0mm²
1.5mm²	1.0mm²
2.5mm²	1.5mm²
4.0mm²	1.5mm²
6.0mm²	2.5mm²
10.0mm²	4.0mm²

Note:

Terminal hole capacities for earth conductors refer to the actual cross sectional area of individual earth conductors.

When using flat twin and earth insulated pvc sheathed cable in accordance with table 5 (a) of BS 6004: 1984 the size of the earth conductor is shown here.

13A connection units

- Supplied with M3.5 fixing screws.

- Shallow depth for maximum wiring space with back entry tunnel terminals and top and right side access for terminal screws.

- Live and Neutral terminals accept up to 3 x 4 mm² or 2 x 6mm² conductors.

- Rocker operated, double pole switched, quick positive movement, enclosed to minimise dust penetration.

- Separate earth terminals are provided for standard and hard wiring connections.

- Suitable for use with flush mounting box 25mm minimum depth.

45A and 50A switches

- Supplied with M3.5 fixing screws.

- Shallow depth for maximum wiring space, with back entry tunnel terminals giving top and bottom access for terminal screws.

- Separate earth terminals provided for supply and load cables.

- Rocker operated, quick, positive movements, enclosed to minimise dust penetration.

- Switch contacts silver/nickel.

Maximum number of conductors per terminal hole

Product		1.0mm²	1.5mm²	2.5mm²	4.0mm²	6.0mm²	10.0mm²
13A socket outlets	L+N	–	–	3	2	1	–
	E	–	6	3	2	1	–
RCD socket outlets	L+N	–	–	5	3	2	–
	E	–	7	3	2	1	–
15A socket outlets	L+N	–	–	3	2	1	–
	E	–	6	3	–	–	–
5A socket outlets	L+N	5	3	1	–	–	–
	E	6	3	1	–	–	–
15A 127V socket outlets	L+N	–	–	4	2	1	–
	E	–	7	3	1	–	–
10A switch range		5	3		–	–	–
15A switch range		–	–	1	–	–	–
250W/400W dimmer switches		4	3	1	–	–	–
20A switch range	L+N	–	–	2	2	1	–
	2 x E	–	7	3	–	–	–
13A connection units	L+N	–	–	4	3	2	–
	E	–	7	3	–	–	–
50A switches	L+N	–	–	–	2	2	1
	2 x E	–	9	5	2	–	–
45A cooker units	L+N	–	–	–	3	2	1
	2 x E	–	10	5	2	–	–
Shaver units	L+N	3	2	1	–	–	–
	E	6	4	–	–	–	–
Cooker outlet plate	2 x (L+N)	–	–	–	3	3	2
	2 x E	–	14	6	3	–	–
Surface mounting boxes, moulded		7	4	2	1	–	–
Surface mounting box for shaver unit		8	5	3	1	–	–

Ceiling roses and pendants
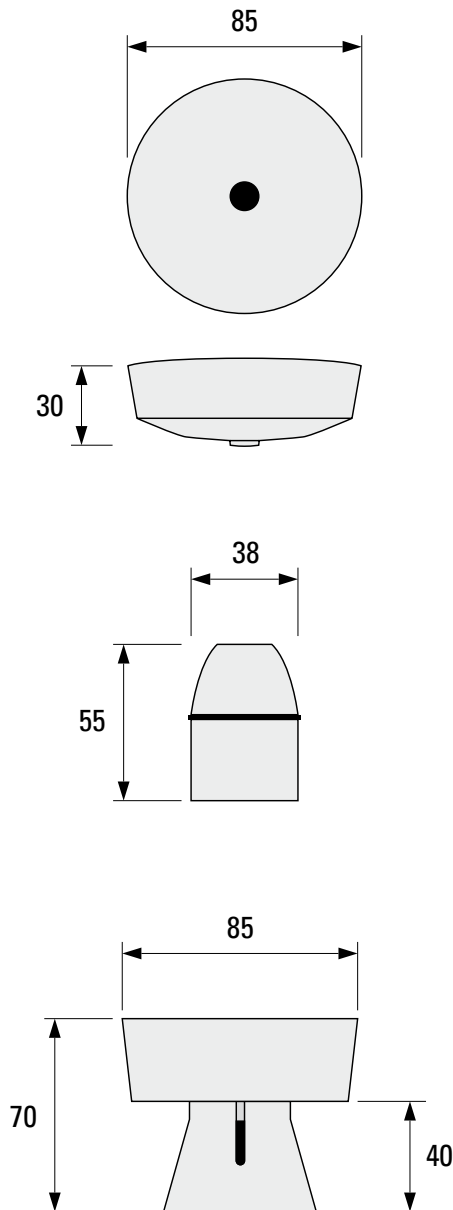
Standards and approvals

- Lampholders comply with BS EN 611841-T2.
- All lamp activated lampholders comply with BS 7895.
- Ceiling roses comply with BS 67.

Technical specifications – electrical

- Lampholders and batten lampholders.
  - Voltage rating: 250V a.c.
  - Maximum rating: 150 watts.
  - Terminal capacity: Live, neutral and earth, $3 \times 1.0mm^2$, $2 \times 1.5mm^2$
- Ceiling roses and base of pre-wired batten lampholders.
  - Voltage rating: 250V a.c.
  - Maximum rating: 6 amps.
  - Terminal capacity: Live, neutral and earth,
  - $4 \times 1.0mm^2$, $3 \times 1.5mm^2$, $1 \times 1.5mm^2$
  - Ambient operating temperature -5ºC to +40ºC
- Ceiling switches.
  - Terminal capacity: $3 \times 1.5mm^2$ conductors.
  - Maximum rating: 6 amps.

Features

- Lamp activated range.
- Plungers remain isolated until lamp is fully inserted.
- Live parts only accessible with tool.
- Incorporates double pole switching mechanism.
- T2 rated - meets the T2 ratings requirements of specification which test at 210ºC lamp cap temperature.

Ceiling roses.

- Clear markings.
- Terminal layout allows cables to be cut to even length.
- Earth terminal point used for easier cable access.

BC3 lamp information

Eaton list number	Lamp life hours	Lumens	Lumens per watt	Energy category
F1267	8000	1200	60	A

Technical specification

Eaton RF software

Frequency:	868.300 MHz
Type of transmission:	Bi directional via encoded telegrams

Mains powered devices/actuators

Back up protection:	By means of a type C miniature circuit breaker (MCB) rated at no more than 16A

Switching and dimming actuators

Rated Voltage:	230VAC, 50Hz		
Protection:	IP20		
Wired connections:	1.5mm single core x 150mm		
Dimensions mm	H	W	D
Wired type	50	46	27
Enclosed type	150	34	28

Battery powered devices

RF Range:	Typically 30–50m = 2 walls and 1 ceiling dependent on wall thickness and material
Battery life:	Depending on usage and type of battery RF pushbutton battery – approx 10 years RF remote control battery – approx 3–5 years Room controller battery – approx 5–7 years
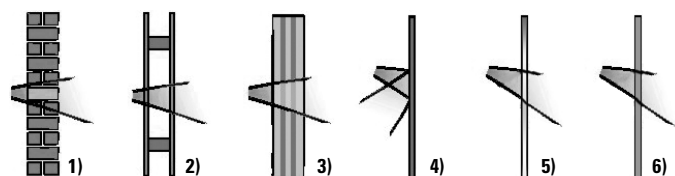
RF System Basic Mode Card

1) Brick-type wall approx. 60–90%
2) Wood and wood frames with sandwich-type plaster board approx. 80–95%
3) Concrete with steel reinforcement approx. 20–60%
4) Metal walls approx. 0–10%
5) Ordinary glass approx. 70–90%. Insulating glass (metalized) approx. 30 - 60%
6) Synthetic material approx. 80–95%

Important: The percentages given are guideline values only.
They may vary subject to the respective conditions.

Allocate functions
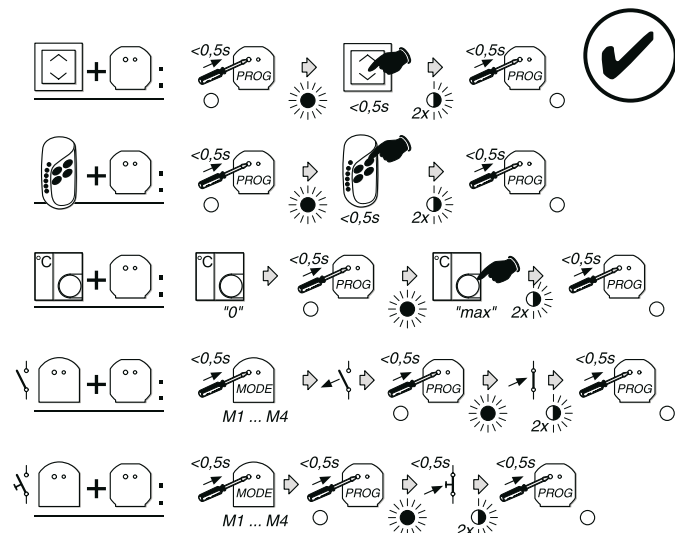
Delete individual sensors
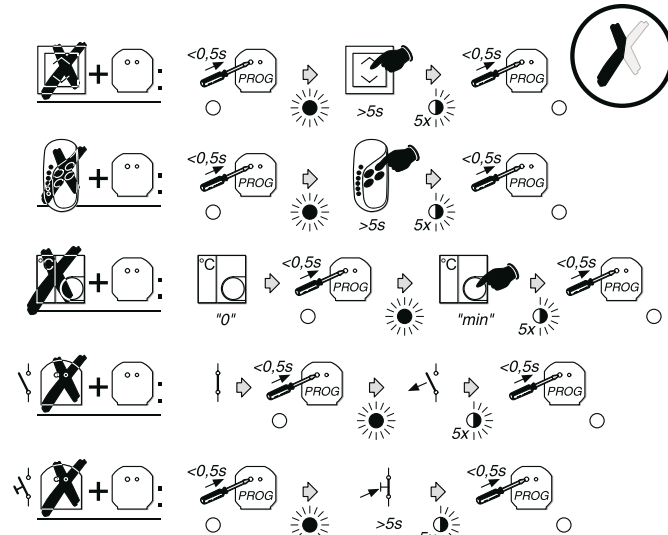
Totally delete an actuator

Manual operation
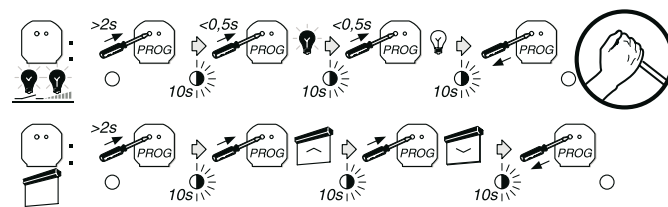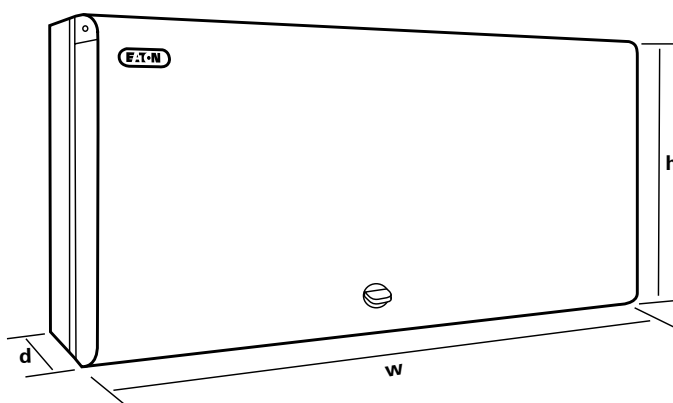
Isolator controlled full metalclad surface mounting consumer units

Material	Description	Dimensions (mm)			Eaton list number
		w	h	d	
179407	2 way metal consumer unit 63A isolator	179	223	113	EAS2S
179408	6 way metal consumer unit 100A isolator	251	223	113	EAS6S
179409	10 way metal consumer unit 100A isolator	323	223	113	EAS10S
179410	12 way metal consumer unit 100A isolator	358	223	113	EAS12S
179411	14 way metal consumer unit 100A isolator	394	223	113	EAS14S
179412	18 way metal consumer unit 100A isolator	464	223	113	EAS18S
183294	20 way metal consumer unit 2-pole isolator	499	223	113	EAS20S
179413	26 way metal consumer unit 100A isolator	358	420	113	EAS26S
179414	38 way metal consumer unit 100A isolator	464	420	113	EAS38S

RCD controlled full metalclad surface mounting consumer units

Material	Description	Dimensions (mm)			Eaton list number
		w	h	d	
179415	2 way metal consumer unit 40A 30mA RCD	179	223	113	EAS2H40S
179416	2 way metal consumer unit 63A 30mA RCD	179	223	113	EAS2H63S
179417	6 way metal consumer unit 63A 30mA RCD	251	223	113	EAS6H63S
179418	6 way metal consumer unit 80A 30mA RCD	251	223	113	EAS6H80S
179419	6 way metal consumer unit 100A 30mA RCD	251	223	113	EAS6H100S
179420	10 way metal consumer unit 100A 30mA RCD	323	223	113	EAS10H100S
179421	12 way metal consumer unit 100A 30mA RCD	394	223	113	EAS12H100S
179422	18 way metal consumer unit 100A 30mA RCD	464	223	113	EAS18H100S
183295	20 way metal consumer unit 100A 30mA RCD	499	223	113	EAS20H100S

Split load full metalclad surface mounting consumer units

Material	Description	Dimensions (mm)			Eaton list number
		w	h	d	
179423	8 way metal consumer unit 63A 30mA split load	323	223	113	EAS8H63DS
179424	8 way metal consumer unit 80A 30mA split load	323	223	113	EAS8H80DS
179425	10 way metal consumer unit 63A 30mA split load	358	223	113	EAS10H63DS
179426	10 way metal consumer unit 80A 30mA split load	358	223	113	EAS10H80DS
179427	16 way metal consumer unit 80A 30mA split load	464	223	113	EAS16H80DS
183296	18 way metal consumer unit 80A 30mA split load	499	223	113	EAS18H80DS
179428	24 way metal consumer unit 80A 30mA split load	358	420	113	EAS24H80DS
179429	36 way metal consumer unit 80A 30mA split load	464	420	113	EAS36H80DS

Dual RCD full metalclad surface mounting consumer units

Material	Description	Dimensions (mm)			Eaton list number
		w	h	d	
179430	10 way metal consumer unit dual RCD 30mA 63A + 63A	394	223	113	**EAS10H63H63DS**
179431	10 way metal consumer unit dual RCD 30mA 80A + 63A	394	223	113	**EAS10H80H63DS**
179432	10 way metal consumer unit dual RCD 30mA 80A + 80A	394	223	113	**EAS10H80H80DS**
179433	14 way metal consumer unit dual RCD 30mA 63A + 63A	464	223	113	**EAS14H63H63DS**
179434	14 way metal consumer unit dual RCD 30mA 80A + 63A	464	223	113	**EAS14H80H63DS**
179435	14 way metal consumer unit dual RCD 30mA 80A + 80A	464	223	113	**EAS14H80H80DS**
183297	16 way metal consumer unit dual RCD 30mA 63A + 63A	499	223	113	**EAS16H63H63DS**
183298	16 way metal consumer unit dual RCD 30mA 80A + 63A	499	223	113	**EAS16H80H63DS**
183299	16 way metal consumer unit dual RCD 30mA 80A + 80A	499	223	113	**EAS16H80H80DS**
179436	22 way metal consumer unit dual RCD 30mA 80A + 80A	358	420	113	**EAS22H80H80DS**
179437	22 way metal consumer unit dual RCD 30mA 80A + 63A	358	420	113	**EAS22H80H63DS**
179438	34 way metal consumer unit dual RCD 30mA 80A + 80A	464	420	113	**EAS34H80H80DS**
179439	34 way metal consumer unit dual RCD 30mA 80A + 63A	464	420	113	**EAS34H80H63DS**

Dual tariff full metalclad surface mounting consumer units

Material	Description	Dimensions (mm)			Eaton list number
		w	h	d	
179440	10 way metal consumer unit dual tariff 2 x 100A	358	223	113	**EAS10DDS**
179441	16 way metal consumer unit dual tariff 2 x 100A	464	223	113	**EAS16DDS**
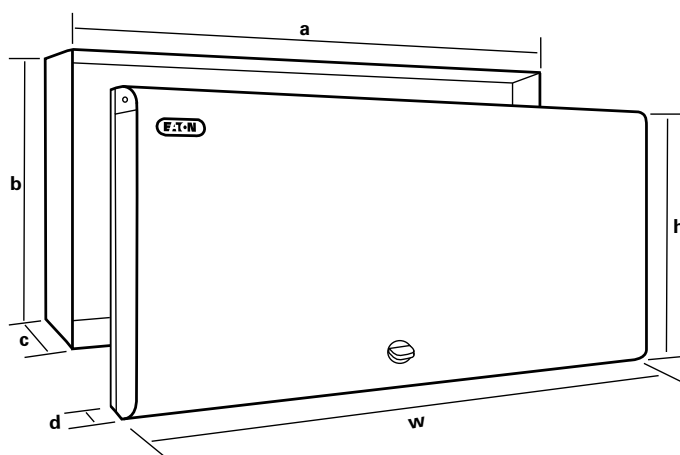
Isolator controlled full metalclad flush mounting consumer units

Material	Description	Front dimensions			Rear dimensions			Eaton list number
		w (mm)	h (mm)	d (mm)	a (mm)	b (mm)	c (mm)	
179451	2 way metal consumer unit 63A isolator flush	219	265	36	171	220	80	**EAS2SF**
179452	6 way metal consumer unit 100A isolator flush	291	265	36	243	220	80	**EAS6SF**
179453	10 way metal consumer unit 100A isolator flush	363	265	36	315	220	80	**EAS10SF**
179454	12 way metal consumer unit 100A isolator flush	398	265	36	350	220	80	**EAS12SF**
179455	14 way metal consumer unit 100A isolator flush	434	265	36	386	220	80	**EAS14SF**
179456	18 way metal consumer unit 100A isolator flush	504	265	36	456	220	80	**EAS18SF**
183301	20 way metal consumer unit 2-pole isolator flush	539	265	36	491	220	80	**EAS20SF**
179457	26 way metal consumer unit 100A isolator flush	398	461	36	350	416	80	**EAS26SF**
179458	38 way metal consumer unit 100A isolator flush	504	461	36	456	416	80	**EAS38SF**

RCD controlled full metalclad flush mounting consumer units

Material	Description	Front dimensions			Rear dimensions			Eaton list number
		w (mm)	h (mm)	d (mm)	a (mm)	b (mm)	c (mm)	
179459	2 way metal consumer unit 40A 30mA RCD flush	219	265	36	171	220	80	**EAS2H40SF**
179460	2 way metal consumer unit 63A 30mA RCD flush	219	265	36	171	220	80	**EAS2H63SF**
179461	6 way metal consumer unit 63A 30mA RCD flush	291	265	36	243	220	80	**EAS6H63SF**
179462	6 way metal consumer unit 80A 30mA RCD flush	291	265	36	243	220	80	**EAS6H80SF**
179463	6 way metal consumer unit 100A 30mA RCD flush	291	265	36	243	220	80	**EAS6H100SF**
179464	10 way metal consumer unit 100A 30mA RCD flush	363	265	36	315	220	80	**EAS10H100SF**
179465	12 way metal consumer unit 100A 30mA RCD flush	398	265	36	350	220	80	**EAS12H100SF**
179466	18 way metal consumer unit 100A 30mA RCD flush	504	265	36	456	220	80	**EAS18H100SF**
183302	20 way metal consumer unit 100A 30mA RCD flush	539	265	36	491	220	80	**EAS20H100SF**

Split load full metalclad flush mounting consumer units

Material	Description	Front dimensions			Rear dimensions			Eaton list number
		w (mm)	h (mm)	d (mm)	a (mm)	b (mm)	c (mm)	
179467	8 way metal consumer unit 63A 30mA split load flush	363	265	36	315	220	80	**EAS8H63DSF**
179468	8 way metal consumer unit 80A 30mA split load flush	363	265	36	315	220	80	**EAS8H80DSF**
179469	10 way metal consumer unit 63A 30mA split load flush	398	265	36	350	220	80	**EAS10H63DSF**
179470	10 way metal consumer unit 80A 30mA split load flush	398	265	36	350	220	80	**EAS10H80DSF**
179471	16 way metal consumer unit 80A 30mA split load flush	504	265	36	456	220	80	**EAS16H80DSF**
183303	18 way metal consumer unit 80A 30mA split load flush	539	265	36	491	220	80	**EAS18H80DSF**
179472	24 way metal consumer unit 80A 30mA split load flush	398	461	36	350	416	80	**EAS24H80DSF**
179473	36 way metal consumer unit 80A 30mA split load flush	504	461	36	456	416	80	**EAS36H80DSF**

Dual RCD full metalclad flush mounting consumer units

Material	Description	Front dimensions			Rear dimensions			Eaton list number
		w (mm)	h (mm)	d (mm)	a (mm)	b (mm)	c (mm)	
179474	10 way metal consumer unit dual RCD 30mA 63A + 63A flush	434	265	36	386	220	80	**EAS10H63H63DSF**
179475	10 way metal consumer unit dual RCD 30mA 80A + 63A flush	434	265	36	386	220	80	**EAS10H80H63DSF**
179476	10 way metal consumer unit dual RCD 30mA 80A + 80A flush	434	265	36	386	220	80	**EAS10H80H80DSF**
179478	14 way metal consumer unit dual RCD 30mA 63A + 63A flush	504	265	36	456	220	80	**EAS14H63H63DSF**
179479	14 way metal consumer unit dual RCD 30mA 80A + 63A flush	504	265	36	456	220	80	**EAS14H80H63DSF**
179480	14 way metal consumer unit dual RCD 30mA 80A + 80A flush	504	265	36	456	220	80	**EAS14H80H80DSF**
183304	16 way metal consumer unit dual RCD 30mA 63A + 63A flush	539	265	36	491	220	80	**EAS16H63H63DSF**
183305	16 way metal consumer unit dual RCD 30mA 80A + 63A flush	539	265	36	491	220	80	**EAS16H80H63DSF**
183306	16 way metal consumer unit dual RCD 30mA 80A + 80A flush	539	265	36	491	220	80	**EAS16H80H80DSF**
179481	22 way metal consumer unit dual RCD 30mA 80A + 80A flush	398	461	36	350	416	80	**EAS22H80H80DSF**
179482	22 way metal consumer unit dual RCD 30mA 80A + 63A flush	398	461	36	350	416	80	**EAS22H80H63DSF**
179483	34 way metal consumer unit dual RCD 30mA 80A + 80A flush	504	461	36	456	416	80	**EAS34H80H80DSF**
179484	34 way metal consumer unit dual RCD 30mA 80A + 63A flush	504	461	36	456	416	80	**EAS34H80H63DSF**

Dual tariff full metalclad flush mounting consumer units

Material	Description	Front dimensions			Rear dimensions			Eaton list number
		w (mm)	h (mm)	d (mm)	a (mm)	b (mm)	c (mm)	
179485	10 way metal consumer unit dual tariff 2 x 100A Flush	398	265	36	350	220	80	**EAS10DDSF**
179486	16 way metal consumer unit dual tariff 2 x 100A Flush	504	265	36	456	220	80	**EAS16DDSF**

Enclosures, dimensional drawings IP65
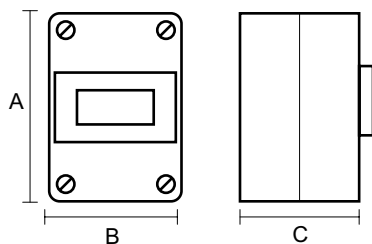
Eaton list number	Description of modules	Finish	Number	IP rating	Dimensions mm		
					A	B	C
IKA-1/4-ST-UV	DIN rail enclosure 4 module	Moulded	4	65	231	166	113
IKA-1/6-ST-UV	DIN rail enclosure 6 module	Moulded	6	65	231	202	113
IKA-1/8-ST-UV	DIN rail enclosure 8 module	Moulded	8	65	231	238	118

Enclosures dimensions IP40
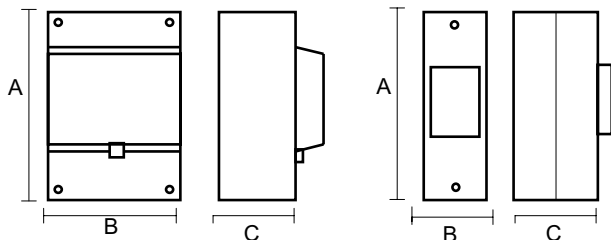
Eaton list number	Description	Finish	Number of modules	IP rating	Dimensions mm		
					A	B	C
AN2	DIN rail enclosure 4 module	Moulded	2	40	135	40	65
AN2D	DIN rail enclosure 6 module	Moulded	2	40	135	40	65
AN25	DIN rail enclosure 8 module	Moulded	2	40	135	50	65
AN2EBD	DIN rail enclosure 6 module	Moulded	2	40	135	40	65
AN4EBLS	DIN rail enclosure 8 module	Moulded	4	40	135	110	88
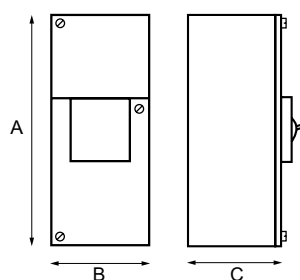
Enclosures metal - IP30

Eaton list number	Description	Finish	Number of modules	IP rating	Dimensions mm		
					A	B	C
EAN2SEBD	DIN rail enclosure 2 module	Metal	2	30	194	70	83
EAN2SEBD1001N	Service Isolator 2 module	Metal	2	30	194	79	83
EAN4SEBD	DIN rail enclosure 4 module	Metal	4	30	194	115	83

Consumer units and enclosures technical data

	Earth	Neutral	Isolator	RCCB	RCBO		MCB
Connection type	Pinch screw	Pinch screw	Box clamp	Box clamp	Box clamp		Box clamp
Screw type	Combination	Combination	Combination	Combination	Combination		Combination
Size	M5	M5	M6	M5	M5	M4	M5
Min cable size	1mm^2	1mm^2	2.5mm^2	1mm^2	1mm^2	1mm^2	1mm^2
Max cable size	16mm^2	16mm^2	50mm^2	35mm^2	25mm^2	16mm^2	25mm^2
Recommended torque	Note 1	Note 1	2.5Nm	2.0Nm	2.0Nm	1.2Nm	2.0Nm
Maximum torque	Note 1	Note 1	5.0Nm	2.4Nm	2.4Nm	1.5Nm	2.4Nm

Note: As terminal is pinch screw, the torque will depend upon cable size and type and should be sufficient to secure termination without damaging conductor strands.

6kA Miniature Circuit Breakers (MCBs) technical data

Eaton's range of 6kA high performance Miniature Circuit Breakers (MCBs) are manufactured to IEC/EN 60898, meeting the latest UK, European and International standards, with ratings from 2A to 63A as standard.

DIN rail mountable and suitable for use with both pin and comb type busbar systems, Eaton's MCBs are suitable for use on 230/240 VAC systems and are calibrated for use at 40°C. These devices suite with the other modular devices including RCBOs, RCCBs and Isolators, for use within Eaton's MEM consumer units and a wide range of other applications.

The Eaton 6kA MCBs are fitted with box clamp terminals suitable for use with cables up to 25mm².

The Eaton 6kA miniature circuit breakers are available with both B and C characteristic curves as standard. Type B MCBs are most commonly used in domestic applications, however the use of type C devices may be desirable e.g. on lighting circuits where high switching surges are involved. Type D devices are not commonly used in other than industrial applications.

IEC/EN 60898 Type	Instantaneous Trip Current (x In)	Typical Application	Eaton 6kA MCB Type
B	3 to 5	Domestic	EAD B
C	5 to 10	Commercial Light Industrial	EAD C
D	10 to 20	General Industrial	–

Type B: Suitable for general, domestic and commercial installations having little or no switching surges

Type C: Suitable for general use in commercial or industrial applications where the greater use of fluorescent lighting and small motors can produce switching surges, which may cause nuisance tripping of type B breakers.

Type D: Suitable for general industrial applications where there are a lot of high inrush switching surges associated with equipment such as transformers, large motors, welding and X ray equipment.

Tripping characteristic type B and C
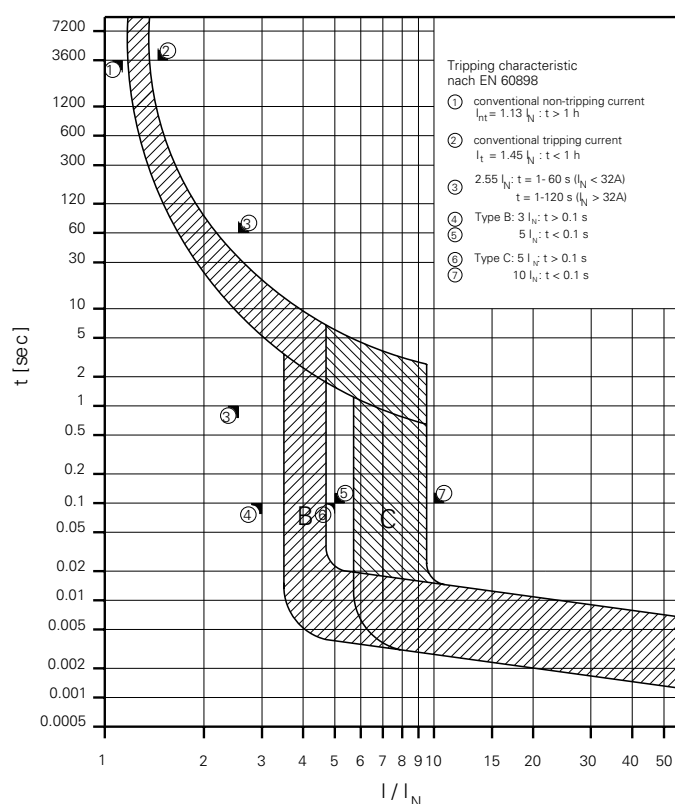
Earth fault loop impedance's (Zs) to provide compliance with BS 7671

The wiring regulations BS 7671 makes specific reference to MCB types and the maximum earth loop impedance allowable to meet the required disconnection times.

It can be seen that it is much easier to achieve adequate disconnection times with type B devices than it is with types C and indeed type D devices.

Maximum earth fault loop impedance i.e. Zs ohms for final circuits fed from Miniature Circuit Breakers MCBs or RCBOs with Uo of 230V, for instantaneous operation giving compliance with 0.4s disconnection time of Reg 411.3.2.2 and 5s disconnection time of 411.3.2.3

Note: A minimum Voltage factor Cmin = 0.95 has been introduced to take account of variations in supply voltage depending on time, place and transformer settings etc., in accordance with Electricity Safety, Quality and Continuity regulations 2002.

The effect of this is to reduce the previous BS7671 maximum earth loop impedance Zs values by 5%.

Table Zs Ohms

Device	Standard	2A	4A	6A	10A	13A	16A	20A	25A	32A	40A	45A	50A	63A
Type B MCB	BS EN 60898	21.85	10.93	7.28	4.37	3.36	2.73	2.19	1.75	1.37	1.09	-	0.87	0.69
Type C MCB	BS EN 60898	10.93	5.46	3.64	2.19	1.68	1.37	1.09	0.87	0.68	0.55	-	0.44	0.35
Type B RCBO	BS EN 61009	-	-	7.28	4.37	3.36	2.73	2.19	1.75	1.37	1.09	0.97	-	-
Type C RCBO	BS EN 61009	-	-	3.64	2.19	1.68	1.37	1.09	0.87	0.68	0.55	0.48	-	-

6kA MCB dimensional drawings
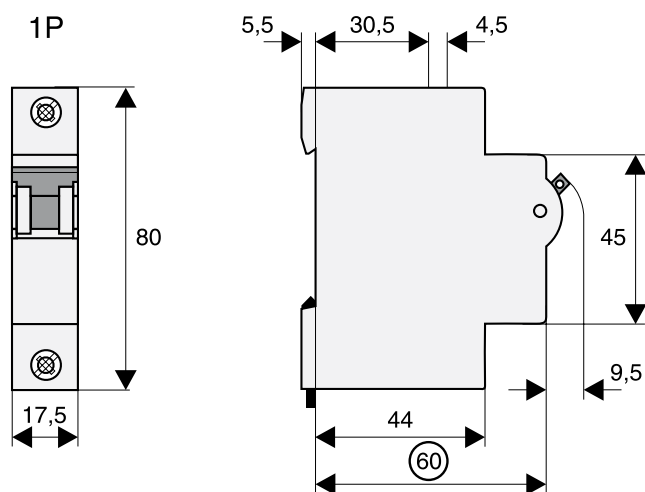
6kA MCB technical data

Product standard	IEC/EN 60898
No of poles	1P
Mechanical specification	
Device width	17.7mm
Terminal type	Box clamp
Terminal capacity	1 – 25mm²
Terminal screw	M5 combination
Terminal torque recommended	2.0Nm - max 2.4Nm
Mounting	DIN rail
Degree of protection	IP 20
Positive contact indication	Yes (Toggle position)
Electrical specification	
Rated voltage	230/240 V AC
Current ratings	2, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63 A
Rated impulse and withstand voltage	4kV (1.2/50 μ sec)
Rated short circuit capacity	6kA
Selectivity class	3 to IEC/ EN 60898
Tripping characteristic	
Instantaneous tripping current I mt	Type B: 3 In < Imt < 5 In Type C: 5 In < Imt < 10 In
Conventional non tripping current	I nt = 1.13 In
Conventional tripping current	It = 1.45 In
Ref/calibration temp	40° C
Number of operating cycles elec	>4000
Number of operating cycles mech	>20000

Main load disconnector switch (Isolators)

The Eaton range of compact modular Isolators are available in Single Pole, Double Pole and Single Pole with Switched Neutral arrangements. Manufactured and tested in accordance with IEC/EN 60947-3 to meet the latest European and International standards.

DIN rail mountable in one or 2 modules width these Isolators are available in 63A and 100A ratings. Suiting with the complete range of Eaton's modular devices, providing positive contact position indication and terminal capacity up to 50 mm², these devices are the ideal choice as a Main switch in Eaton's MEM Memera consumer units and other applications.

With rated short circuit capacity at up to 12.5kA these switches are fully rated and tested to IEC/EN 60947-3 for AC23 duty at 240VAC

Connection diagram
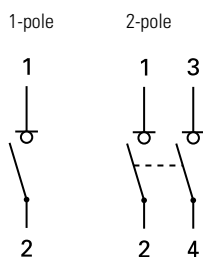
Main load disconnector switch (Isolators) technical data

Specifications

Product standard	IEC/EN 60947-3
No of poles	1P, 2P, 1P+N
Mechanical specification	
Device width	
1p	17.7mm
2p	35mm
Terminal type	Box clamp
Terminal capacity	2.5 – 50mm²
Terminal screw	M6 combination
Terminal torque recommended	2.5Nm - max 5.0Nm
Mounting	DIN rail
Degree of protection	IP 10
Positive contact indication	Yes (Red/Green)
Electrical specification	
Rated voltage	230/240 V AC
Rated current	
AC23	63A, 100A (240V)
Rated peak withstand voltage	6kV
Rated insulation voltage	690V
Rated short circuit capacity	
63A	12.5kA (fuse backup 125A gG max.)
100A	6kA (fuse backup 125A gG max.)
Rated short time withstand Icw	2kA
Rated short circuit making Icm	2.8kA
Endurance	
Number of operating cycles elec	>3000
Number of operating cycles mech	>16000
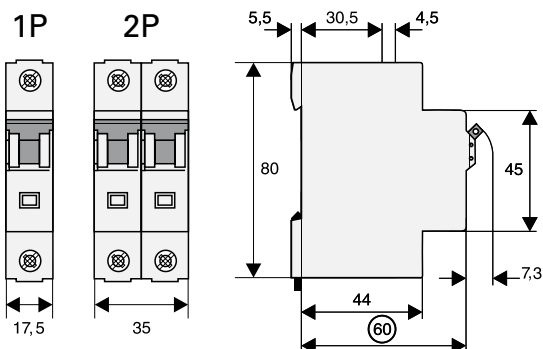
Residual Current Circuit Breakers (RCCBs) technical data

Eaton's range of Residual Current Circuit Breakers without integral Overload protection (RCCBs), are manufactured to IEC/EN 61008 and meet the latest European and International standards.

DIN rail mountable in 2 module width these RCCBs provide protection solutions to a wide range of applications. With standard thermal ratings of 16A to 100A and trip sensitivities of 10mA, 30mA, 100mA and 300mA, these devices can be equipped with a range of modular accessories.

The Eaton RCCBs suite with the complete range of modular devices, and are for use within Eaton's MEM Memera consumer units and other applications.

These devices will accommodate cables up to 35mm^2.

Terminology

RCD – Residual Current Device:- This is the generic term covering a range of devices that are able to detect residual currents sometimes also referred to as earth leakage current. The residual current is measured by detecting the difference between the current flowing in the live and neutral conductors of a circuit and where the residual current is above a predefined level, the RCD will trip. RCDs are available in a range of sensitivities for different applications.

RCCB – Residual Current Circuit Breaker is an RCD which will cause disconnection of the electrical supply should it detect a residual current passing through the device, above a specified tripping current limit e.g. 30mA. This device does not provide over current protection and is therefore also referred to as an RCCB without integral over current protection.

RCBO – Residual Current Circuit Breaker, with Overload protection, is an RCD which will cause disconnection of the electrical supply should it detect a residual current above a specified tripping current limit, combined with integral overload, overcurrent, and shortcircuit protection associated with a miniature circuit breaker.

The 17th Edition of the IEE wiring regulations BS7671 now places much greater emphasis on the use of 30mA RCDs to provide "additional protection" in many areas covered by the regulations, such as circuits feeding socket outlets and for the protection of concealed wiring.

Trip sensitivities

10mA – Provides the highest degree of RCD protection in hazardous environments where supplementary protection against electric shock is required. This very high sensitivity should only be applied to final circuits where a high degree of risk exists.

30mA – Provides a high degree of protection against electric shock due to direct and indirect contact. A 30mA RCD will trip within 40mS when a fault current of 150mA is detected.

This type of RCD is required to satisfy the requirements for "Additional Protection" in accordance with BS7671 (IEE wiring regs.)

100mA – Provides a degree of protection against electric shock resulting from indirect contact, and is generally used to protect a group of circuits as well as providing overall protection against Fire risk. Selective time delay version also available to enable selectivity with downstream 30mA RCDs connected in series.

300mA – Provides a lower level of RCD protection in the form of an overall protection against the risk of fire resulting from faults in electrical wiring etc.

RCCB dimensions (mm)
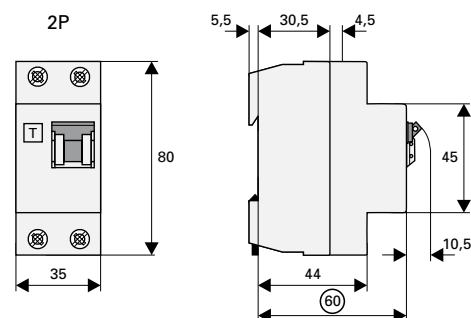
RCCB technical data

Specifications	
Product standard	IEC/EN 61008
No of poles	2P
Mechanical specification	
Device width	35 mm
Terminal type	Box clamp
Terminal capacity	1.5 – 35mm^2
Terminal screw	M5 combination
Terminal torque recommended	2.0Nm - max 2.4Nm
Mounting	DIN rail
Degree of protection	IP 20
Positive contact indication	Yes (Toggle position)
Electrical specification	
Rated voltage	230/240 V AC
Current ratings	16, 40, 63, 80,100 A
Rated impulse and withstand voltage	4kV (1.2/50 µ sec)
Rated short circuit capacity	10kA
Sensitivity	AC
Tripping characteristic	
Rated tripping currents	10, 30, 100, 300 mA
Tripping type	Instantaneous
Number of operating cycles elec	>4000
Number of operating cycles mech	>20000

Compact Residual Current Circuit Breakers – with Overload protection (RCBOs) technical data

Eaton's range of new compact Residual Current Circuit Breakers with integral Overload protection (RCBOs), are manufactured to IEC/EN 61009 and meet the latest European and International standards.

DIN rail mountable in a single module width these RCBOs provide a comprehensive protection solution to a wide range of applications. With standard current ratings from 6A to 45A, in both B and C Type characteristics and a trip sensitivity of 30mA, these devices are the ideal choice for domestic applications.

The Eaton RCBOs suite with the complete range of modular devices, and are for use within Eaton's MEM Memera consumer units and other applications.

These devices will accommodate cables up to 16mm^2.

Trip Sensitivity 30mA Standard

Provides a high degree of protection against electric shock due to direct and indirect contact. A 30mA RCD will trip within 40mS when a fault current of 150mA is detected.

This type of RCD is required to satisfy the requirements for "Additional Protection" in accordance with BS7671 (IEE wiring regs.) Other sensitivities are available on request.

RCBOs technical data

Specifications

Product standard	IEC/EN 61009
No of poles	1P & solid N
Mechanical specification	
Device width	17.7 mm
Terminal type	Box clamp
Mounting	DIN rail
Degree of protection	IP 20
Positive contact indication	Yes (red/green)
Electrical specification	
Rated voltage	230/240 V AC
Current ratings	6, 10, 16, 20, 25, 32, 40, 45A
Rated impulse and withstand voltage	4kV (1.2/50 µ sec)
Rated short circuit capacity	6kA
Sensitivity	AC
Tripping characteristic	
Instantaneous Tripping current I mt	Type B: 3 In < Imt < 5 In
	Type C: 5 In < Imt < 10 In
Conventional non tripping current I nt	1.13 In
Conventional tripping current It	1.45 In
Ref / Calibration temp	40° C
Rated residual tripping current	30mA
Residual tripping type	Instantaneous
Number of operating cycles elec	>4000
Number of operating cycles mech	>20000
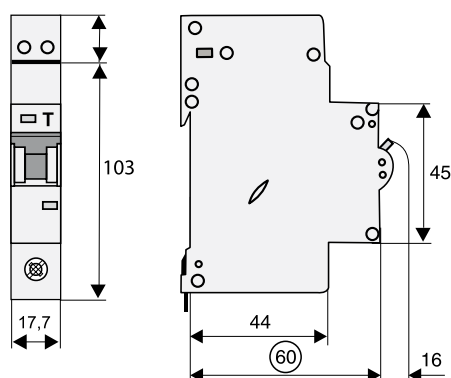
	LOAD	LINE
Terminal capacity	1–16mm^2	1–25mm^2
Terminal screw	M4	M5
Terminal torque recommended	1.2–1.5Nm	2.0–2.5Nm

RCBOs dimensions (mm)

Single pole & neutral switchfuse

The **800KMF** is a fully moulded, compact wall mounted, SP&N switchfuse rated at up to 80A, complying with BS EN 60947-3 for duty AC22B, 240v AC. The unit is fitted with a fully insulated pull out fuse carrier, which will accommodate HRC fuse links complying with BS 88-3 (BS1361) and rated between 45 -80A.

Wall mounted switch fuses technical data

Specification

Product standard	IEC/EN 60947-3					
No of poles	1P+N					
Rated Voltage	230/240VAC					
Terminal capacity: 800KMF	Main terminals	25 mm^2	(Maximum)			
	Earth terminals	16 mm^2	(Maximum)			

Rated current and fuse details

Type	Rating (A)	Class	Finish	IP rating	Fuse (A)	Standard
800KMF	80	AC22	Moulded	40	80	BS 88-3 (BS1361)

Replacement fuse-links

Switch	Standard	Rating (A)	Ordering reference
800KMF	BS 88-3 (BS1361	80	804R/80KR85
800KMF	BS 88-3 (BS1361	60	604R/60KR85
800KMF	BS 88-3 (BS1361	50	504R/50KR85
800KMF	BS 88-3 (BS1361	45A	454R/45KR85

800KMF dimensions (mm)

W 127mm
D 66mm
H 80mm
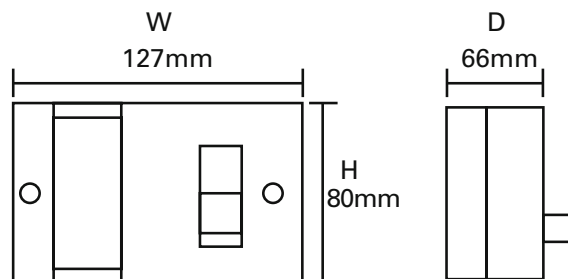
Analogue time switches

	TSSD1CO	TSSD1NO	TSQW1CO	TSQD1CO	TSQD1NO
General					
Operating voltage	230V AC	230 V AC	110 - 230 V AC	110 - 230 V AC	230 - 240 V AC
Frequency	50 Hz	50 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Stand-by power	0.5 W	0.5 W	0.5 W	0.5 W	0.5 W
Time control	Net	Net	Quartz	Quartz	Quartz
Accuracy	acc. Net	acc. Net	± 1 sec. / day	± 1 sec. / day	± 1 sec. / day
Power reserve	-	-	200 hrs / 100 hrs at 110 V	200 hrs/ 100 hrs at 110 V	±3 days
Battery type	-	-	NiMH	NiMH	NiMH
Degree of protection (EN 60529)	IP20	IP20	IP20	IP20	IP20
Ambient temperature	-20 °C...+55 °C	-20 °C...+50 °C	-20 °C...+55 °C	-20 °C...+55 °C	-10 °C...+50 °C
Protection class (EN 60730-1)	II	II	II	II	II
Switching contact(s)					
Type of switching contact	1 x CO	1 x NO	1 x CO	1 x CO	1 x NO
Switching capacity at 250 V~, cos = 1	16 A	16 A	16 A	16 A	16 A
Switching capacity at 250 V~, cos = 0,6	4A	4 A	4 A	4 A	4 A
Programming features					
Period of program	Day	Day	Week	Day	Day
Number of channels	1	1	1	1	1
Minimum cycle time	15 min.	15 min.	2 hrs	15 min.	15 min.
Programmable	every 15 min.	every 15 min.	every 2 hrs	every15 min.	every 15 min.
Program steps	96	96	84	96	96
Manual / Hand / Permanent switching [1]	On, Off, Auto	On, Off, Auto	On, Off, Auto	On, Off, Auto	On, Off, Auto
Switching status indication	x	x	x	x	x
Dimensions and weight					
Number of module width	3	1	3	3	1
Dimensions width	52.5 mm	17.5 mm	52.5 mm	52.5 mm	17.5 mm
Height	90 mm	90 mm	90 mm	90 mm	90 mm
Depth	65.5 mm	65.5 mm	65.5 mm	65.5 mm	65.5 mm
Mounting	DIN-rail	DIN-rail	DIN-rail	DIN-rail	DIN-rail
Terminals					
Terminal screw size	M3.5	M3.5	M3.5	M3.5	M3.5

[1] **Remark**

ON = Permanent ON

OFF = Permanant OFF

Hands = ON or OFF. valid until next program cycle overrules

Auto = According program

Analogue daily and weekly timers - dimensional drawings

TSQD1CO, TSSD1CO, TSQW1CO
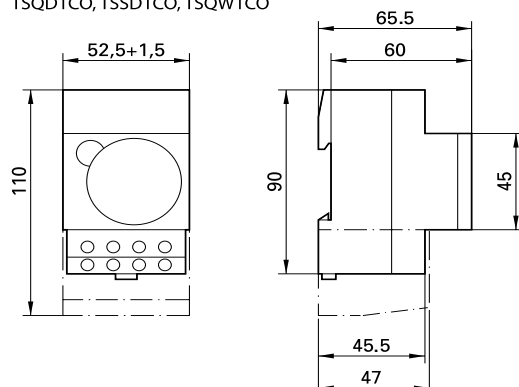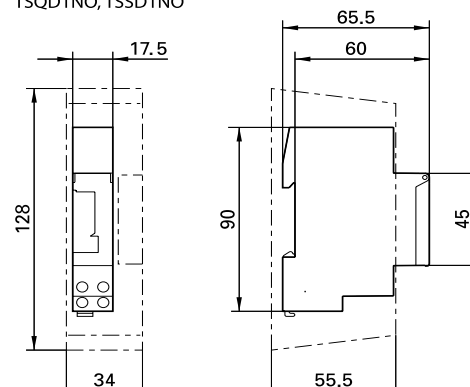
TSQD1NO, TSSD1NO

Analogue daily and weekly time switches - wiring diagrams

TSQD1CO, TSSD1CO, TSQW1CO
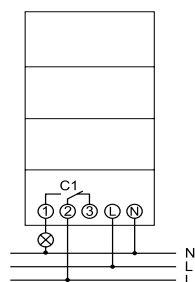
TSQD1NO, TSSD1NO
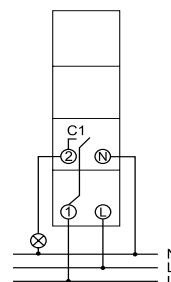
Digital timers - week programme

		TSDW1CO	TSDW1COMIN	TSDW2CO	TSDW1COA	TSDW1CODG
General						
Nominal operating voltage		220 - 240 V AC	240 V AC	220 - 240 V AC	230 - 240 V AC	230 - 240 V AC
Frequency		50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Stand-by power		0,8 W	0,4 W	0,8 W	0,8 W	1,4 W
Time base control [1]		Quartz	Quartz	Quartz	Astro	Quartz or DCF / GPS
Accuracy		± 0,5 sec. / day	±0,5 sec. / day	± 0,5 sec. / day	± 0,5 sec. / day	± 0,5 sec. / day
Power reserve		10 year	10 year	10 year	10 year	10 year
Type of battery		Lithium	Lithium (exchangeable)	Lithium	Lithium	Lithium
Protection class (acc. EN 60529)		IP20	IP20	IP20	IP20	IP20
Permissible ambient temperature		-30 °C...+55 °C	-25 °C...+55 °C	-30 °C...+55 °C	-30 °C...+55 °C	-30 °C...+55 °C
Protection class at proper installation (acc. EN 60730-1)		II	II	II	II	II
Switching contact(s)						
Type of switching contact		1 x CO	1 x CO	2 x CO	1 x CO	1 x CO
Switching capacity at 250 V~, cos = 1		16 A	16 A	16 A	16 A	16 A
Switching capacity bij 250 V~, cos = 0,6		10 A	6 A	10 A	10 A	10 A
Switching capacity for lighting						
- Incandescent lamp		2600 W	1000 W	2600 W	2600 W	2600 W
- Halogen lamp		2600 W	1000 W	2600 W	2600 W	2600 W
Programming features						
Period of programme		Week	Week	Week	Week	Week
Number of channels		1	1	2	1	1
Minimum switching capacity		10 mA	-	10 mA	10 mA	-
Minimum cycle time		1 min.	1 min.	1 min.	1 min.	1 sec.
Maximum programming steps in memory		56	56	56	56	84
Summer / wintertime automatic (or manual on/off)		Yes	Yes	Yes	Yes	Yes
Random programme		No	No	No	No	Yes (2)
Holiday programme		Yes	Yes	Yes	Yes	Yes
Cycle programme		No	No	No	No	Yes
Astro function		No	No	No	Yes	No
Pulse switching		No	No	No	No	Yes
Manual switching [2]		On, Off, Auto	On, Off, Auto	On, Off, Auto	On, Off, Auto	On, Off, Auto
LCD backlighting		Yes	-	Yes	Yes	Yes
PIN code		Yes	Yes	Yes	Yes	Yes
Dimensions and weight						
Number of module width		2	1	2	2	2
Dimensions	Width	35.8 mm	17.5 mm	35.8 mm	35.8 mm	35.8 mm
	Height	90.1 mm	90 mm	90.1 mm	90.1 mm	90.1 mm
	Depth	69.2 mm	65.5 mm	69.2 mm	69.2 mm	69.2 mm
Mounting		DIN-rail	DIN-rail	DIN-rail	DIN-rail	DIN-rail
Terminals						
Terminal type		Spring	Screw	Spring	Spring	Spring

1) Remark:

Astro function: Automatic calculation of sunrise and sunset times

DCF / GPS: Time synchronization is possible by connecting external antenna (TSADCF of TSAGPSKIT).

2) Remark:

ON = Permanent ON

OFF = Permanent OFF

Auto = According Programme

Digital weekly time switches - dimensional drawings

TSDW1CO, TSDW2CO
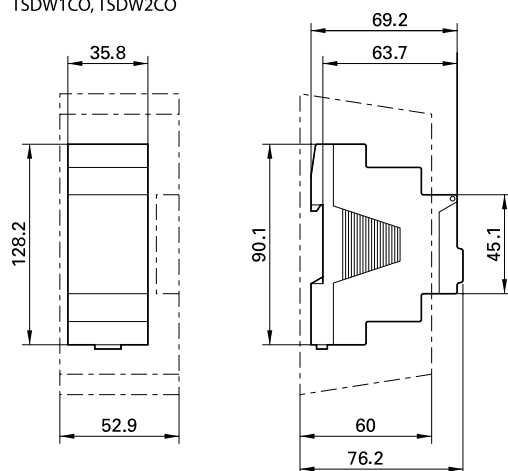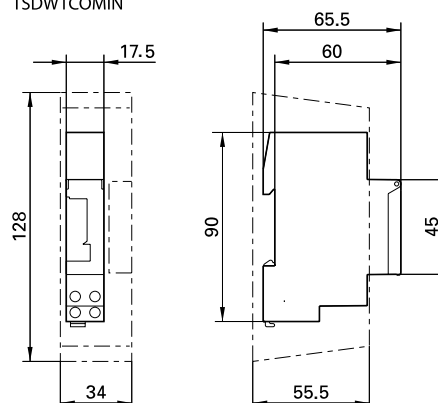
TSDW1COMIN
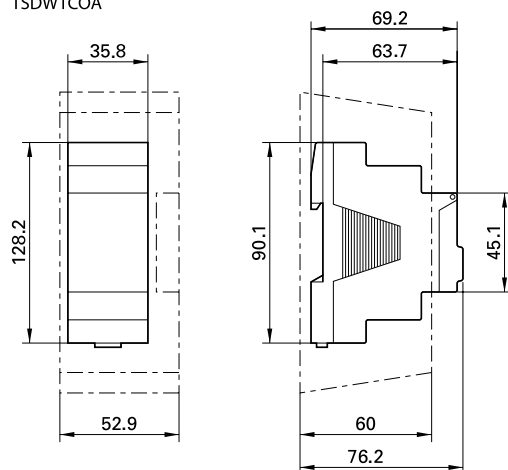
TSDW1COA
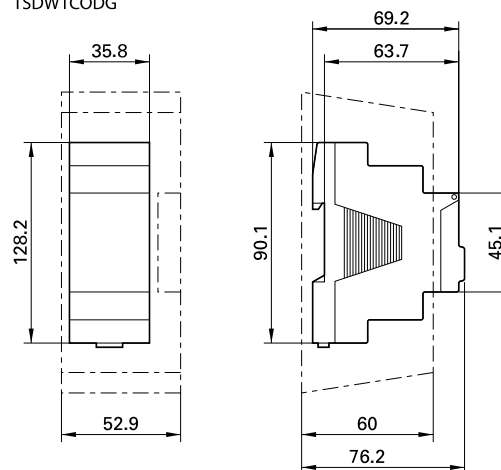
TSDW1CODG

Digital weekly timers - wiring diagrams

TSDW1CO
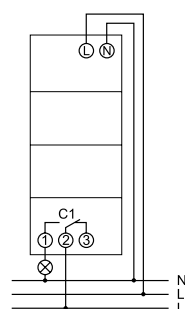
TSDW2CO
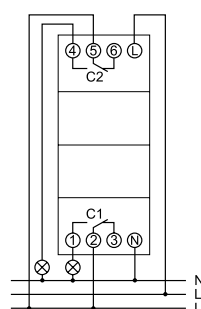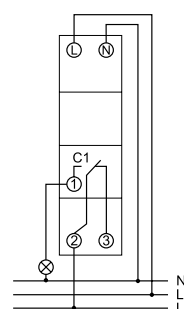
TSDW1COMIN
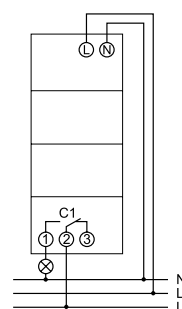
TSDW1COA

TSDW1CODG
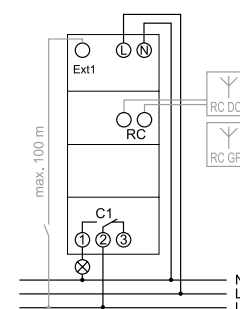
Staircase timer

Staircase Timer	TLE
General	
Nominal operating voltage	230 Vac
Frequency	50 - 60 Hz
Power consumption	6 VA (0.8W)
Time setting	0.5 – 15 min.
Mechanical endurance (switching cycles)	$> 30 \times 10^6$
Electrical endurance (switching cycles)	$> 10 \times 10^5$
Temperature range	-25 °C - +55 °C
Switching contact(s)	
Type of switching contact	1 x NO (not potential free)
Switching capacity at 250 Vac, cos j =1	16 A
Switching capacity for lighting :	
Incandescent	2000 W
Fluorescant	1000 W
Compact fluorescent	500 W
Features	
Maximum load for push button illumination	100 mA
Automatic 3/4 wire detection	Yes
Permanent on function	Yes
Warning before switch off	Yes
Time extension	Yes
Pulse switching (on & off)	Yes
Dimensions	
Number of modules	1 module
Width	17.5 mm
Height	87 mm
Depth	60 mm
Terminals	
Terminal capacity	0.5 - 4.00^2 mm
Maximum torque	0.8 Nm

Staircase timer - dimensional drawing
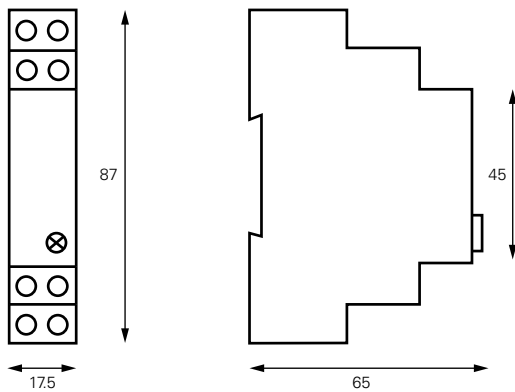
Staircase timer TLE - example wiring diagrams

The staircase timer can be wired utilising either the 3-wire or 4-wire configuration as shown in the wiring diagrams below.
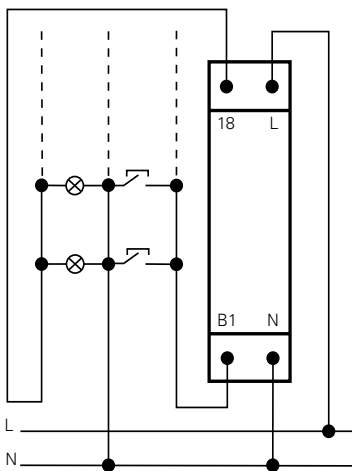
3-wire configuration
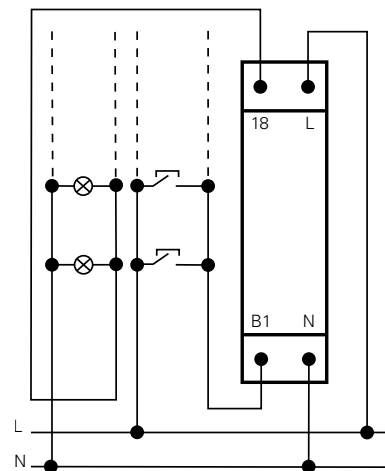
4-wire configuration

Contactors type CR - technical data

Products	Contactors				Aux. contact
Rating	20 A	25 A	40 A	63 A	6A
General					
Standards	IEC 60947-4-1, IEC 61095				IEC 60947-5-1
Nominal operating voltage 1-phase Ue 1-ph.	230 V	230 V	230 V	230 V	230 V
Nominal operating voltage 3-phase Ue 3-ph.	400 V	400 V	400 V	-	-
Overvoltage protection on coil	430 V (*5)	430 V (*5)	430 V	430 V	
Mechanical endurance (switching cycles)	3.000.000	3.000.000	3.000.000	3.000.000	3.000.000
Protection class (acc. DIN 40 050, IEC 529)	IP20	IP20	IP20	IP20	IP20
Permissible ambient temperature	-5…+55 °C	-5…+55 °C	-5…+55 °C	-5…+40 °C	-5…+55 °C
Storage temperature	-30…+80 °C	-30…+80 °C	-30…+80 °C	-30..+80 °C	-30…+80 °C
Contact rating					
Rated insulation voltage Ui	440 V	440 V	500 V	500 V	500 V
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz'	50/60 Hz
Rated impulse withstand voltage Uimp	4 kV	4 kV	4 kV	4 kV	4 kV
Rated thermal current Ith	20 A	25 A	40 A	63 A	6 A
AC1 / AC7a Rated operational current Ie	20 A	25 A	40 A	63 A	-
AC1 / AC7a Operational power rating at Ue = 230 Vac Pmax	4 kW	9 kW	16 kW	24 kW	-
AC1 / AC7a Operational power rating at Ue = 400 Vac Pmax	16 kW	26 kW	40 kW	-	-
AC3 / AC7b Operational power rating at Ue = 230 Vac Pmax	1,3 kW (*1)	2,2 kW	5,5 kW	8,5 kW	-
AC3 / AC7b Operational power rating at Ue = 400 Vac Pmax	4 kW	11 kW	15 kW	-	-
DC1 Rated thermal current at Ue = 24 Vdc Ie	20 A	25 A	40 A	63 A	-
DC1 Rated thermal current at Ue = 110 Vdc Ie	1A	2A	4A	4A	-
DC1 Rated thermal current at Ue = 220 Vdc Ie	0,5 A	0,5 A	0,8 A	0,8 A	-
DC1 Rated thermal current at Ue = 24 Vdc (2-poles in series) Ie	20 A	25 A	40 A	63 A	-
DC1 Rated thermal current at Ue = 110 Vdc (2-poles in series) Ie	3 A	4 A	10 A	10 A	-
DC1 Rated thermal current at Ue = 220 Vdc (2-poles in series) Ie	1,5 A	1,5 A	6 A	6 A	-
DC1 Rated thermal current at Ue = 24 Vdc (3-poles in series)	-	25 A	40 A	63 A	-
DC1 Rated thermal current at Ue =110 Vdc (3-poles in series)	-	6:00 AM	30 A	35 A	-
DC1 Rated thermal current at Ue = 220 Vdc (3-poles in series)	-	2,5 A	20 A	30 A	-
Electrical endurance					
Maximum operating cycles at AC1 / AC7a application	200.000 x	200.000 x	100.000 x	100.000 x	-
Maximum operating cycles at AC3 / AC7b application	300.000 x	500.000 x	150.000 x	150.000 x	-
Maximum operating cycles at AC5a application	100.000 x	100.000 x	100.000 x	100.000 x	-
Maximum operating cycles at AC5b application	100.000 x (*2)	100.000 x (*2)	100.000 x (*3)	100.000 x (*4)	-
Maximum operating cycles per hour	600 x	600 x	600 x	600 x	600 x
Power dissipation per contact at In	1,7 W	2,2 W	4 W	8 W	-
Maximum back-up fuse	25 A gL	35 A gL	63 A gL	80 A gL	-
Rating	20 A	25 A	40 A	63 A	6 A
Operating coil (for combined ac/dc types only – CR.....)					
Coil inrush power (for all voltage ratings)	2,5 W	3 W	5 W	5 W	-
Coil consumption (for all voltage ratings)	2,5 W	3 W	5 W	5 W	-
Closing delay	15-25 ms	15-30 ms	15-20 ms	15-20 ms	-
Opening delay	35-45 ms	50-80 ms	35-45 ms	35-45 ms	-
Operating coil (for ac types only – CR.....A)					
Coil inrush power (for all voltage ratings)	13 W / 15 VA	17 W / 27 VA			-
Coil consumption (for all voltage ratings)	2 W / 5 VA	1 W / 2.7 VA	-	-	-
Closing delay	15 ms	15-25 ms	-	-	-
Opening delay	10 ms	35-45 ms	-	-	-

Contactors type CR - technical data (continued)

Products	Contactors				Aux. contact
Dimensions					
Width	18 mm	35 mm	54 mm	54 mm	9 mm
Height	85 mm	85 mm	85 mm	85 mm	85 mm
Depth	60 mm	60 mm	60 mm	60 mm	60 mm
Terminals for main & auxiliairy contacts					
Terminal capacity – fine stranded wire	1.....6 mm^2	1.....6 mm^2	1.....16 mm^2	1.....16 mm^2	1....2,5 mm^2
Terminal capacity – solid wire	1.....10 mm^2	1.....10 mm^2	1.....25 mm^2	1.....25 mm^2	1....2,5 mm^2
Terminal screw size	M3,5	M3,5	M5	M5	M3
Terminal screw head type (Pozidrive)	PZ Size 1	PZ Size 1	PZ Size 2	PZ Size 2	PZ Size 1
Maximum torque	1,2 Nm	1,2 Nm	2,0 Nm	2,0 Nm	0,8 Nm
Terminals for operating coils					
Terminal capacity – fine stranded wire	1.....2,5 mm^2	1.....2,5 mm^2	1.....2,5 mm^2	1.....2,5 mm^2	
Terminal capacity – solid wire	1.....2,5 mm^2	1.....2,5 mm^2	1.....2,5 mm^2	1.....2,5 mm^2	
Terminal screw size	M3	M3	M3	M3	
Terminal screw head type (Pozidrive)	PZ Size 1	PZ Size 1	PZ Size 1	PZ Size 1	
Maximum torque	0,6 Nm	0,6 Nm	0,6 Nm	0,6 Nm	

Remarks:
*1) Only applicable for normally open contact(s)
*2) At 1,5 kW
*3) At 3 kW
*4) At 5 kW
*5) For CR…. types only (combined ac/dc types), NOT for CR....A types

Contactors type CR - lamp load table

Lighting Type	Lamp load (Watt) CR 20	CR 25	CR 40	CR 63	Maximum number of fittings per contactor type
Incandescent lamp					
	15	86	110	228	480
	25	52	72	180	290
	40	32	50	122	195
	60	21	33	86	130
	75	17	26	69	104
	100	13	20	52	78
	150	8	13	34	52
	200	6	10	26	39
	250	5	8	20	31
	300	4	6	17	26
	500	2	4	10	15
	1000	1	2	5	7
Energy saving lamp					
	3	42	52	83	120
	5	42	52	83	120
	7	42	52	83	120
	9	36	45	72	104
	11	33	41	65	94
	15	30	37	59	85
	20	29	36	57	82
	23	28	35	56	81

Contactors type CR - lamp load table (continued)

Lighting Type	Lamp load (Watt) CR 20	CR 25	CR 40	CR 63	Maximum number of fittings per contactor type
Fluorescent lamp – conventional supply					
Single fitting – Uncompensated (inductive)	18	22	24	90	140
	24	22	24	90	140
	36	17	20	65	95
	58	14	17	45	70
Single fitting – Compensated (capacative)	18	7	8	48	73
	24	7	8	48	73
	36	7	8	48	73
	58	4	5	31	47
Double fitting – Series compensated	2 x 18	30	40	100	150
	2 x 24	24	31	78	118
	2 x 36	17	24	65	95
	2 x 58	10	14	40	60
Fluorescent lamp – HF electronic					
Single fitting – HF Electronic	18	25	31	49	71
	24	18	22	35	50
	36	14	17	27	39
	58	8	10	16	23
Double fitting – HF Electronic	2 x 18	12	15	24	35
	2 x 24	9	11	17	25
	2 x 36	7	8	13	19
	2 x 58	4	5	8	11
Compact fluorescent lamp					
Conventional supply	5	38	48	77	121
	7	27	34	54	86
	9	21	26	42	67
	11	17	21	35	55
Electronic supply	5	39	49	78	124
	7	39	49	78	124
	9	30	38	61	96
	11	25	31	50	79
High pressure mercury vapour lamp					
Uncompensated	50	14	18	38	55
	80	10	13	29	42
	125	7	9	20	29
	250	4	5	10	15
	400	2	3	7	10
Parallel compensated	50	4	5	31	47
	80	4	5	27	41
	125	3	4	22	33
	250	1	2	12	18
	400	1	1	9	13
Halogen metal vapour lamp					
Uncompensated	35	18	22	43	60
	70	10	12	23	32
	150	5	7	12	18
	250	3	4	7	10
	400	3	3	6	9
Parallel compensated	35	5	6	36	50
	70	2	3	18	25
	150	1	1	11	15
	250	-	1	6	9
	400	-	1	6	8

Contactors type CR - lamp load table (continued)

Lighting Type	Lamp load (Watt) CR 20	CR 25	CR 40	CR 63	Maximum number of fittings per contactor type
Low pressure sodium vapour lamp					
Uncompensated	18	22	27	71	90
	35	7	9	23	30
	55	7	9	23	30
	90	4	5	14	19
	135	3	4	10	13
	180	3	4	10	13
Parallel compensated	18	6	7	44	66
	35	1	1	11	16
	55	1	1	11	16
	90	1	1	8	12
	135	-	-	4	7
	180	-	-	4	7
High pressure sodium vapour lamp					
Uncompensated	150	5	6	17	22
	250	3	4	10	13
	400	2	2	6	8
	1000	-	1	3	3
Parallel compensated	150	1	1	11	16
	250	-	1	6	10
	400	-	-	4	6
	1000	-	-	2	3

General remarks:
1) In case a 4-pole contactor is used (3 ph. + neutral) the above mentioned quantity of lamps need to be multiplied by 1,5 to obtain the maximum quantity of fittings for the contactor. The total quantity of fitting need to be split equally across the 3 poles.
2) In case multiple contactors are installed in one panel it is required to multiply the above mentioned fittings by the applicable load factor according the IEC 60439-1.
3) It is recommended to install one spacer between each 2 contactors installed (eg contactor, contactor, spacer, contactor, etc.)
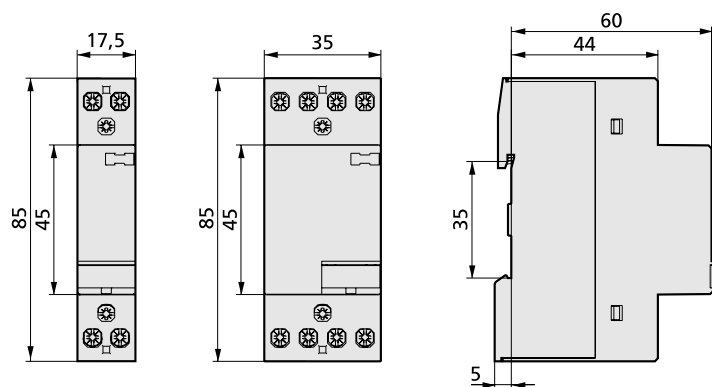
Contactors, type CR20, CR25
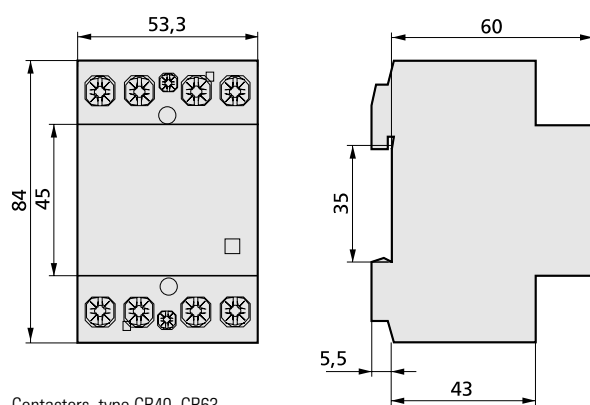
Contactors, type CR40, CR63
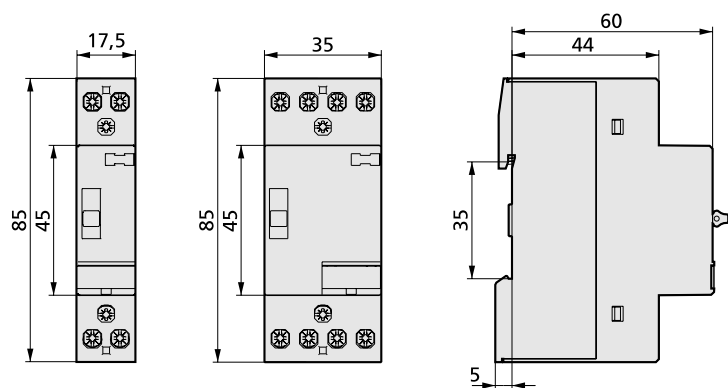
Day/Night contactors, type CRM20, CRM25

Auxiliary contact

Spacer

Shown without plate finish suffix

Index

Shown without plate finish suffix

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E:T•N

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