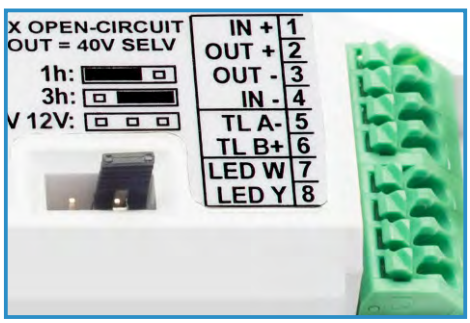
Conversion Kit LED
Product overview

When Safety depends on the decisions you make

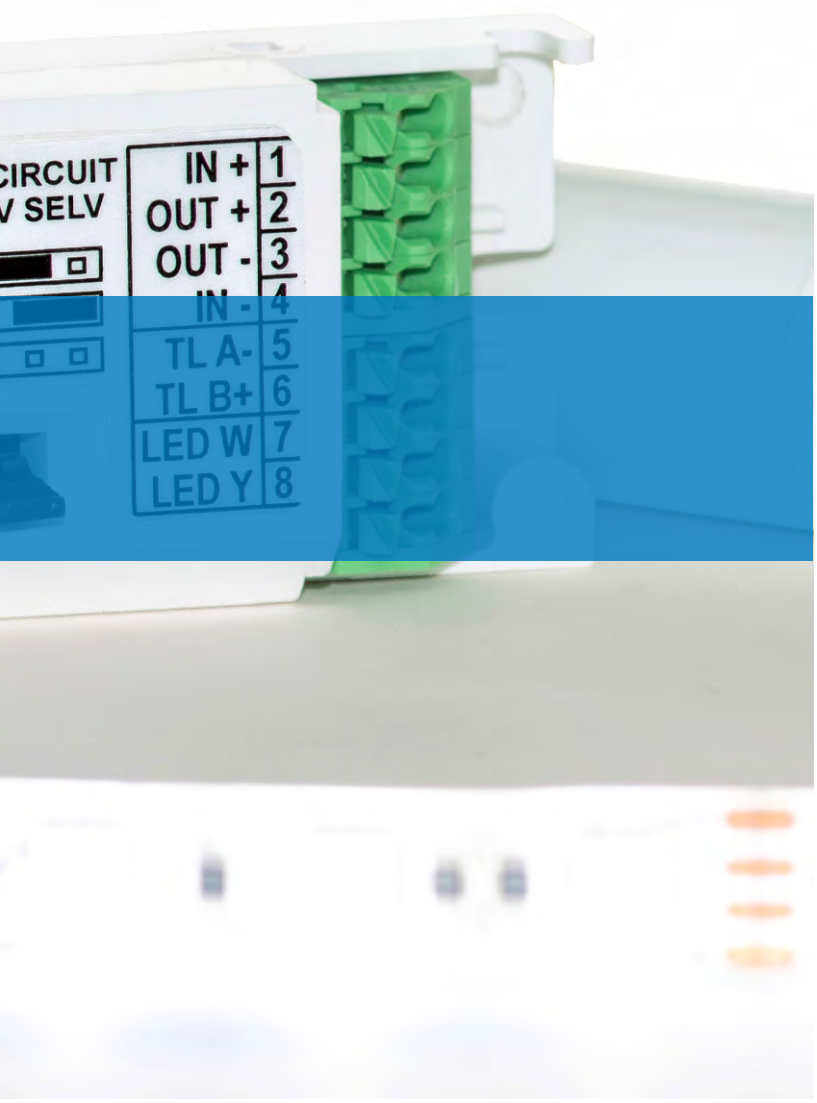
Powering Business Worldwide

Conversion Kit LED

Terminal connections
mains (L/N unswitched) (L1 switched in/out) up to 1,5 mm2 screwless push wire & multicore.



Duration
1h or 3h rated duration or constant voltage output mode selectable by a jumper.



Conversion Kit LED is designed for use in emergency luminaries in conjunction with LED modules and LED control gear from all manufacturers.

It is compatible with all dimmable and non-dimmable constant current mains LED Drivers for linear / area as well as down light applications and can be used with normal fixed output or dimming LED control gear from 2,5W up to 4,1W emergency output power.

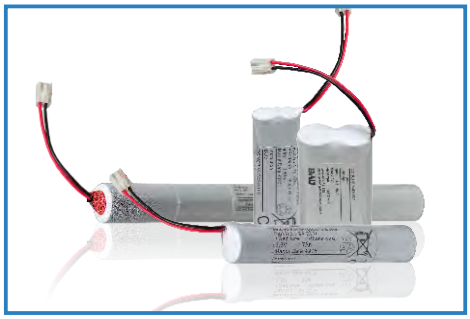
The Conversion Kit LED range is certified to conform with IEC61347-2-7 standard which makes the converted luminaries easily achieve compliance to IEC60598-2-22 standard.

The product range is designed in a very small 35x23x185 mm housing, making it ideal for use in compact LED luminaries where space is at a premium.

All models available are programmable by a jumper to an emergency operation of either 1 hour or 3 hours duration.

The output forward voltage range of 3Vdc to 180Vdc makes this product range an ideal choice for driving most LED modules from mains lighting manufacturers available in the market today.

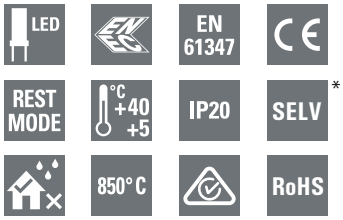
Test button Conversion Kit LED can be equipped with a test button, with Normally Close operation, with LED charging indicator, of a length of 35 cm.



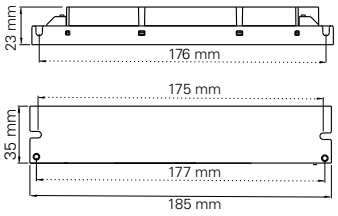
Batteries which equip the Conversion Kit LED are high-tempererature Nickel Cadmium (AA or Cs) with a variety of sizes and Ah capacities.

Emergency Lighting

Conversion Kit LED



* Applies to Low and Medium Voltage LED Drivers



Battery dimensions (in mm)

Type	L	W	H	Fixing centers
4AA	100 (140)	30 (34)	15 (20)	(125)
3Cs	130 (160)	25 (26)	25 (26)	(150)
4Cs	173 (203)	25 (26)	25 (26)	(193)
5Cs	215 (245)	25 (26)	25 (26)	(235)

Values inside parentheses refer to batteries with mounting caps

Overview

- Emergency lighting LED Driver
  - Low Voltage for 3-33Vdc LED lamps. Output open voltage 40Vdc (SELV).
  - Medium Voltage for 20-55Vdc LED lamps. Output open voltage 60Vdc (SELV).
  - High Voltage for 40-180Vdc LED lamps. Output open voltage 200Vdc.
- Low profile casing (23 x 185 mm), for mains luminaire installation (build-in).
- Non maintained operation with Rest mode.
- 1h or 3h rated duration, selectable by jumper.
- Constant voltage output mode selectable by jumper:
  - Low Voltage: 12Vdc, 150mA max (4AA battery) / 240mA max (3Cs battery), 1h rated duration.
  - Medium Voltage: 24Vdc, 75mA max (4AA battery) / 155mA max (4Cs battery), 1h rated duration.
  - High Voltage: 48Vdc, 37mA max (4AA battery) / 90mA max (5Cs battery), 1h rated duration.
- Compatible with all dimmable and non-dimmable constant current mains LED Drivers.
- Maximum light output for all LED modules. Auto adjust LED current based on LED voltage for optimum battery usage.
- Soft start on transition to emergency operation / suppress peak currents on emergency start.
- Mains LED driver protection of operation without LED lamp: dedicated relay for disconnecting Live from mains LED driver, activating immediately after any mains failure or any test signal and before the disconnection of the lamp.
- 4-pole technology: LED lamp change over from mains LED driver through a dedicated relay offering full isolation from mains driver.
- Automatic shutdown of emergency operation if no LED lamp is connected on the output terminals.
- Deep discharge protection.
- Battery connectors for short-circuit-proof battery connection & polarity reversal protection.
- High temperature NiCd, AA or Cs cell size, battery packs.
- Test function by NO free contact / NC free conduct / Telecommand signal.

System Mode	non-maintained
Mains input voltage	230 V AC ±5% (218,5 - 241,5 V AC)
Mains frequency	50/60Hz
Mains consumption	20mA AC @ AA cell battery 30mA AC @ Cs cell battery
Power factor	0,47
Recharge period	24 hours
Charging monitor	green LED with cable 1m.
Test facility	by Telecommand signal by Normally Closed Push button by Normally Open Push button
Duration	1 or 3h, selectable by jumper
Permissible ambient temperature (t_a)	5..40°C
Case temperature max (t_c)	converter: 60°C / battery: 50°C
Housing material	polycarbonate
Housing colour	white
Mounting	M4 screws (2 options)
Terminals	mains (L/N unswitched) (L1 switched in/out) up to 1,5 mm² screwless pushwire & multicore
Battery	4AA NiCD 4,8V 0,8Ah 2x2pack 3VTCs NiCD 3,6V 1,7Ah 4VTCs NiCD 4,8V 1,7Ah 5VTCs NiCD 6V 1,7Ah
IP rating	20
Overheating protection	110°C
Short circuit protection	Non-inherently short circuit proof
Weight	125gr 225gr with AA cell battery 275gr with CS cell battery 325gr with CS cell batteries 375gr with CS cell batteries

Features & Benefits

1. For LED modules with a forward voltage of 3 – 180V.
2. Selectable operating time (jumper).
3. Output power limitation and SELV classified.
4. Polarity reversal protection from battery connector.
5. Automatic shutdown of output if LED load is out of range.
6. Low profile casing (35x23x185 mm).

Ordering details

Scope of delivery	Order No.
Led Kit Low Voltage Driver 3-33Vdc (12Vdc) / 4AA	O-LVLD-4AA
Led Kit Low Voltage Driver 3-33Vdc (12Vdc) / 4AA, with Test button LED, 35 cm	O-LVLD-4AA-TB
Led Kit Low Voltage Driver 3-33Vdc (12Vdc) / 3CS	O-LVLD-3CS
Led Kit Low Voltage Driver 3-33Vdc (12Vdc) / 3CS, with Test button LED, 35 cm	O-LVLD-3CS-TB
Led Kit Medium Voltage Driver 20-55Vdc (24Vdc) / 4AA	O-MVLD-4AA
Led Kit Medium Voltage Driver 20-55Vdc (24Vdc) / 4AA, with Test button LED, 35 cm	O-MVLD-4AA-TB
Led Kit Medium Voltage Driver 20-55Vdc (24Vdc) / 4CS	O-MVLD-4CS
Led Kit Medium Voltage Driver 20-55Vdc (24Vdc) / 4CS, with Test button LED, 35 cm	O-MVLD-4CS-TB
Led Kit High Voltage Driver 40-180Vdc (24Vdc) / 4AA	O-HVLD-4AA
Led Kit High Voltage Driver 40-180Vdc (24Vdc) / 4AA, with Test button LED, 35 cm	O-HVLD-4AA-TB
Led Kit High Voltage Driver 40-180Vdc (24Vdc) / 5CS	O-HVLD-5CS
Led Kit High Voltage Driver 40-180Vdc (24Vdc) / 5CS, with Test button LED, 35 cm	O-HVLD-5CS-TB

Accessory

Scope of delivery	Order No.
Conversion Kit LED Test Button, Normally Close, with LED charging indicator, 35 cm	O-CKL-TB

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Eaton Industries Manufacturing Gmbh
Electrical Sector EMEA
Route de la Longeraie, 7
1110 Morges, Switzerland
Eaton.eu

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