

RoHS

TALEXstrip ES 08/10/12

TALEX emergency lighting modules

Product description

- Lighting module with 8, 10 or 12 high-power LEDs (emergency lighting strip)
- For use in escape route signs

Properties

- Suitable for Tridonic EM powerLED emergency lighting units
- For permanent and standby operation
- Wide 120° distribution of light for uniform illumination
- Operation on a constant current source
- Replacement for 8 W T5 fluorescent lamp
- Several options for uniform light distribution
- Can be interconnected to create longer strips
- Low energy consumption
- Long life thanks to low operating temperature
- Provides a maintenance-free escape sign system
- Polarity reversal protection for battery
- Simple mounting/installation

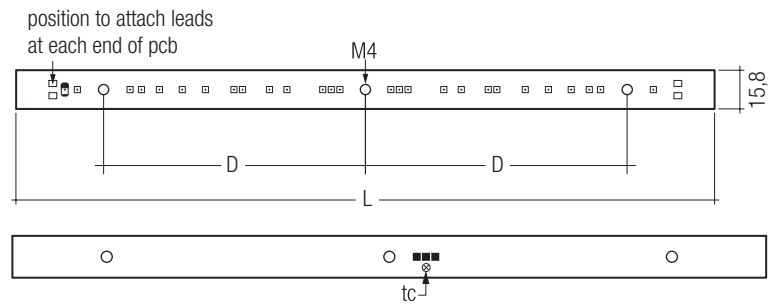
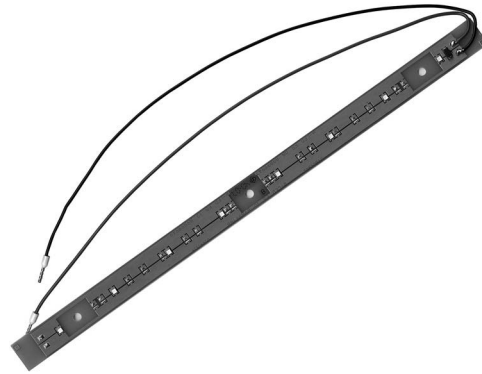
Note

Separate status LED required

- For product data sheet go to www.tridonic.com, or available on request



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Ordering data

Colour	Typ. colour temperature	Type	Article number
8 light points per module			
Daylight white	6,500 K	ES 08 246	89899954
Daylight white	6,500 K	ES 08 285	89899947
10 light points per module			
Daylight white	6,500 K	ES 10 285	89899948
12 light points per module			
Daylight white	6,500 K	ES 12 285	89899949

Packaging: 25 pieces/carton, 600 pieces/pallet

Specific technical data

Type	Typ. luminous flux ^①	Max. current ^②	Power ^③	Ambient temperature ta ^④	tc point ^⑤	Total length	Hole spacing D
8 light points per module							
ES 08 246	80 lm	350 mA	typ. 1.1 W	-20 ... +40 °C	60 °C	246 mm	97.9 mm
ES 08 285	80 lm	350 mA	typ. 1.1 W	-20 ... +40 °C	60 °C	285 mm	106.8 mm
10 light points per module							
ES 10 285	80 lm	350 mA	typ. 1.1 W	-20 ... +40 °C	60 °C	285 mm	106.8 mm
12 light points per module							
ES 12 285	80 lm	350 mA	typ. 1.1 W	-20 ... +40 °C	60 °C	285 mm	106.8 mm

^① Tolerance range for optical and electrical data: ±15 %

^② Exceeding the max. operating current leads to an overload on the TALEXstrip. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXstrip.

^③ Data for operation with 350 mA.

^④ If the max. temperature limits are exceeded, the life of the module will be reduced or the module may be damaged. The temperature of the TALEXstrip at the tc-point is to be measured in the thermally stable state. For tc-point see the above diagram.

All values at ta = 25 °C

Status indication charging current

Product description

- A green LED indicates that charging current is flowing into the battery



Ordering data

Type	Article number
LED EM green	89899605
LED EM green, ultra high brightness	89899756

Packaging: 25 pieces/bag, 200 pieces/carton

Status indication system OK/fault

Product description

- Two-colour status display LED
- Green: system OK, red: fault



Ordering data

Type	Article number
LED EM bi-colour	89899720
LED EM bi-colour, high brightness	89899753

Packaging: 25 pieces/bag, 200 pieces/carton

Thermal design and heat sink

no separate heat sink required

Mechanical details

Lead length of the delivered product: 300 mm

Maximum allowed lead length: 1 m

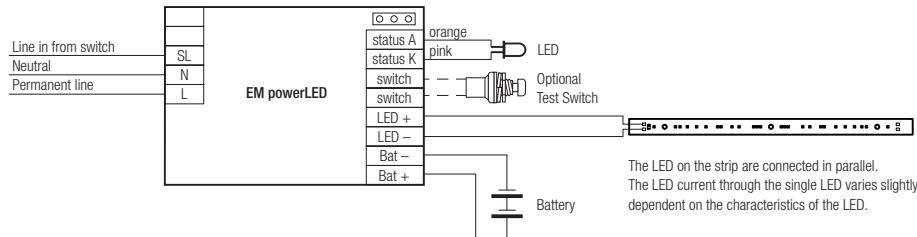
Operating unit

EM powerLED (see separate data sheet)

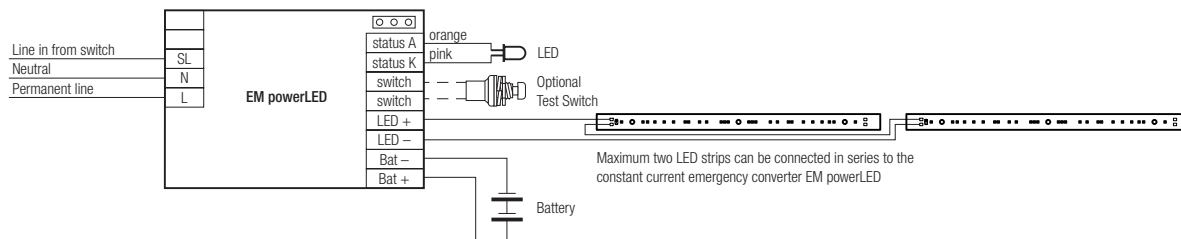
Fixing:

Fixing can be achieved using M4 plastic screws or M4 plastic rivets through the holes provided or alternatively by appropriate adhesive pads positioned in the fixing areas.

Wiring example for one LED strip



Wiring example for two LED strips connected in series



Precautions in Handling

Safety Precautions

The LED light output is intense enough to cause injury to human eyes if viewed directly. Precautions must be taken to avoid looking directly at the LEDs with unprotected eyes [according IEC 60825-1 (EN 60825-1)].

Protection against electrostatic discharge – ESD

LEDs are electronic components and sensitive to electrostatic discharge. Appropriate ESD protection measures must be taken when working with LED products. For example, earthed shoes or ESD wristbands have to be applied. Non-compliance with ESD protection measures may lead to damage or destruction of the product.

The TALEX ES light strips are delivered in an ESD protected packaging.

Mechanical

Avoid bending the strips or applying pressure onto any components.

Precaution in driving

Products are designed exclusively for forward current driving. Please avoid driving system with reverse voltage, which may cause migration which damages the product.

① For further technical information particularly with regard to the installation of TALEX modules please see separate document, "TALEX Installation_Guide_en_WEB.pdf" on www.tridonic.com

Cleaning

Chemical solvents or cleaning agents must not be used to clean the LED component.

Mechanical stress on the LED component must be avoided. It is best to use a soft brush, damp cloth or low-pressure compressed air.

Storage

The products should be stored away from direct light in dry location.

The LEDs should be kept at 30 °C or less and 70 % RH or less. Please avoid rapid transitions in ambient temperature, especially in high humidity environments where condensation could occur.

Precautions for safe operation

The operating unit must be SELV classified or else the circuit board must be insulated by the luminaire.

Standards

- EN 62031