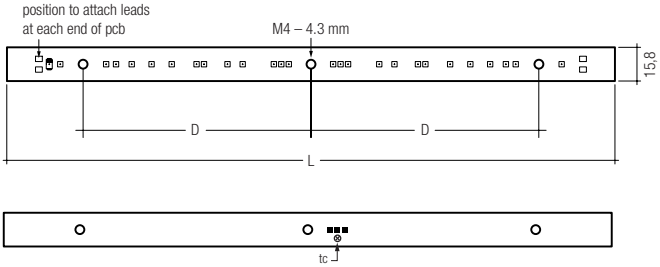
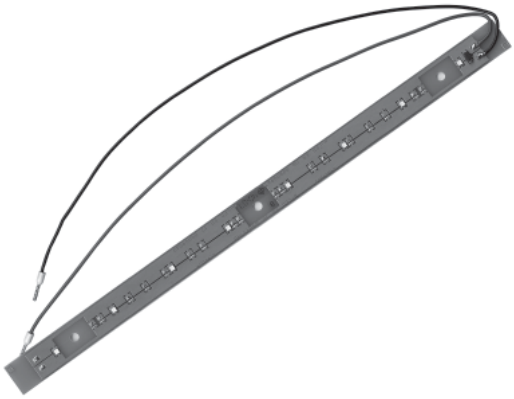
TALEX⟨strip ES

RoHS





Description:
A range of LED based light strips for use in emergency exit signs and other edge lit sign applications. The range is comprised of three versions with either 8, 10 or 12 TridonicAtco high power LED equally spaced on a high quality printed circuit board to offer optimum illumination in a range of edge lit signs including maintained and non-maintained emergency exit signs.

The TALEX⟨ ES units are especially designed to be used in conjunction with the range of TridonicAtco EM powerLED emergency drivers. Other TridonicAtco constant current drivers can be used for normal sign applications where emergency operation is not required.

Due to the high efficiency of the LED's power consumption running costs are kept to a minimum. This also results in extremely low operating temperatures giving long life of both TALEX⟨ light strips and associated batteries. The total exit sign system can be designed for long maintenance free life.

Features:
- Emergency light strip
- High power LED
- broad 120° light distribution for uniform illumination
- small low profile light strips can replace T5 8W lamps
- multiple options for uniform light distribution
- low power consumption
- low temperature
- long life
- maintenance free
- maintained and non-maintained emergency applications
- reverse polarity protected
- can be connected together to form longer light strips
- operates from constant current source
- easy fixing

Applications:
Emergency exit signs and other edge lit sign applications

Packaging:
box of 25

TALEX⟨strip ES

type	article number	colour	colour temp. K	light points per module	typ. luminous flux lm ④ ①	max. current mA ②	typ. power W ④ ①	temperature range ta °C	tc point °C ③	length L mm	fixing centres D mm
TALEX⟨strip ES 08 285	89899947	daylight white	6,500	8	60	350	1.1	-20 → +40	60	285	106.8
TALEX⟨strip ES 10 285	89899948	daylight white	6,500	10	60	350	1.1	-20 → +40	60	285	106.8
TALEX⟨strip ES 12 285	89899949	daylight white	6,500	12	60	350	1.1	-20 → +40	60	285	106.8
TALEX⟨strip ES 08 246	89899954	daylight white	6,500	8	60	350	1.1	-20 → +40	60	246	97.9

all data for ta = 25 °C
① Tolerance range for optical and electrical data: ±15 %
② Exceeding the maximum operating current leads to an overload on the TALEX⟨strip module.
This may in turn result in a significant reduction in lifetime or even destruction of the TALEX⟨strip module.
③ If the maximum temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged.
The temperature of the TALEX⟨strip at the tc point in the thermally stable state by means of a temperature sensor or temperature-sensitive sticker (available for example from www.conrad.com, www.rs-components.com) as per EN60598-1.
For the precise position of the tc point see the above diagram.
④ Data for operation with 350 mA

Indicator LED

type	article number
LED EM green	89899605
LED EM green, UHB	89899756

type	article number
LED EM bi-colour	89899720
LED EM bi-colour, high brightness	89899753

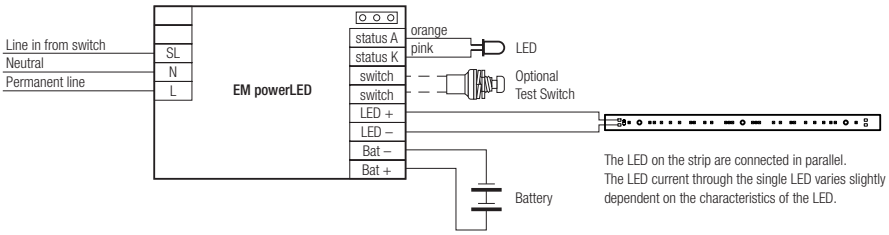
Thermal design and heat sink
no separate heat sink required

Mechanical details
Lead length of the delivered product: 300 mm
Maximum allowed lead length: 1 m

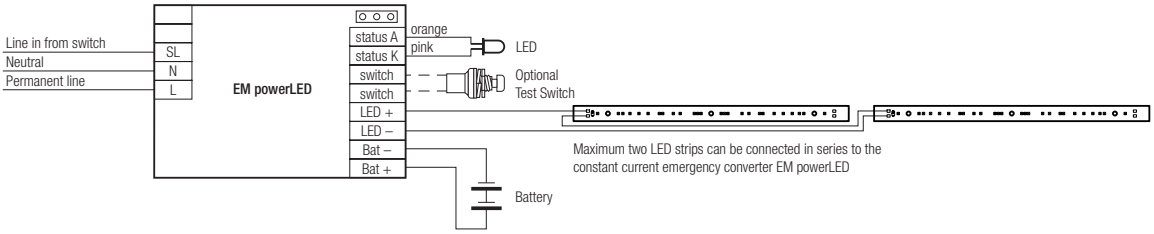
Operating unit
EM powerLED (see separate data sheet)

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 TALEXX 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.

ⓘ **For further technical information particulary with regard to the installation of TALEXX modules pleas see seperate document, "TALEXX Installation_Guide_en_WEB.pdf" on www.tridonicatco.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.