

Intrinsically Safe Battery Powered LED Strip Light

For Petrochemical Environments, Petrochemical Environments and Underground Hardrock Mines

This strip light is a chain of several LED Soft Bars. There are different types of LED Soft Bars with different numbers of LEDs. A LED Soft Bar is consisting of a FPCB fully sealed in a transparent shrink tube. All LED Soft Bars are connected using cables, connectors and jointing boards to form a complete Battery Strip Light. The Battery Box connects to the LED strip chain either directly or through a connector to supply power.

Applications

LED Workwear design
Portable safety product design
Sign enhancement
Equipment visualisation
Site safety

Features



Zone 0 environment



Flexible construction



Portable and stationary



Indoor or outdoor use

Product Specifications



IP Rating - IP65

Dustproof and direct spray proof



Operating Mode

Steady, Slow Flashing,
Fast Flashing



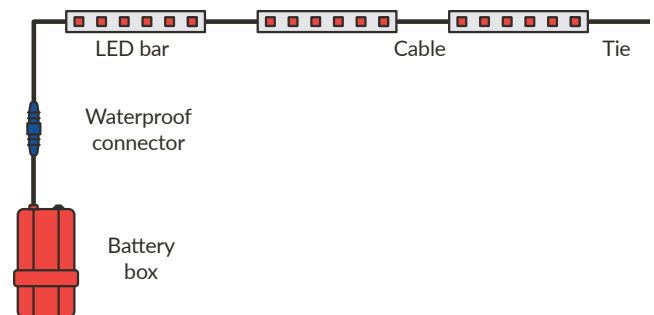
Ambient Temperature

$-20^{\circ} \leq T_a \leq 40^{\circ}$



Weight

90 g - battery box



This product is certified with great flexibility and is custom made. Specify the:

- amount of LED bars and their positions
- amount of LEDs in each bar
- length of each cable

Batteries: 2xAA

Default LED color is Red. Other colours optional.
Other LED colours and 3AH rechargeable Lithium battery are available, subject to price variations and extended delivery times.

Running time (T) is decided by the total number of LEDs (N) and operating mode. T in hours in steady mode can be estimated using the following formula. In a flashing mode, T is doubled.

$$T = 300/N \leq 16$$

Attention: Product Developers

This Strip Light is an OEM product. You are welcome to use it to design your own intrinsically safe products with our engineering support.

Certifications:

- Certificate #: IECEx TSA 22.0007X
- Ex Marking: Ex ia op is I Ma / Ex ia op is IIB T3 Ga

Standard #:

- ICE 60079-0:2017
- IEC 60079-11:2011
- IEC 60079-28:2015



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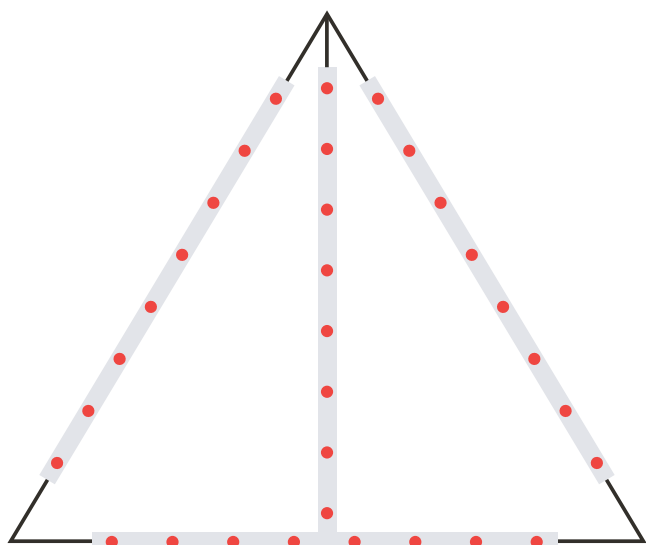
Product design examples



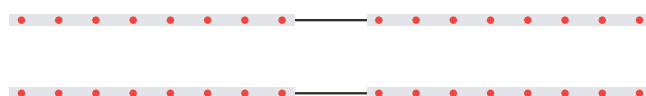
Intrinsically Safe LED Shoulder Brace



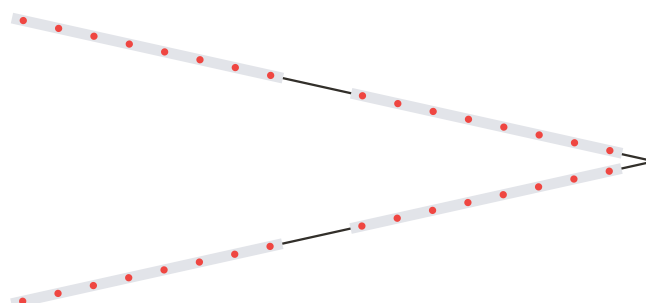
Intrinsically Safe LED Surrounding



Triangle



Parallel



Arrow

