

## LED shaft light for elevators with emergency light function

Stingl Systems GmbH, the trendsetter of state of the art shaft light for elevators, has developed a new LED shaft light including an emergency light function exceeding the new European safety regulation EN81-20 5.4.10.4c.

This safety regulation requires an emergency light of minimum 5 Lux above one meter over the car top in case of power breakdown of main supply. The power of the emergency light has to be buffered by rechargeable batteries for at least 1 hour.



Normal light



Emergency light

## easy connect LEDplus

The Stingl easy connect LEDplus -solution exceeds these requirements by far. In this case the proven Switch LED strip consists of 2 separate electric circuits. The majority of LEDs is connected to the shaft light for common operation while each tenth LED is connected to the emergency path. Thus a part of the LEDs can be fed with low voltage power provided by rechargeable batteries.

The shaft will not be totally dark in case of blackout of main power supply. This is a huge advantage as the emergency light will be in service for one hour at least. This solution allows the maintenance man to take care on his emergency exit and in addition it prevents anxiety attacks.

The Stingl easy connect LEDplus solution provides emergency light all over the shaft not only above the car as required by European safety regulation. This is an additional safety for the maintenance man, as light is in the pit as well as on the car top.

The all over illumination of the shaft by the LED light is a huge advantage. The LED shaft light is sufficient up to shafts for cars carrying up to 20 peoples. We recommend the installation of a second strip opposite in case of larger shafts, e. g. for heavy freight elevators.

The maximum length of the LED strip is 50 m. Stingl GmbH will prepare the right length according to the customers request respectively the height of the shaft.

It is self evident that the new easy connect LEDplus solution meets all associated requirements according to CE, RoHS and EN81-20.



.... in each shaft!



Constant illumination for best working conditions...



Traditional illumination



Well illumination with fluorescent tubes  
such as easy connect 2



Constant illumination with  
easy connect LEDplus

## Installation

The LED strip is attached simply and quickly to the shaft wall with the 6 mm dowel and cable-ties. These parts are included in the delivery.

The height of the light strip is only 15 mm including the fixation. Thus it is suitable outstandingly to very narrow shafts.



The preferable position for the fixation is close to the shaft doors. At this place usually no objects are shadowing the LED light providing a constant illumination.

The LED shaft light can be fed either from the pit or from the shaft ceiling taking into account a maximum distance of 50 cm from the bottom respectively ceiling.

The strip is fixed downwards by using the special 6 mm dowels and cable ties starting at the topmost position of the shaft. A dowel distance of approx. 2 m has to be taken into account.

## easy connect LEDplus- complete solution

Stingl offers a complete solution too. It includes the LED shaft light with emergency function and the necessary electronic system including the rechargeable batteries for the low voltage circuit. The maximum operating time of the emergency light is depending on the height of the shaft respectively the length of the LED strip and the capacity of the rechargeable batteries. In general the Stingl complete solution provides an emergency light up to 3 hours.

The Stingl electronic system can be placed in the engine room or in the shaft.

## Technical data

Main power supply:	220-240 VAC
Emergency power supply:	24 VDC
Normal light:	54 LED per meter
Emergency light:	6 LED per meter
Angle of radiation:	120 deg
Lifetime (mttf) approx.:	50.000 hours
Colour temperature:	6000 – 6500 K
Vertical illuminance (avg):	80 Lux (normal light, 1 m above car roof) 5 Lux (emergency light, 1 m above car roof)
Dimension PVC-coat:	18.5 mm x 9 mm (w x h)
Installation height:	Approx. 15 mm incl. dowels
Weight:	270 g / m
Burning characteristic:	Self extinguishing
Safety class:	2
Degree of protection:	IP 65
Length:	1-50 meter, divisible in full meters
Supply cord (220-240 VAC):	H05WV 2 x 1 mm <sup>2</sup> , 5 m with Euro plug
Supply cord (24 VDC):	H05WV 2 x 1 mm <sup>2</sup> , 5 m with open contact

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