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YOUR LIFT EXPERT



CATALOGUE APRIL 2022

SHAFT LIGHTING

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LED SHAFT LIGHTING WITH PLUG-SCREW CONNECTION

The LED shaft lighting with plug-screw connection is a very flexible lighting solution. LED ribbons with 3 m and 10 m. Every LED ribbon contains male and female connectors for quick and easy connection. Plug and turn – it's connected.

4 mounting brackets are included for an easily installation on a nearby wall. With the 8m power supply cable, you can optimize the location of your unit for an easy maintenance operation.

An optional emergency lighting unit (see below) is available.

BENEFITS: • Sturdy • Quick and easy connection • Easy transportation • Flexible



LED shaft lighting incl. plug-screw connection



Power supply cable

TECHNICAL FEATURES: • Ribbon protection index: IP65 - IK08 • Connectors protection index: IP44 • Supply voltage: 230V - 50Hz • Maximum power: 8,4W/m • Color temperature: 6,500K • Lifetime: ≥ 10,000h • Ribbon's length: 3m & 10m • Luminosity: ≥ 80 lux/1m • Up to 50m of ribbon can be connected together on the same supply line. For more length, use a new supply line. • With male and female connectors for easy and quick connection • TÜV certified according to EN 60598-1, EN 60598-2-21 and EMC standards

Item No.	Description
91732300008	8,0m power supply cable with end cap
91732306503	3,0m LED ribbon with male/female connector
91732306510	10,0m LED ribbon with male/female connector

EMERGENCY UNIT: The XBS50MLED emergency unit can be used with the LED shaft lighting range (3m and 10m). In case of main electrical supply failure, our emergency unit will keep a safety lighting of the LED ribbons during at least 3h and safely secure the evacuation of the workers from the lift shaft.

LED EMERGENCY UNIT FOR SHAFT LIGHTING EN 81-20 COMPLIANT

Item No.	Description
91830005000	Emergency unit for LED ribbon



Emergency unit



LED EMERGENCY LIGHT EN 81-20

LED EMERGENCY LIGHT EN 81-20

Item No.	Description
90980000001	LED Emergency Light EN 81-20



2



normal light



with dowel



emergency light

LED SHAFT LIGHTING PRE-CONFIGURED

The innovative LED shaft lighting consists of a robust PVC light strip and a 10 m permanently attached power supply cord. There is a flexible PCB fitted with 60 LEDs per metre which have an especially high luminance on the inside of the semicircular transparent PVC strip. The LEDs have a large beam width, which contributes to good illumination of the shaft and at the same time reduces dazzling of the eyes when looking at them directly.

When it is used in a lift shaft, the light strip extends in one piece from the shaft ceiling to the bottom of the shaft pit. In this regard the LED shaft lighting meets the requirements of protection class IP65. The advantage of the LED shaft lighting is that no connection pieces are needed. Therefore error sources and the formation of loop resistance can be avoided. Another advantage of LED shaft lighting is the equal illumination of the entire shaft without horizontal shadow formation. The LED shaft lighting is also sufficient for shafts with large size of floor space, such as lifts for more than 20 people.

The attachment to the shaft wall is very easy and extremely fast especially by using the dowels which are included. The light strip, using the included dowels, projects only about 15 mm and is therefore also suitable for very narrow lift shafts.

It is preferred to install the strip from the shaft top downwards to the shaft bottom. This has the advantage that the light band becomes its own plumb line so that it is easy to attach to the wall vertically. It is recommended to have a dowel distance of about 2 m. Electrical connection is achieved by insertion of an Euro plug in a standard 230V AC socket – no need of the special knowledge of an electrician. The 10 m power supply cord has to be installed according to the structural circumstances, shortened if necessary and connected for the final mounting.

With 115 g per metre the light strip is lighter than any other shaft lighting system. The complete shaft lighting for a 25 m shaft weighs only about 4 kg including the power supply cord. This permits very easy handling, from the manufacture and transport all the way to the mounting.

Lengths up to 50 m are possible with one strip. For a length customised configuration of the LED shaft lighting system only the shaft depth is needed.

The design is providing a new technical innovation. Additionally, it is very attractive in glazed shafts. The new DEKRA-tested shaft lighting system easy connect LED can also be combined with the well-known pit-bottom-box and machine room control box. All certificates needed, such as CE, RoHS and EN81 compliance declaration are already available.

TECHNICAL FEATURES:

Power supply voltage::	230V
Beam angle:	120°
Mean time to fail (mttf):	50,000 hours
Colour temperature:	6,000–6,500 K
Mean illumination level:	80Lux (1 m above car roof)
Max. length:	50 m
Supply cord:	
(with Euro plug):	10 m H05VV2 x 1 mm ²
Operating temperature:	-20° C – +50° C
Dimensions:	14x7 mm (wxh)
Maximal height:	app. 15 mm inkl. dowels
Weight:	115g/m
Burning characteristics:	self extinguishing
Safety class:	2
Degree of protection:	IP65

LED SHAFT LIGHTING PRE-CONFIGURED INCL. EMERGENCY UNIT

This 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.

In this case the proven LED strip consists of two 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 emer-

gency 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.

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

LED SHAFT LIGHTING PRE-CONFIGURED

Shaft Height up to	LED ribbon Item No.	Machine Room Top with 4-Function Pit Control Box Item No.	Machine Room Top with 4-Function Pit Control Box Item No.
8.0 m	91700833080	91710839080	91720839080
9.0 m	91700833090	91710839090	91720839090
10.0 m	91700833100	91710839100	91720839100
11.0 m	91700833110	91710839110	91720839110
12.0 m	91700833120	91710839120	91720839120
13.0 m	91700833130	91710839130	91720839130
14.0 m	91700833140	91710839140	91720839140
15.0 m	91700833150	91710839150	91720839150
16.0 m	91700833160	91710839160	91720839160
17.0 m	91700833170	91710839170	91720839170
18.0 m	91700833180	91710839180	91720839180
19.0 m	91700833190	91710839190	91720839190
20.0 m	91700833200	91710839200	91720839200
21.0 m	91700833210	91710839210	91720839210
22.0 m	91700833220	91710839220	91720839220
23.0 m	91700833230	91710839230	91720839230
24.0 m	91700833240	91710839240	91720839240
25.0 m	91700833250	91710839250	91720839250
26.0 m	91700833260	91710839260	91720839260
27.0 m	91700833270	91710839270	91720839270
28.0 m	91700833280	91710839280	91720839280
29.0 m	91700833290	91710839290	91720839290
30.0 m	91700833300	91710839300	91720839300
31.0 m	91700833310	91710839310	91720839310
32.0 m	91700833320	91710839320	91720839320
33.0 m	91700833330	91710839330	91720839330
34.0 m	91700833340	91710839340	91720839340
35.0 m	91700833350	91710839350	91720839350
36.0 m	91700833360	91710839360	91720839360
37.0 m	91700833370	91710839370	91720839370
38.0 m	91700833380	91710839380	91720839380
39.0 m	91700833390	91710839390	91720839390
40.0 m	91700833400	91710839400	91720839400
41.0 m	91700833410	91710839410	91720839410
42.0 m	91700833420	91710839420	91720839420
43.0 m	91700833430	91710839430	91720839430
44.0 m	91700833440	91710839440	91720839440
45.0 m	91700833450	91710839450	91720839450
46.0 m	91700833460	91710839460	91720839460
47.0 m	91700833470	91710839470	91720839470
48.0 m	91700833480	91710839480	91720839480
49.0 m	91700833490	91710839490	91720839490
50.0 m	91700833500	91710839500	91720839500
51.0 m	91700833510	91710839510	91720839510

LED SHAFT LIGHTING PRE-CONFIGURED INCL. EMERGENCY UNIT

Shaft Height up to	LED ribbon Item No.	Machine Room with 4-Function Pit Control Box Item No.	Machine Room Bottom with 4-Function Pit Control Box Item No.
8.0 m	91800933080	91810939080	91820939080
9.0 m	91800933090	91810939090	91820939090
10.0 m	91800933100	91810939100	91820939100
11.0 m	91800933110	91810939110	91820939110
12.0 m	91800933120	91810939120	91820939120
13.0 m	91800933130	91810939130	91820939130
14.0 m	91800933140	91810939140	91820939140
15.0 m	91800933150	91810939150	91820939150
16.0 m	91800933160	91810939160	91820939160
17.0 m	91800933170	91810939170	91820939170
18.0 m	91800933180	91810939180	91820939180
19.0 m	91800933190	91810939190	91820939190
20.0 m	91800933200	91810939200	91820939200
21.0 m	91800933210	91810939210	91820939210
22.0 m	91800933220	91810939220	91820939220
23.0 m	91800933230	91810939230	91820939230
24.0 m	91800933240	91810939240	91820939240
25.0 m	91800933250	91810939250	91820939250
26.0 m	91800933260	91810939260	91820939260
27.0 m	91800933270	91810939270	91820939270
28.0 m	91800933280	91810939280	91820939280
29.0 m	91800933290	91810939290	91820939290
30.0 m	91800933300	91810939300	91820939300
31.0 m	91800933310	91810939310	91820939310
32.0 m	91800933320	91810939320	91820939320
33.0 m	91800933330	91810939330	91820939330
34.0 m	91800933340	91810939340	91820939340
35.0 m	91800933350	91810939350	91820939350
36.0 m	91800933360	91810939360	91820939360
37.0 m	91800933370	91810939370	91820939370
38.0 m	91800933380	91810939380	91820939380
39.0 m	91800933390	91810939390	91820939390
40.0 m	91800933400	91810939400	91820939400
41.0 m	91800933410	91810939410	91820939410
42.0 m	91800933420	91810939420	91820939420
43.0 m	91800933430	91810939430	91820939430
44.0 m	91800933440	91810939440	91820939440
45.0 m	91800933450	91810939450	91820939450
46.0 m	91800933460	91810939460	91820939460
47.0 m	91800933470	91810939470	91820939470
48.0 m	91800933480	91810939480	91820939480
49.0 m	91800933490	91810939490	91820939490
50.0 m	91800933500	91810939500	91820939500
51.0 m	91800933510	91810939510	91820939510

ACCESSORIES

91800029370	Power supply unit with batteries to be installed in control cabinet
91800012240	LED-converter with 5m feeding cable

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