



**STRACK**  
LIFT AUTOMATION

**WL01**

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## Reflex light barrier for lifts.



# WL01

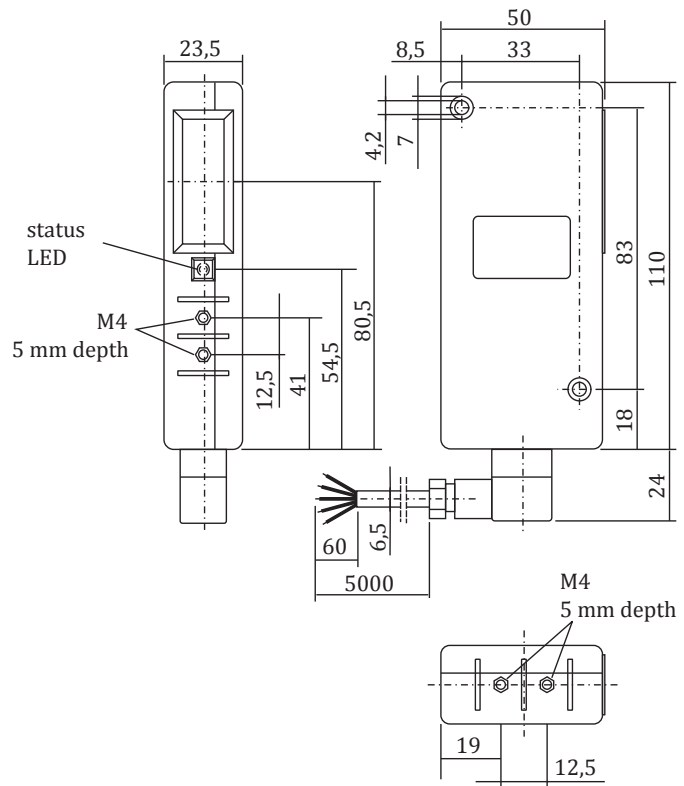
On lift doors for which light grids appear to be too intricate or cannot be used for compatibility reasons, various types of light barriers continue to be used.

Since the takeover of the company LEHNER Optoelektronik GmbH we have been producing the LEHNER WL01 light barrier and other special light barriers for cash desks, accesses and machines.



# WL01

## Reflex light barrier for lifts.



### Description

In the case of the WL01 reflective light barrier, which was specially developed for lift construction, particular emphasis was placed on the high immunity to interference with respect to mains voltage spikes. The electrical connection can be made directly with the operating voltage, as all function groups such as the power supply unit, booster and relay output are accommodated in the housing. Further special advantages of this light barrier are guaranteed by the universal voltage technology (24 -240 V AC/DC), the insensitivity to interference voltage, vibrations and extraneous light, the wide range of attachment possibilities, the plug-in cable on the light barrier and the safe function at a distance of „0“.

### Connection

gray cable		black cable	
+ L1	yellow	+ L1	black
- N	green	- N	blue
	brown		gray
	gray		brown
	white		white

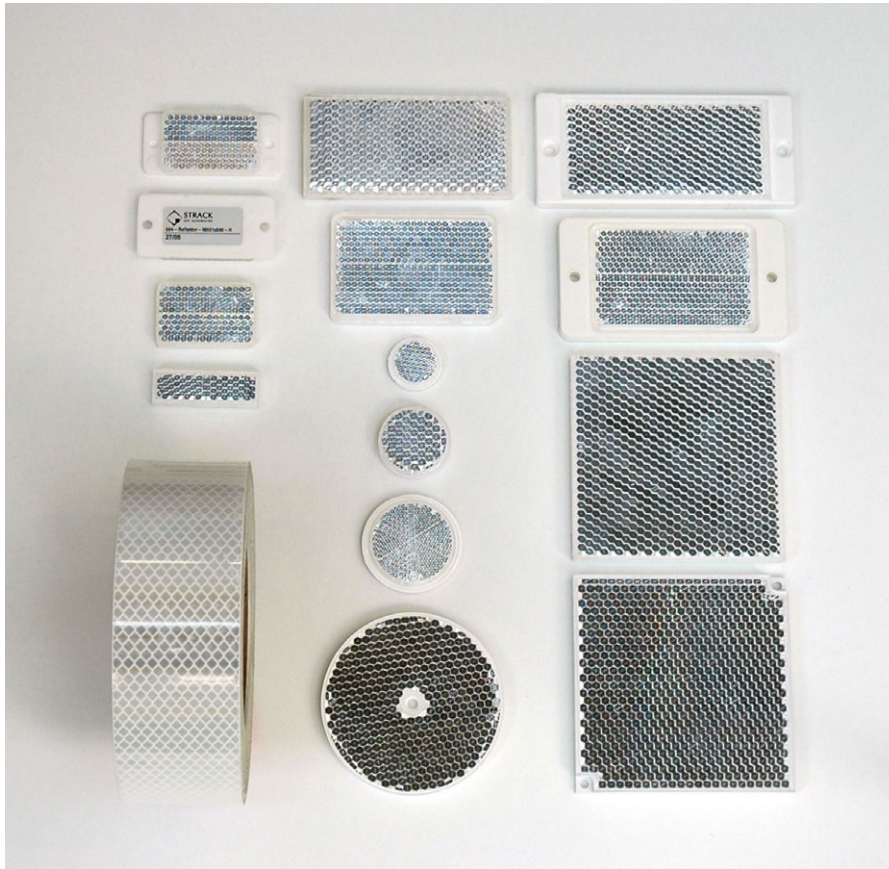
### Technical data

dimensions	mm	110 x 23,5 x 50
dimensions of the lens	mm	37 x 13
fixation		see dimension drawing
case material		fibre-glass reinforced Makrolon
weight	g	200
protection class		IP41
mounting position		arbitrary
connecting cable		5 m pluggable, D = 7 mm
wavelength	nm	950
ambient temperature	°C	-20 bis +60
storage temperature	°C	-20 bis +70
luminous spot at 3 m	mm	80 x 80
reflector		on request
operating voltage	V	24 ... 240 AC/DC (universal voltage)
power consumption	VA	2,5
output relay		1xCO (with inductive loads please schedule spark quenching)
max. switching current	A	4 (ohmic)
max. switching voltage	V	250
max. switching power	VA	250
max. switching frequency	Hz	10
nominal range	m	0 - 1,3 (with reflector M 18 x 54) 0 - 2,0 (with reflector M 31 x 46) 0 - 3,0 (with reflector M 54 x 80) 0 - 4,0 (with reflector M 50 x 100) 0 - 3,2 (with reflector M 22) 0 - 3,5 (with reflector M 40) 0 - 5,0 (with reflector M 80)

### Order data

Type	Item No.	Description
684-WL01/K109-1	00012732	Reflex light barrier WL01/K109-1; 24-240V AC/DC gray cable 5m; pluggable at the light barrier

## Reflectors



### Description

Triple reflectors are small pyramid-shaped triple mirrors combined as a reflection surface. Three pyramid-shaped mirror surfaces combined together at an angle below  $90^\circ$  reflect the incident light beam of light three times on a mirror surface. These enable the reflection of the beam of light almost parallel to itself. Vibration, slight movements and swivelling up to  $30^\circ$  to the visual axis of the triple reflector do not interrupt the beam of light.

Our triple reflectors can be used universally, including for light barriers of other manufacturers with and without a so-called polarising filter. They are tested optically and therefore have a very strong reflective effect. There are round and angular versions available, as well as self-adhesive types and those with a screw attachment.

Reflector foils can also be tilted or swivelled. In contrast to the triple reflector, the degree of reflection does not fall so strongly in this case because small mirrors induce the reflection in conjunction with micro-glass pearls. An advantage of the reflector foil is its flexibility during installation. Its reflective effect does not, however, reach the degree of reflection of a triple reflector. It cannot be used for polarising filter light barriers.

### Order data

#### Triple reflectors round

Type	Item No.	Description
684-Reflektor-M022	00012711	Triple reflector white round 22 mm, optically tested, with adhesive foil
684-Reflektor-M030	00012712	Triple reflector white round 30 mm, optically tested, with adhesive foil
684-Reflektor-M040	00012715	Triple reflector white round 40 mm, optically tested, with adhesive foil
684-Reflektor-M080	00012719	Triple reflector white round 80 mm, optically tested, with center fixation hole

#### Triple reflectors rectangular

Type	Item No.	Description
684-Reflektor-M018x054	00012710	Triple reflector white 18 x 54 mm, optically tested, with adhesive foil
684-Reflektor-M031x046	00012713	Triple reflector white 31 x 46 mm, optically tested, with adhesive foil
684-Reflektor-M031x046-H	00012714	Triple reflector white 31 x 46 mm, optically tested, with fixation frame
684-Reflektor-M040x180	00012716	Triple reflector white 40 x 180 mm, optically tested, with adhesive foil
684-Reflektor-M050x100	00022177	Triple reflector white 50 x 100 mm, optically tested, with adhesive foil
684-Reflektor-M050x100-H	00012717	Triple reflector white 50 x 100 mm, optic. tested, with fixation frame
684-Reflektor-M054x080	00022176	Triple reflector white 54 x 80 mm, optically tested, with adhesive foil
684-Reflektor-M054x080-H	00012718	Triple reflector white 54 x 80 mm, optically tested, with fixation frame
684-Reflektor-M100x100	00012720	Triple reflector white 100 x 100 mm, optic. tested, with adhesive foil
684-Reflektor-M100x100-H	00012721	Triple reflector white 100 x 100 mm, optic. tested, with fixation frame

#### Reflex foil

Type	Item No.	Description
684-Reflektorfolie3000X	00012722	Reflector foil, width 50 mm, optically tested, with adhesive layer