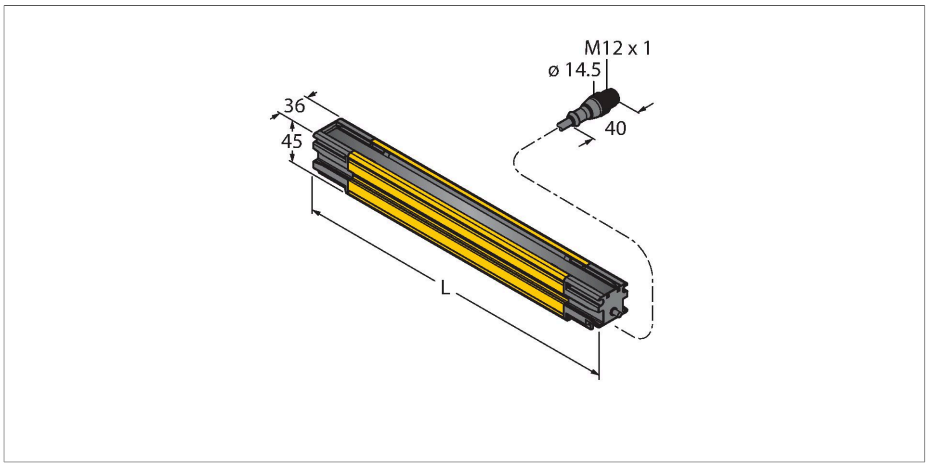
SLLP40-1540P88
Safety Technology – Safety Light Curtain Pair



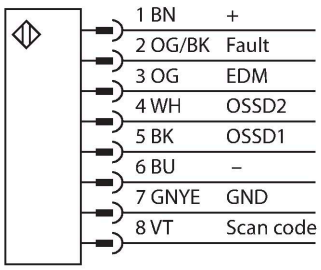
Technical data

Type	SLLP40-1540P88
ID	3089730
Optical data	
Function	Light screen
Light type	IR
Optical resolution	40 mm
Range	100…12000 mm
Scan field	1540 mm
Number of beams	44
With muting function	no
Scan Code	Adjustable
Electrical data	
Operating voltage	20.4…27.6 VDC
DC rated operational current	≤ 135 mA
Max. current safe output	500 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	2 normally open contact, 2 × PNP
Voltage output	0…22.5 V
Current output	0 mA
Number of safe semiconductor outputs	2
Response time typical	< 14.2 ms
With restart interlock	yes
Blanking function	yes
Max. DC switching capacity	12 W

Features

- Rugged housing
- Protection class IP67
- Diagnosis display for status and error indication
- Scan field L: 1540 mm
- Optical Alignment aid
- No blind zone
- Range: 0.1…12 m
- Resolution: 40 mm
- Operating voltage: 24 VDC
- No restart interlock
- Safety light curtain type 4 acc. to IEC 61496-1 and 61496-2
- Category 4 Ple acc. to EN ISO 13849-1
- SIL 3 acc. to IEC 61508 SIL 3 and CL3 acc. to IEC 62061
- Shock and vibration resistant acc. to IEC 61496-1

Wiring diagram



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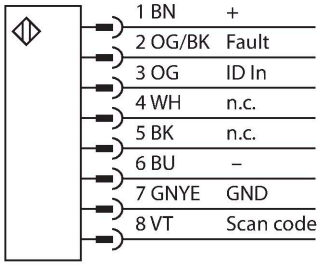
Technical data

Mechanical data	
Design	Rectangular, EZ-Screen LS
Dimensions	45 x 36 x 1545 mm
Housing material	Metal, AL, Yellow polyester
Lens	acrylic, Plastic
Cascadable	No
Electrical connection	Cable with connector, M12 × 1, 0.3 m
Number of cores	8
Core cross-section	0.25 mm^2
Ambient temperature	-20…+55 °C
Protection class	IP65 IP67
Power-on indication	LED, Yellow
Switching state	LED, Red
Error indication	LED, red
Tests/approvals	
Vibration resistance	10–55 Hz at 0.35 mm
Shock test	10 g at 16 ms (6000 cycles)
Approvals	CE, cULus, PL e acc. to EN ISO 13849-1:2008, SIL 3 acc. to IEC 61508



Functional principle

The self-monitoring safety light screens with redundant switching outputs are available in lengths up to 1.8 m and resolutions of 14, 23 or 40 mm. The devices are available individually or in pairs and are synchronized optically - a physical connection between transmitter and receiver is not necessary. For versions with cascading no further configuration is necessary. The setting is made automatically. Up to 4 couples of any length and resolution can be connected together. The dual scan of each receiver provides immunity against EMI, radio wave, ambient or strobe lights and welding sparks. All recipients have no restart interlock – an automatic reset is performed. If required individual beams can be hidden.
The robust and sealed housing is ideally suited for industrial use. Status and error code can be read out in case of need via the diagnostic display. For easy mounting, LEDs indicate the proper alignment of each segment.

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