

SLLE40-420-S

Safety Technology – Safety Light Curtain Emitter



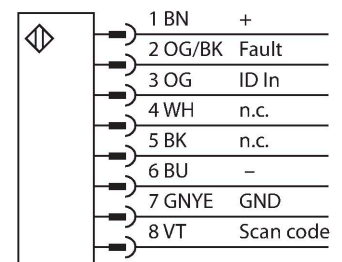
Technical data

Type	SLLE40-420-S
ID no.	3808943
Optical data	
Function	Light screen
Light type	IR
Optical resolution	40 mm
Range	100...12000 mm
Scan field	420 mm
Number of beams	12
With muting function	no
Electrical data	
Operating voltage	20.4...27.6 VDC
DC rated operational current	≤ 25 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Response time typical	< 8.2 ms
Blanking function	yes
Mechanical data	
Design	Rectangular, EZ-Screen LS
Dimensions	45 x 36 x 425 mm
Housing material	Metal, AL, Yellow
Lens	acrylic, Plastic
Cascadable	no
Electrical connection	Flat connector
Ambient temperature	-20...+55 °C
Protection class	IP67

Features

- Rugged housing
- Protection class IP67
- Diagnosis display for status and error indication
- Scan field L: 420 mm
- Optical Alignment aid
- No blind zone
- Range: 0.1...12 m
- Resolution: 40 mm
- Operating voltage: 24 VDC
- 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
- The device is supplied without wiring or mounting brackets. Wiring and mounting brackets must be selected under connection or mounting accessories and are required to operate the device.

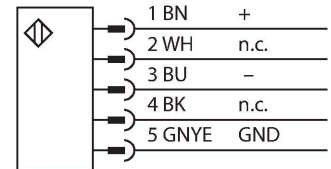
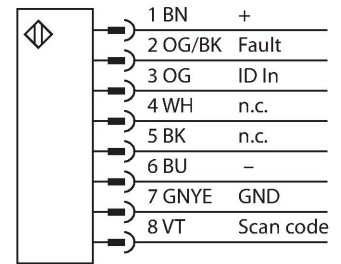
Wiring diagram



Technical data

Tests/approvals

Approvals	CE, cULus, PL e acc. to EN ISO 13849-1:2008, SIL 3 acc. to IEC 61508
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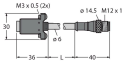
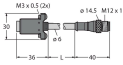
Functional principle

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.

Accessories

EZLSA-MBK-16 Kein Maßbild vorhanden/ No dimension drawing available	3088559 Mounting bracket, black, die-cast zinc, for side mounting of an LS light screen	EZLSA-MBK-11 Kein Maßbild vorhanden/ No dimension drawing available	3087521 Mounting bracket, rotatable 360°, black, steel, for end mounting of an LS light screen
EZLSA-MBK-12 Kein Maßbild vorhanden/ No dimension drawing available	3090989 Mounting bracket, black, die-cast zinc, for central mounting of LS light screens larger than 980 mm	EZLSA-MBK-20 Kein Maßbild vorhanden/ No dimension drawing available	3093176 Mounting bracket, rotatable 360°, black, steel, universal mounting bracket for end mounting of an LS light screen

Accessories

Dimension drawing	Type	ID no.	
 <p>M3 x 0.5 (D0) Ø 14.5 M12 x 1 30 0.5 40</p>	DELSE-51D	3086941	Connection cable, 5-pin, M12 male connector, PVC, yellow, length: 0.31 m, RD male connector for direct connection to LS light screen
 <p>M3 x 0.5 (D0) Ø 14.5 M12 x 1 30 0.5 40</p>	DELSE-81D	3086942	Connection cable, 8-pin, M12 male connector, PVC, yellow, length: 0.31 m, RD male connector for direct connection to LS light screen
<p>Kein Maßbild vorhanden/ No dimension drawing available</p>	RDLS-815D	3093156	Connection cable, 8-pin, open end, PVC, yellow, length: 4.57 m, RD male connector for direct connection to LS light screen
<p>Kein Maßbild vorhanden/ No dimension drawing available</p>	RDLS-515D	3801010	Connection cable, 5-pin, open end, PVC, yellow, length: 4.57 m, RD male connector for direct connection to LS light screen