SLC4P24-320P44
Safety Technology –   Safety Light Curtain Pair
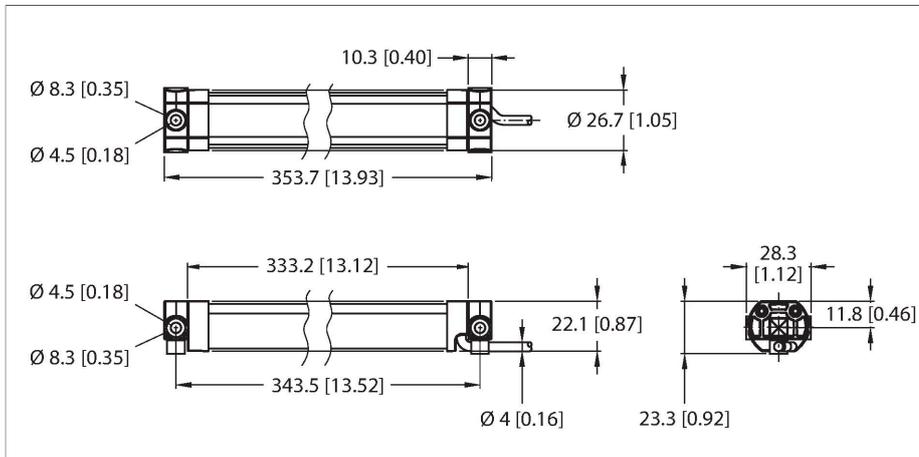

Technical data

Type	SLC4P24-320P44
ID	3806333
Optical data	
Function	Light screen
Light type	IR
Wavelength	860 nm
Optical resolution	24 mm
Range	100…2000 mm
Scan field	320 mm
With muting function	no
Scan Code	None
Electrical data	
Operating voltage	20.4…27.6 VDC
Residual ripple	< 10 % U_{ss}
No-load current	≤ 100 mA
Max. current safe output	300 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NC contact, 2 × PNP
Number of safe semiconductor outputs	2
Response time typical	< 8 ms
Blanking function	no
Mechanical data	
Design	Rectangular, SLC4
Dimensions	22.1 x 26.7 x 333 mm

Features

- Protection class IP65
- Zones and status indicators
- Scan field 320 mm
- Length (L): 333 mm
- High immunity to EMI, RFI, ambient light, welding sparks and strobe light
- 2x OSSD output
- 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
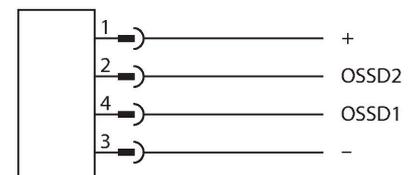
Functional principle

The self-monitoring safety light curtains with redundant switching outputs are available in lengths up to 320 mm and resolutions of 14 or 24 mm. The devices are available individually or in pairs and synchronize optically - a physical connection between transmitter and receiver is not required. The setting is made automatically. 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.

Technical data

Housing material	Plastic, PC, Polycarbonate, clear/polyester, yellow
Lens	plastic, PC
Cascadable	No
Electrical connection	Cable with connector, M12 × 1, 0.3 m, PVC
Number of cores	4
Ambient temperature	-20…+55 °C
Protection class	IP65
Power-on indication	LED, Green
Switching state	LED, Red
Error indication	LED, red
Tests/approvals	
Vibration resistance	10-55 Hz bei 0,35 mm
Shock test	10 g bei 16 ms (6000 Zyklen)
Approvals	CE, cULus, PL e acc. to EN ISO 13849-1:2008, SIL 3 acc. to IEC 61508
Approvals	CE cULus
PL acc. to DIN EN 13849-1:2008	e
Category acc. to DIN EN 13849-1:2008	4
SIL according IEC 61508	3
Useful Lifetime	20 years
Coding level/tamper protection	Uncoded

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.