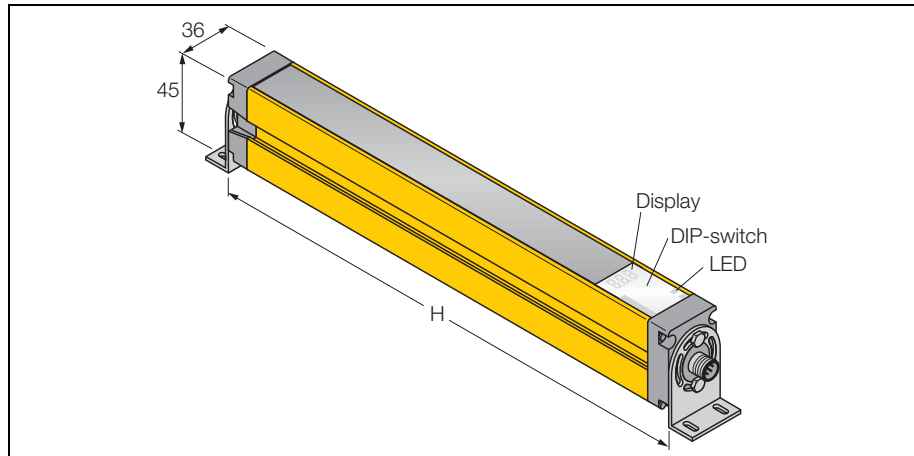


light screen for machine safety applications

receiver

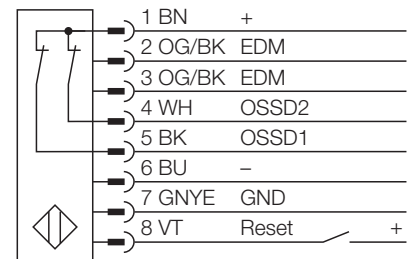
SLSR14-450Q8



- Personnel safety category PLe acc. to ISO 13849-1
- Category 4 according to EN 945-1, or type 4 according to IEC 61496-1, -2
- SIL 3 to IEC 61508
- adjustment via DIP switch
- male connector, M12 x 1, 8-pole
- blanking function
- resolution 14 mm
- detection zone height 450 mm
- operational voltage 24 VDC +15%
- degree of protection IP65

Type	SLSR14-450Q8
Ident-No.	3071222
Operating mode	light screen
Optical resolution	14 mm
Range	100... 6000 mm
Detection zone height	450 mm
Ambient temperature	0...+ 50°C
Operating voltage	20... 28 VDC
No-load current I_0	≤ 275 mA
Output function	2x NC, 2 x PNP
Response time	< 19ms
Housing	rectangular, EZ-Screen
Dimensions	45x 36x 522mm
Housing material	Metal, AL
Lens	plastic, acrylic
Electrical connection	Connectors, M12 x 1
Protection class	IP65
Operating voltage	LED green
Switching state	2-color LED red

Wiring diagram



Functional principle

The high-resolution personnel safety light screen consists of an emitter and a receiver. As the system is synchronised optically, emitter/receiver wiring is redundant. The safety switching outputs of the receiver are directly connected to a load relay (e.g. IM-TA9A) and trigger an immediate stop of the dangerous machine cycle. Personnel safety degree type 4 according to IEC 61496 is fulfilled due to 2-channel monitoring of the switching device and the diverse redundant construction with mutual processor control.