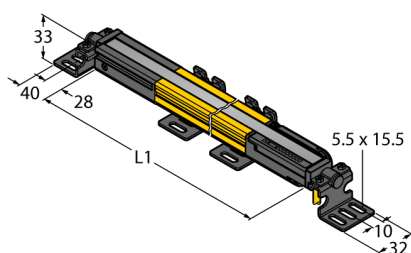
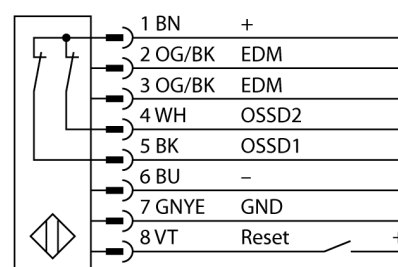


Safety Light Curtain Emitter/Receiver Pair SLPVAP14-550P88



- Adjustments via DIP switch
- Resolution reducible
- Blanking function
- Operating voltage: 24 VDC $\pm$ 15%
- Resolution 14 mm
- Scan field 550 mm (L1)

Wiring Diagram



Functional principle

The high-resolution safety light screen is an emitter and receiver in one without a blind zone. As the system is optically synchronized, emitter/receiver wiring is superfluous. The receiver's safety switching outputs are directly connected to a load relay (e.g. IM-T-9A) and trigger an immediate stop of dangerous machine cycles. Personnel safety category PLe pursuant to ISO 13849-1 is ensured through 2-channel monitoring of the switching device and the principle of diverse redundancy by which two processors control each other mutually.

Type	SLPVAP14-550P88
ID	3802306
Optical data	
Function	Light screen
Light type	IR
Wavelength	850 nm
Optical resolution	14 mm
Range	0...7000 mm
Scan field	550 mm
Scan Code	None
Electrical data	
Operating voltage U_s	20...28 VDC
Residual ripple	< 10 % U_s
DC rated operating current I_s	$\leq$ 210 mA
No-load current I_o	$\leq$ 275 mA
Max. current safe output	500 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	2 x NC contact, 2 x PNP
Number of safe semiconductor outputs	2
Insulation class	III
Response time typical	< 16.5 ms
With restart interlock	yes
Blanking function	yes
Mechanical data	
Design	Rectangular, EZ-Screen LP
Housing material	Metal, AL, Yellow polyester
Lens	plastic, Acryl
Electrical connection	Cable with connector, M12 $\times$ 1
Number of cores	8
Ambient temperature	0...+55 °C
Protection class	IP54
Power-on indication	
LED, Green	
Switching state	2-color LED, Red

Tests/approvals	
Vibration resistance	10–55 Hz at 0.35 mm
Shock test	10 g at 16 ms (6000 cycles)