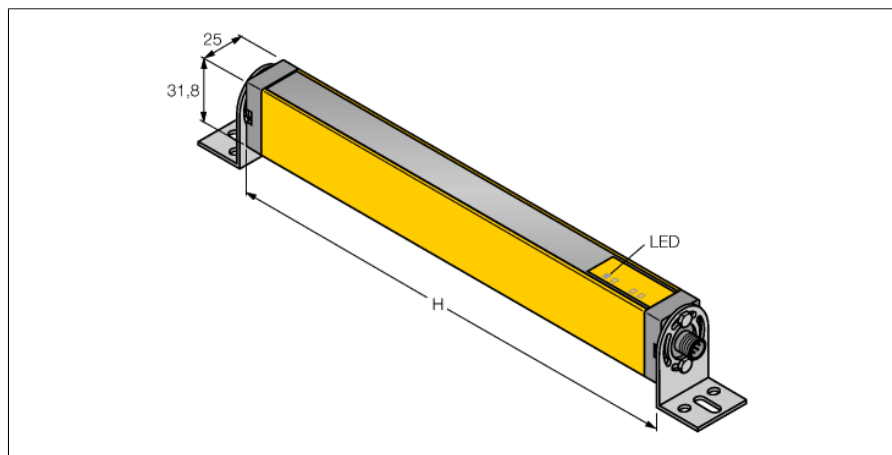


light screen for machine safety applications

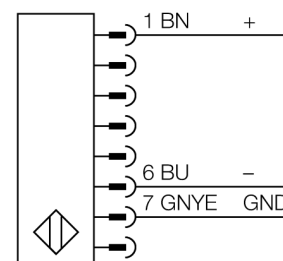
emitter

LS2E30-1200Q8



- Type 2 acc. to IEC 61496-1,-2; category 2 PLd acc. to EN ISO 13849-1; SIL2 acc. to IEC 61508
- Male M12 x 1, 8-pin
- Protection class IP65
- Scan field 1200 mm
- Resolution 30 mm
- Internal testing in 500 ms cycle
- Range 15 m
- Operating voltage 24 VDC $\pm 15\%$

Wiring diagram



Type code	LS2E30-1200Q8
Ident no.	3073531

Operating mode	light screen
Light type	IR
Wavelength	950 nm
Optical resolution	30 mm
Range	200...15000 mm
Detection zone height	1200 mm
Ambient temperature	0...+55 °C

Operating voltage	20...28VDC
Residual ripple	< 15 % U_{s0}
No-load current I_0	≤ 50 mA
Response time	< 22 ms

Design	rectangular, EZ-Screen
Dimensions	31.8 x 25.2 x 1264 mm
Housing material	metal, AL, yellow
Lens	plastic, acrylic
Connection	male, M12 x 1
Protection class	IP65

Power-on indication	LED green
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Functional principle

The safety light curtain consists of an emitter and a receiver. The system is optically synchronized, making the wiring between emitter and receiver redundant. The receiver's safety switching outputs are directly connected to a load relay and trigger an immediate stop of the dangerous machine cycle. Due to the dual-channel design of the switching device, personal safety degree type 2 acc. to IEC 61496 and category 2 acc. to EN 9541 are fulfilled.