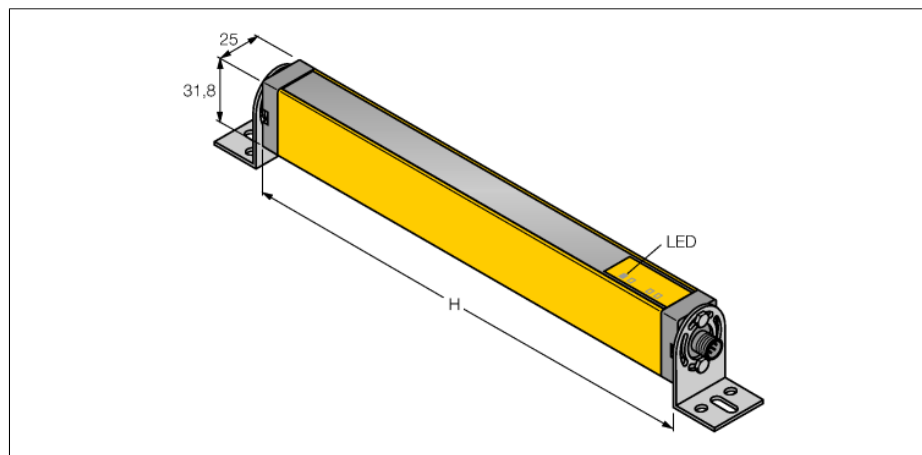


light screen for machine safety applications
emitter/receiver pair
LS2LP30-1650Q88

TURCK

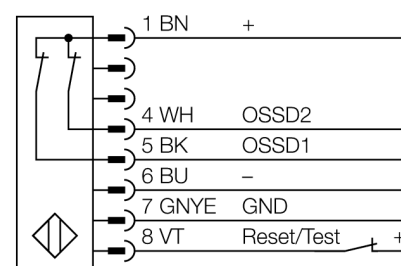
Industrial
Automation



- personnel safety category 2 (IEC 61496-1,-2), category 2 acc.to ISO 13849-1 (EN 954-1)
- emitter with male connector, M12 x 1, 8-pole
- receiver with male connector, M12 x 1, 8-pole
- switching output with latching function
- sensing range 15 m
- detection zone height 1,650 mm
- resolution 30 mm
- operational voltage 24 VDC +15%
- Internal test in 500 ms cycle
- degree of protection IP65

Type	LS2LP30-1650Q88
Ident-No.	3077256
Operating mode	light screen
Light type	IR
Wavelength	950 nm
Optical resolution	30 mm
Range	200...15000 mm
Detection zone height	1650 mm
Ambient temperature	0...+55 °C
Operating voltage	20...28VDC
No-load current I_0	≤ 90 mA
Output function	2x NC, 2 x PNP
Response time	< 27 ms
Design	rectangular, EZ-Screen
Dimensions	31.8 mm x 25.2 mm x 1713 mm
Housing material	Metal, AL
Lens	plastic, acrylic
Connection	connector, M12 x 1
Protection class	IP65
Operating voltage	LED green
Switching state	LED red

Wiring diagram



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.