

light screen for machine safety applications
emitter/receiver pair
LS2LP30-450Q88



- 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 450 mm
- Resolution 30 mm
- Internal testing in 500 ms cycle
- Range 15 m
- Operating voltage 24 VDC +-15%
- Switching output with LATCH
- Muting is not supported

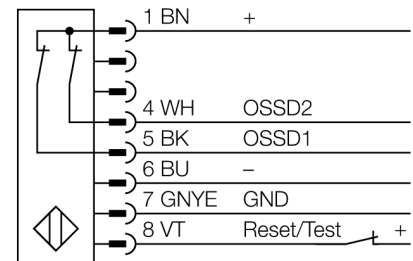
Type code LS2LP30-450Q88
Ident no. 3073566

Operating mode light screen
Light type IR
Wavelength 950 nm
Optical resolution 30 mm
Range 200...15000 mm
Detection zone height 450 mm
Ambient temperature 0...+55 °C

Operating voltage 20...28VDC
Residual ripple < 15 % U_s
No-load current I₀ ≤ 90 mA
Output function 2x NC, 2 x PNP
Response time < 14 ms

Design rectangular, EZ-Screen
Dimensions 31.8 x 25.2 x 515 mm
Housing material metal, AL, yellow
Lens plastic, acrylic
Connection male, M12 x 1
Protection class IP65

Power-on indication 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.