

Main

Commercial Status	Commercialised
Range of product	Preventa Safety detection
Product or component type	Safety light curtain type 4
Device short name	XUSLP
Design	Compact
Detection system	Transmitter-receiver system
Product specific application	For body protection
Height protected	600 mm
[Sn] nominal sensing distance	0.8...8 m
Minimum object diameter for detection	600 mm
Response time	< 24 ms depending on light beam coding A < 20 ms depending on light beam coding B < 16 ms depending on light beam coding C
Number of beams	2
Type of receiver	Passive

Complementary

Kit composition	1 receiver 1 transmitter 1 user guide with certificate of conformity 2 sets of 2 brackets with fixings
[EAA] effective aperture angle	2.5 ° at 3 m
Light source	GaAIAs LED, 850 nm
[Us] rated supply voltage	24 V DC (+/- 20 %)
[Ie] rated operational current	2 A
Current consumption	1.6 A with maximum load (receiver) 300 mA no-load (receiver) 100 mA (transmitter)
Output type	2 safety outputs OSSD solid-state PNP (NO) (short-circuit protection) 1 auxiliary output solid-state PNP
Output current limits	<= 650 A for safety outputs OSSD <= 100 A for auxiliary output
Output voltage	24 V
Output circuit type	DC
Switching capacity in mA	650 mA
Monitoring act of of relay MPCE/EDM	50 mA
Local signalling	3 LEDs (receiver), function: stop, run, interlock + 2 digit display 1 LED (transmitter), function: power supply
Electrical connection	1 male connector M12 8 pins (receiver) 1 male connector M12 5 pins (transmitter)
Function available	Monitoring of external switching devices Display of operating modes and alarm by LEDs and 2-digit display Auto, manual, manual 1st cycle Alignment aid by display of each light beam broken
Marking	CE
Material	Front face: acrylic End caps: 20 % fibre glass impregnated nylon Casing: aluminium
Fixing mode	End brackets
Product weight	6.7 kg

Environment

Standards	ANSI B11:19-1990 ANSI/RIA R15.06 EMC directive 89/336 EEC EN/IEC 61496-1 EN/IEC 61496-1-2 for type 4 ESPE EN/IEC 61496-2 OSHA 1910-212 OSHA 1910-217C Work equipment directive 89/655/EEC Machinery directive 2006/42/CE
Product certifications	CSA TÜV UL
Safety level	Can reach PL = e conforming to EN/ISO 13849-1 (correctly wired) Can reach category 4 conforming to EN/ISO 13849-1 (correctly wired) Can reach SIL 3 conforming to IEC 61508 (correctly wired) Type 4 conforming to IEC 61496-1-2
Safety reliability data	PFH = 2.7E-9 1/h conforming to IEC 61508 (verified in worst case conf: 6 beams), proof test interval = 20 yr
Ambient air temperature for operation	0...55 °C
Ambient air temperature for storage	-25...75 °C
Relative humidity	<= 95 % without condensation
IP degree of protection	IP67 IP65
Shock resistance	10 gn for 16 ms conforming to IEC 61496-1
Vibration resistance	0.35 +/- 0.05 mm (f = 10...55 Hz) conforming to IEC 61496-1

RoHS compliance

RoHS EUR status	Compliant
RoHS EUR conformity date(YYWW)	0730

Contractual warranty

Period	18 months
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