

Main

Commercial Status	Commercialised
Range of product	Preventa Safety detection
Series name	Basic
Product or component type	Safety light curtain type 4
Device short name	XUSLB
Output type	2 safety outputs OSSD solid-state PNP (NO) (short-circuit protection) 1 auxiliary output solid-state PNP
Product specific application	For hand protection
Minimum object diameter for detection	30 mm
[Sn] nominal sensing distance	0.3...8 m 20 m with Programming and Diagnostic Module (PDM)
Height protected	1400 mm
Number of beams	70

Complementary

Detection system	Transmitter-receiver system
Response time	23 ms
Kit composition	1 arc suppressor set 1 user guide with certificate of conformity on CD-ROM 1 receiver 1 test rod 1 transmitter 2 sets of 2 brackets with fixings
[EAA] effective aperture angle	2.5 ° at 3 m
Light source	GaAIAs LED, 880 nm
[Us] rated supply voltage	24 V DC (+/- 20 %)
[Ie] rated operational current	2 A
Current consumption	1.8 A with maximum load (receiver) 450 mA no-load (receiver) 285 mA (transmitter)
Output current limits	<= 625 A for safety outputs OSSD 100 mA for auxiliary output
Output voltage	24 V
Output circuit type	DC
Switching capacity in mA	50 mA
Local signalling	4 LEDs (receiver), function: stop, run, interlock, ECS/B Blanking or FB (Floating Blanking) 1 LED (transmitter), function: power supply
Electrical connection	1 female connector M12 8 pins (receiver) 1 female connector M12 5 pins (transmitter)

Function available	<p>Test (MTS: Monitoring Test Signal) accessible by cabling alone</p> <p>Sensing distance (short, long) accessible via programming and diagnostic module</p> <p>Programming+Downloading of conf settings, via programming+diagnostic module(PDM) accessible via programming and diagnostic module</p> <p>Monitoring of external switching devices (EDM: External Device Monitoring) accessible via programming and diagnostic module</p> <p>Light beam coding (A or B) accessible via programming and diagnostic module</p> <p>LED display of operating modes and faults accessible by cabling alone</p> <p>Display of operating modes and faults by LED and/or PDM accessible via programming and diagnostic module</p> <p>Auxiliary output (PNP, status signalling) accessible by cabling alone</p> <p>Automatic start accessible by cabling alone</p> <p>Auto/Manual accessible via programming and diagnostic module</p> <p>Alignment aid by display of each light beam broken accessible by cabling alone</p>
Marking	CE
Material	<p>End caps: 20 % fibre glass impregnated nylon</p> <p>Casing: aluminium</p>
Fixing mode	End brackets
Product weight	6.8 kg

Environment

Standards	<p>ANSI B11:19-1990</p> <p>ANSI/RIA R15.06</p> <p>EMC directive 89/336 EEC</p> <p>EN/IEC 61496-1</p> <p>EN/IEC 61496-1-2 for type 4 ESPE</p> <p>EN/IEC 61496-2</p> <p>OSHA 1910-212</p> <p>OSHA 1910-217C</p> <p>ROHS directive 2002/95/EC</p> <p>Work equipment directive 89/655/EEC</p> <p>Machinery directive 2006/42/EC</p>
Product certifications	<p>CSA</p> <p>TÜV</p> <p>UL</p>
Safety level	<p>Can reach PL = e conforming to EN/ISO 13849-1 (correctly wired)</p> <p>Can reach category 4 conforming to EN/ISO 13849-1 (correctly wired)</p> <p>Can reach SIL 3 conforming to IEC 61508 (correctly wired)</p> <p>Type 4 conforming to IEC 61496-1-2</p>
Safety reliability data	PFH = 4.9E-8 1/h conforming to IEC 61508 (verified in worst case conf: 256 beams, 2 segments, mute), proof test interval = 20 yr
Ambient air temperature for operation	-10...55 °C
Ambient air temperature for storage	-25...75 °C
Relative humidity	<= 95 % without condensation
IP degree of protection	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)	0806

Contractual warranty

Period	18 months
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