



Main

Range of product	Telemecanique Safety light curtains XUSL
Series name	Advanced
Product or component type	Safety light curtain type 4
Device short name	XUSLDM
Output type	1 auxiliary output solid-state PNP/NPN 2 safety outputs OSSD solid-state PNP (NO) (short-circuit protection)
Product specific application	For hand protection
Minimum object diameter for detection	30 mm
[Sn] nominal sensing distance	8 M with Programming and Diagnostic Module (PDM) 0.3...20 m
Height protected	520 mm
Number of beams	26

Complementary

Detection system	Transmitter-receiver system
Response time	23 ms normal 38 ms slow
Kit composition	1 user guide with certificate of conformity on CD-ROM 2 sets of 2 brackets with fixings Arc suppressor set(s) Receiver(S) Test rod(s) transmitter(s)
[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	450 mA no-load receiver 1.8 A with maximum load receiver 285 mA transmitter
Output current limits	100 mA for auxiliary output 625 mA for safety outputs OSSD
Output voltage	24 V
Output circuit type	DC
Monitoring act of of relay MPCE/EDM	50 mA
Local signalling	1 LED transmitter power supply 4 LEDs receiver stop, run, interlock, ECS/B Blanking or FB (Floating Blanking)
Electrical connection	1 female connector M12 5 pins transmitter 1 female connector M12 8 pins receiver

Function available	<p>Alignment aid by display of each light beam broken accessible by cabling alone</p> <p>Automatic start accessible by cabling alone</p> <p>Automatic/Manual, manual first cycle accessible via programming and diagnostic module</p> <p>Auxiliary output (alarm or status signalling, PNP or NPN) accessible via programming and diagnostic module</p> <p>Auxiliary output (PNP, status signalling) accessible by cabling alone</p> <p>Blanking (ECS/B) accessible via programming and diagnostic module</p> <p>Cascadable versions with up to 4 segments total, using segments XUS LDS accessible via programming and diagnostic module</p> <p>Display of operating modes and faults by LED and/or PDM accessible via programming and diagnostic module</p> <p>Floating blanking (FB) accessible via programming and diagnostic module</p> <p>LED display of operating modes and faults accessible by cabling alone</p> <p>Light beam coding (A or B) accessible via programming and diagnostic module</p> <p>Monitored blanking 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>Muting 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>Reduction of resolution accessible via programming and diagnostic module</p> <p>Response time (normal, slow) accessible via programming and diagnostic module</p> <p>Sensing distance (short, long) accessible via programming and diagnostic module</p> <p>Start button (NO or NC, 0 V or 24 V) accessible via programming and diagnostic module</p> <p>Test (MTS: Monitoring Test Signal) accessible by cabling alone</p>
Marking	CE
Material	<p>Aluminium: casing</p> <p>20 % fibre glass impregnated nylon: end caps</p>
Fixing mode	End brackets
Net weight	2.87 kg

Environment

Standards	<p>Work equipment directive 2009/104/EC</p> <p>ANSI B11:19-1990</p> <p>EN/IEC 61496-1</p> <p>OSHA 1910-217C</p> <p>EN/IEC 61496-2</p> <p>ANSI/RIA R15.06</p> <p>EN/IEC 61496-1-2 for type 4 ESPE</p> <p>EMC 2004/108/EC</p> <p>OSHA 1910-212</p> <p>Machinery directive 2006/42/EC</p>
Product certifications	UL[RETURN]CSA[RETURN]TÜV
Safety level	<p>Can reach SIL 3 correctly wired conforming to IEC 61508</p> <p>Can reach category 4 correctly wired conforming to EN/ISO 13849-1</p> <p>Can reach PL = e correctly wired conforming to EN/ISO 13849-1</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 20 year(s)
Ambient air temperature for operation	-10...55 °C
Ambient air temperature for storage	-25...75 °C
Relative humidity	0...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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty	18 months
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