

XUSLDMY5A0320

safety light curtain type 4 - XUSLDM - for hand protection - 320 mm



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	320 mm
Number of beams	16

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	Alignment aid by display of each light beam broken accessible by cabling alone Automatic start accessible by cabling alone Automatic/Manual, manual first cycle accessible via programming and diagnostic module Auxiliary output (alarm or status signalling, PNP or NPN) accessible via programming and diagnostic module Auxiliary output (PNP, status signalling) accessible by cabling alone Blanking (ECS/B) accessible via programming and diagnostic module Cascadable versions with up to 4 segments total, using segments XUS LDS accessible via programming and diagnostic module Display of operating modes and faults by LED and/or PDM accessible via programming and diagnostic module Floating blanking (FB) accessible via programming and diagnostic module LED display of operating modes and faults accessible by cabling alone Light beam coding (A or B) accessible via programming and diagnostic module Monitored blanking accessible via programming and diagnostic module Monitoring of external switching devices (EDM: External Device Monitoring) accessible via programming and diagnostic module Muting accessible via programming and diagnostic module Programming+Downloading of conf settings, via programming+diagnostic module(PDM) accessible via programming and diagnostic module Reduction of resolution accessible via programming and diagnostic module Response time (normal, slow) accessible via programming and diagnostic module Sensing distance (short, long) accessible via programming and diagnostic module Start button (NO or NC, 0 V or 24 V) accessible via programming and diagnostic module Test (MTS: Monitoring Test Signal) accessible by cabling alone
Marking	CE
Material	Aluminium: casing 20 % fibre glass impregnated nylon: end caps
Fixing mode	End brackets
Net weight	1.97 kg

Environment

Standards	EN/IEC 61496-1-2 for type 4 ESPE OSHA 1910-212 EMC 2004/108/EC Work equipment directive 2009/104/EC Machinery directive 2006/42/EC ANSI B11:19-1990 ANSI/RIA R15.06 OSHA 1910-217C EN/IEC 61496-2 EN/IEC 61496-1
Product certifications	UL[RETURN]TÜV[RETURN]CSA
Safety level	Can reach SIL 3 correctly wired conforming to IEC 61508 Can reach category 4 correctly wired conforming to EN/ISO 13849-1 Can reach PL = e correctly wired conforming to EN/ISO 13849-1 Type 4 conforming to IEC 61496-1-2
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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