



Main

| | |
|---------------------------------------|---|
| Range of product | Preventa Safety detection |
| Series name | Advanced |
| Product or component type | Safety light curtain type 4 |
| Device short name | XUSLDM |
| Output type | 2 safety outputs OSSD solid-state PNP (NO) (short-circuit protection) 1 auxiliary output solid-state PNP/NPN |
| Product specific application | For hand protection |
| Minimum object diameter for detection | 30 mm |
| [Sn] nominal sensing distance | 0.3...20 m 8 m with Programming and Diagnostic Module (PDM) |
| Height protected | 1560 mm |
| Number of beams | 78 |

Complementary

| | |
|-------------------------------------|---|
| Detection system | Transmitter-receiver system |
| Response time | 53 ms slow 32 ms normal |
| Kit composition | Transmitter(S) Test rod(s) Receiver(S) Arc suppressor set(s) 2 sets of 2 brackets with fixings 1 user guide with certificate of conformity on CD-ROM |
| [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 | 285 mA (transmitter) 1.8 A with maximum load (receiver) 450 mA no-load (receiver) |
| Output current limits | <= 625 A for safety outputs OSSD 100 mA for auxiliary output |
| Output voltage | 24 V |
| Output circuit type | DC |
| Monitoring act of of relay MPCE/EDM | 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>Start button (NO or NC, 0 V or 24 V) accessible via programming and diagnostic module</p> <p>Sensing distance (short, long) accessible via programming and diagnostic module</p> <p>Response time (normal, slow) accessible via programming and diagnostic module</p> <p>Reduction of resolution 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>Muting 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>Monitored blanking 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>Floating blanking (FB) 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>Cascadable versions with up to 4 segments total, using segments XUS LDS accessible via programming and diagnostic module</p> <p>Blanking (ECS/B) accessible via programming and diagnostic module</p> <p>Auxiliary output (PNP, status signalling) accessible by cabling alone</p> <p>Auxiliary output (alarm or status signalling, PNP or NPN) accessible via programming and diagnostic module</p> <p>Automatic/Manual, manual first cycle accessible via programming and diagnostic module</p> <p>Automatic start accessible by cabling alone</p> <p>Alignment aid by display of each light beam broken accessible by cabling alone</p> |
| Marking | CE |
| Material | End caps : 20 % fibre glass impregnated nylon Casing : aluminium |
| Fixing mode | End brackets |
| Product weight | 7.5 kg |

Environment

| | |
|---------------------------------------|---|
| Standards | <p>ANSI B11:19-1990</p> <p>ANSI/RIA R15.06</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>Machinery directive 2006/42/EC</p> <p>EMC 2004/108/EC</p> <p>Work equipment directive 2009/104/EC</p> |
| Product certifications | <p>CSA</p> <p>TÜV</p> <p>UL</p> |
| Safety level | <p>Type 4 conforming to IEC 61496-1-2</p> <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> |
| 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 |

Offer Sustainability

| | |
|----------------------------------|---|
| Sustainable offer status | Not Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0806 - Schneider Electric declaration of conformity |
| Product environmental profile | Available |
| Product end of life instructions | Available Download End Of Life Manual |