

# XUSLDMQ6A0720

safety light curtain type 4 - XUSLDM - for finger protection - 720 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<br>2 safety outputs OSSD solid-state PNP (NO) (short-circuit protection) |
| Product specific application          | For finger protection                                                                                           |
| Minimum object diameter for detection | 14 mm                                                                                                           |
| [Sn] nominal sensing distance         | 3 M with Programming and Diagnostic Module (PDM)<br>0.3...7 m                                                   |
| Height protected                      | 720 mm                                                                                                          |
| Number of beams                       | 72                                                                                                              |

## Complementary

|                                     |                                                                                                                                                                     |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detection system                    | Transmitter-receiver system                                                                                                                                         |
| Response time                       | 32 ms normal<br>53 ms slow                                                                                                                                          |
| Kit composition                     | 1 user guide with certificate of conformity on CD-ROM<br>2 sets of 2 brackets with fixings<br>Arc suppressor set(s)<br>Receiver(S)<br>Test rod(s)<br>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<br>1.8 A with maximum load receiver<br>285 mA transmitter                                                                                   |
| Output current limits               | 100 mA for auxiliary output<br>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<br>4 LEDs receiver stop, run, interlock, ECS/B Blanking or FB (Floating Blanking)                                                    |
| Electrical connection               | 1 female connector M12 5 pins transmitter<br>1 female connector M12 8 pins receiver                                                                                 |

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|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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         | 3.76 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Environment

|                                       |                                                                                                                                                                                                                                                                                        |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | <p>ANSI B11:19-1990</p> <p>Machinery directive 2006/42/EC</p> <p>EMC 2004/108/EC</p> <p>OSHA 1910-217C</p> <p>Work equipment directive 2009/104/EC</p> <p>OSHA 1910-212</p> <p>EN/IEC 61496-1-2 for type 4 ESPE</p> <p>EN/IEC 61496-1</p> <p>EN/IEC 61496-2</p> <p>ANSI/RIA R15.06</p> |
| Product certifications                | TÜV[RETURN]UL[RETURN]CSA                                                                                                                                                                                                                                                               |
| 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 |
|----------|-----------|