

# XUSLBR5A0440

safety light curtain type 4 - XUSLB - for hand protection - 440 mm



## Main

|                                       |                                                                                                             |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Range of product                      | Telemecanique Safety light curtains XUSL                                                                    |
| Series name                           | Basic                                                                                                       |
| Product or component type             | Safety light curtain type 4                                                                                 |
| Device short name                     | XUSLB                                                                                                       |
| Output type                           | 1 auxiliary output solid-state PNP<br>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)<br>0.3...20 m                                              |
| Height protected                      | 440 mm                                                                                                      |
| Number of beams                       | 22                                                                                                          |

## Complementary

|                                |                                                                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detection system               | Transmitter-receiver system                                                                                                                                                 |
| Response time                  | 23 ms                                                                                                                                                                       |
| Kit composition                | 1 arc suppressor set(s)<br>1 receiver(s)<br>1 test rod(s)<br>1 transmitter(s)<br>1 user guide with certificate of conformity on CD-ROM<br>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            | 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                                                                                                                                                                          |
| Switching capacity in mA       | 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                                                                                         |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither TWSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Function available | <p>Alignment aid by display of each light beam broken accessible by cabling alone</p> <p>Auto/Manual accessible via programming and diagnostic module</p> <p>Automatic start accessible by cabling alone</p> <p>Auxiliary output (PNP, status signalling) 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>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>Monitoring of external switching devices (EDM: External Device Monitoring) 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>Sensing distance (short, long) 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         | 2.5 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Environment

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