

# XPSCM1144

## module XPS-CM - single-beam photo-electric sensors - 24 V DC



### Main

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product              | Telemecanique Safety light curtains XUSL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Product or component type     | Safety module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Safety module name            | XPSCM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Safety module application     | For monitoring of single beam photo-electric sensor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Function of module            | Built-in muting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Safety level                  | Can reach category 2 with the appropriate control system and correctly wired conforming to EN/ISO 13849-1<br>Can reach SILCL 1 with the appropriate control system and correctly wired conforming to EN/IEC 62061<br>Can reach PL = c with the appropriate control system and correctly wired conforming to EN/ISO 13849-1                                                                                                                                                                                                                                                                                                                                    |
| Safety reliability data       | MTTFd = 16.6 years conforming to EN/ISO 13849-1<br>DC = 95.5 % conforming to EN/ISO 13849-1<br>PFH = 3.12E-7 1/h conforming to EN/IEC 61508<br>PFHd = 3.12E-7 1/h conforming to EN/IEC 62061                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Number of inputs              | 2 (terminal(s) MA, MB) for muting function<br>4 (terminal(s) Z1, Z2, Z3, Z4) for sensor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Input voltage                 | 24 V DC for sensor<br>24 V DC (terminal(s) U+, U-) for muting function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Input compatibility           | XC limit switch for muting function<br>XU2M18PP340... for muting function<br>XU2S18PP340... (infrared) for sensor<br>XU9M18PP340... for muting function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Connections - terminals       | Captive screw clamp terminals, 1 x 0.14...1 x 2.5 mm <sup>2</sup> solid or flexible without cable end<br>Captive screw clamp terminals, 1 x 0.25...1 x 1.5 mm <sup>2</sup> flexible with cable end, with bezel<br>Captive screw clamp terminals, 1 x 0.25...1 x 2.5 mm <sup>2</sup> flexible with cable end, without bezel<br>Captive screw clamp terminals, 2 x 0.14...2 x 0.75 mm <sup>2</sup> solid or flexible without cable end<br>Captive screw clamp terminals, 2 x 0.25...2 x 1 mm <sup>2</sup> flexible with cable end, without bezel<br>Captive screw clamp terminals, 2 x 0.5...2 x 1.5 mm <sup>2</sup> flexible with cable end, with double bezel |
| Output type                   | Relay 2 NO (13-14, 23-24), volt-free                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Number of additional circuits | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| [Us] rated supply voltage     | 24 V DC - 20...20 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### Complementary

|                                     |                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------|
| Sensor power supply                 | U+, U-: 24 V DC                                                                                     |
| Maximum supply current for sensors  | 200 mA                                                                                              |
| Input current                       | 200 mA for muting function                                                                          |
| Synchronisation time between inputs | 3 s (+/- 20 %) for the activation of the MA/MB muting signal                                        |
| Muting maximum duration             | 60 s (- 10...30 %)                                                                                  |
| Maximum line resistance             | 10 Ohm for sensor power supply                                                                      |
| Breaking capacity                   | 180 VA holding AC-15 C300 relay output<br>1800 VA inrush AC-15 C300 relay output                    |
| Breaking capacity                   | 20 MA at 24 V for solid state output<br>1.5 A at 24 V (DC-13) time constant: 50 ms for relay output |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products 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 Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                                        |                                                                                                                                                                                                                                                              |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Associated fuse rating                 | 4 A gG for relay output conforming to DIN VDE 0660 part 200<br>4 A gG for relay output conforming to EN/IEC 60947-5-1<br>6 A fast blow for relay output conforming to DIN VDE 0660 part 200<br>6 A fast blow for relay output conforming to EN/IEC 60947-5-1 |
| Minimum output current                 | 10 mA for relay output                                                                                                                                                                                                                                       |
| Minimum output voltage                 | 17 V for relay output                                                                                                                                                                                                                                        |
| Maximum response time on input open    | 25 ms                                                                                                                                                                                                                                                        |
| Local signalling                       | 1 LED, function electronic internal fuse status<br>1 LED, function restarting<br>1 LED, function safety outputs closed<br>1 LED, function safety outputs open<br>1 incandescent lamp, function muting power consumption: 4...6.5 W                           |
| Output thermal current                 | 5.6 A per relay<br>11 A maximum                                                                                                                                                                                                                              |
| Maximum power consumption in W         | 15 W                                                                                                                                                                                                                                                         |
| Protection type                        | Electronic internal fuse                                                                                                                                                                                                                                     |
| [Ui] rated insulation voltage          | 300 V (pollution degree 2) conforming to DIN VDE 0110 parts 1 and 2<br>300 V (pollution degree 2) conforming to EN/IEC 60947-5-1                                                                                                                             |
| [Uimp] rated impulse withstand voltage | 4 KV overvoltage category III conforming to DIN VDE 0110 parts 1 and 2<br>4 kV overvoltage category III conforming to EN/IEC 60947-5-1                                                                                                                       |

## Environment

|                                       |                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------|
| Ambient air temperature for operation | -10...55 °C                                                                          |
| Ambient air temperature for storage   | -25...85 °C                                                                          |
| IP degree of protection               | IP20 (terminals) conforming to IEC 60529<br>IP40 (enclosure) conforming to IEC 60529 |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 400 g    |
| Package 1 Height             | 6.4 cm   |
| Package 1 width              | 11.6 cm  |
| Package 1 Length             | 16 cm    |
| Unit Type of Package 2       | S03      |
| Number of Units in Package 2 | 20       |
| Package 2 Weight             | 8.564 kg |
| Package 2 Height             | 30 cm    |
| Package 2 width              | 30 cm    |
| Package 2 Length             | 40 cm    |

## Offer Sustainability

|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                |
| REACH Regulation           |  <a href="#">REACH Declaration</a>                                                                |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                                                                                                                  |
| RoHS exemption information |  <a href="#">Yes</a>                                                                              |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>                                                           |
| Environmental Disclosure   |  <a href="#">Product Environmental Profile</a>                                                    |
| Circularity Profile        |  <a href="#">End Of Life Information</a>                                                          |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins                                                          |
| PVC free                   | Yes                                                                                                                                                                                  |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions

