Product data sheet
Characteristics

XPSCM1144
module XPS-CM - single-beam photo-electric sensors - 24 V DC



Commercial status
End of Commercialisation : DEC 12, 2025

⚠ End of Commercialisation

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 Can reach SILCL 1 with the appropriate control system and correctly wired conforming to EN/I Can reach PL = c with the appropriate control system and correctly wired conforming to EN/IS
Safety reliability data	MTTFd = 16.6 years conforming to EN/ISO 13849-1 DC = 95.5 % conforming to EN/ISO 13849-1 PFH = 3.12E-7 1/h conforming to EN/IEC 61508 PFHd = 3.12E-7 1/h conforming to EN/IEC 62061
Number of inputs	2 (terminal(s) MA, MB) for muting function 4 (terminal(s) Z1, Z2, Z3, Z4) for sensor
Input voltage	24 V DC for sensor 24 V DC (terminal(s) U+, U-) for muting function
Input compatibility	XC limit switch for muting function XU2M18PP340... for muting function XU2S18PP340... (infrared) for sensor XU9M18PP340... for muting function
Connections - terminals	Captive screw clamp terminals, 1 x 0.14...1 x 2.5 mm² solid or flexible without cable end Captive screw clamp terminals, 1 x 0.25...1 x 1.5 mm² flexible with cable end, with bezel Captive screw clamp terminals, 1 x 0.25...1 x 2.5 mm² flexible with cable end, without bezel Captive screw clamp terminals, 2 x 0.14...2 x 0.75 mm² solid or flexible without cable end Captive screw clamp terminals, 2 x 0.25...2 x 1 mm² flexible with cable end, without bezel Captive screw clamp terminals, 2 x 0.5...2 x 1.5 mm² 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 1800 VA inrush AC-15 C300 relay output

Breaking capacity	20 MA at 24 V for solid state output 1.5 A at 24 V (DC-13) time constant: 50 ms for relay output
Associated fuse rating	4 A gG for relay output conforming to DIN VDE 0660 part 200 4 A gG for relay output conforming to EN/IEC 60947-5-1 6 A fast blow for relay output conforming to DIN VDE 0660 part 200 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 1 LED, function restarting 1 LED, function safety outputs closed 1 LED, function safety outputs open 1 incandescent lamp, function muting power consumption: 4…6.5 W
Output thermal current	5.6 A per relay 11 A 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 2 300 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 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 IP40 (enclosure) conforming to IEC 60529

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.4 Cm
Package 1 Width	11.6 Cm
Package 1 Length	16.0 Cm
Package 1 Weight	400.0 G
Unit Type of Package 2	S03
Number of Units in Package 2	20
Package 2 Height	30.0 Cm
Package 2 Width	30.0 Cm
Package 2 Length	40.0 Cm
Package 2 Weight	8.564 Kg

Offer Sustainability

Recyclability potential, in %	10
Total lifecycle Carbon footprint	63 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	8.292451407091555
Carbon footprint of the manufacturing phase [A1 to A3]	8 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.05217637824763345
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.180085641303655
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	53.111639291335656
Carbon footprint of the use phase [B2, B3, B4, B6]	53 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	1.0153591771298267
Carbon footprint of the end-of-life phase [C1 to C4]	1 kg CO2 eq.
Total lifecycle Carbon footprint	63

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
SCIP Number	72074428-0ffd-4bdf-ae6e-88e966f0bef1
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wi
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Post commercialisation

XPSCM1144 may be replaced by any of the following products:



XPSMCMC10804

Safety controller, Modicon MCM, 8 inputs 4 outputs, monitors expansion modules, screw

Qty 1

Substitution date: |