Product data sheet

Specifications

Coded magnetic system, Telemecanique Safety switches XCS, XCSDM3, SIL 2, 2 PNP outputs, connector

XCSDM3791M12

⚠ Discontinued

⚠ **Discontinued on:** 31 May 2021

⚠ **End-of-service on:** 07 July 2021

Main

Range of product	Telemecanique Safety switches XCS
Product or component type	Coded magnetic system
Component name	XCSDM3
Design	Rectangular
Size	100 x 34 x 32 mm
Contacts type and composition	1 NO + 1 NO
Material	Plastic
Electrical connection	Connector
Connector type	M12
Local signalling	Green, orange and red 1 LED
Approach directions	9 directions
[Ue] rated operational voltage	24 V DC (- 20...10 %)
[Ui] rated insulation voltage	36 V DC

Complementary

Type of output stage	Solid-state, PNP
Safety outputs	2 outputs 1.5 A, 24 V, DC
[Sa] assured operating distance	10 mm
[Sar] assured tripping distance	20 mm
Minimum actuation speed	0.01 m/s
[Uimp] rated impulse withstand voltage	2.5 kV conforming to EN/IEC 60947-5-1
Protection type	Overload and short-circuit protection
Switching frequency	3 Hz
Time delay	100 ms activation
Discordance time	2 s
[HFT] Hardware Fault Tolerance	1
Tightening torque	< 1.8 N.m

Installed device	32 maximum with 2 m long cable
Marking	CE
Safety level	Can reach category 3 correctly wired conforming to EN/ISO 13849-1 Can reach PL = d correctly wired conforming to EN/ISO 13849-1 Can reach SIL 2 correctly wired conforming to EN/IEC 61508
Safety reliability data	HFT = 1 MTTFd = 182 years PFD = 1.15E-5 PFH = 3.94E-9 SF = 92.5 %
Enclosure material	Thermoplastic PBT
Depth	32 mm
Height	100 mm
Width	34 mm
Net weight	0.215 kg

Environment

Standards	EN/IEC 60947-5-1 EN 13849-1 ISO 14119 EN/IEC 60947-5-2 EN/IEC 60947-5-3 EN/IEC 62061 IEC 61508
Product certifications	CSA TÜV UL
Ambient air temperature for operation	-25…70 °C
Ambient air temperature for storage	-40…85 °C
Vibration resistance	10 gn (f= 10…500 Hz) conforming to IEC 60068-2-6
Shock resistance	30 gn for 11 ms conforming to IEC 60068-2-27
Maximum sensitivity to magnetic fields	0.5 mT
Electrical shock protection class	Class III conforming to EN/IEC 61140
IP degree of protection	IP67 conforming to IEC 60529

Offer Sustainability

REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
California proposition 65	WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Contractual warranty

Warranty	18 months

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Recommended replacement(s)

XCSDM3791M12 is replaced by the following product range:

Preventa XCS

Safety switches

Products: 562