

# Product data sheet

Specifications



## Safety switch, Telemecanique Safety switches XCS, metal key operated XCSA, NC + 2 NO slow break, ATEX/IECEX

XCSA502EX

### Main

Range of product	Telemecanique Safety switches XCS
Product or component type	Safety switch
Device short name	XCSA
Material	Metal
Head type	Key operated turret head
Cable entry number	1 tapped entry for M20 x 1.5 cable gland (included) 7...13 mm
Electrical connection	Terminal
Clamping connection capacity	1 x 0.5...2 x 1.5 mm <sup>2</sup> with or without cable end
Number of poles	3
Contacts type and composition	1 NC + 2 NO
Contact operation	Slow-break, break before make
Positive opening	With NC contact
Locking options description	Without locking of actuator

### Complementary

Local signalling	Without
Mechanical durability	1000000 cycles
Minimum actuation speed	0.01 m/s
Maximum actuation speed	0.5 m/s
Contact code designation	A300, AC-15 (Ue = 120 V, Ie = 6 A) conforming to EN/IEC 60947-5-1 A300, AC-15 (Ue = 240 V, Ie = 3 A) conforming to EN/IEC 60947-5-1 Q300, DC-13 (Ue = 125 V, Ie = 0.55 A) conforming to EN/IEC 60947-5-1 Q300, DC-13 (Ue = 250 V, Ie = 0.27 A) conforming to EN/IEC 60947-5-1
[Ithe] conventional enclosed thermal current	10 A
[Ui] rated insulation voltage	300 V conforming to UL 508 500 V conforming to EN/IEC 60947-1 300 V conforming to CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-5-1
Short-circuit protection	10 A cartridge fuse type gG (gl)
Minimum actuator force for extraction	20 N

Maximum operating rate	10 cyc/mn for maximum durability
Body material	Zamak
Head material	Zamak
CAD overall width	40 mm
CAD overall height	114 mm
CAD overall depth	44 mm
Net weight	0.44 kg

## Environment

Safety level	Can reach category 4 with the appropriate monitoring system and correctly wired conforming to EN/ISO 13849-1 Can reach PL = e with the appropriate monitoring system and correctly wired conforming to EN/ISO 13849-1 Can reach SIL 3 with the appropriate monitoring system and correctly wired conforming to IEC 61508
Safety reliability data	B10d = 5000000 value given for a life time of 20 years limited by mechanical or contact wear
Protective treatment	TC
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...70 °C
Vibration resistance	5 gn (f= 10...500 Hz) conforming to IEC 60068-2-6
Shock resistance	10 gn for 11 ms conforming to IEC 60068-2-27
Electrical shock protection class	Class I conforming to EN/IEC 60536
IP degree of protection	IP67 conforming to EN/IEC 60529 and EN/IEC 60947-5-1
Marking	II2 D-Ex tb IIIC T85°C Db IP67
Dust zone	Zone 21 - 22
Product certifications	IEC-Ex INE 17.0020X INERIS 04ATEX0014X
Standards	EN/IEC 60079-31 EN/IEC 60079-0
Directives	2014/34/EU - ATEX directive

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.5 cm
Package 1 Width	6.5 cm
Package 1 Length	15.8 cm
Package 1 Weight	540.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	12
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	6.789 kg

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>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Contractual warranty

Warranty	18 months
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Recommended replacement(s)