

# Product data sheet

Specifications



## Safety switch, Telemecanique Safety switches XCS, metal XCSA, 1 NC + 2 NO, slow break, 1 entry tapped 1/2" NPT

XCSA503

### Main

Range of product	Telemecanique Safety switches XCS
Product or component type	Safety switch
Component name	XCSA
Design	Industrial
Material	Metal
Head type	Key operated turret head
Contacts type and composition	1 NC + 2 NO
Contact operation	Slow-break, break before make
Cable entry	1 entry tapped for 1/2" NPT
Electrical connection	Terminal, clamping capacity: 1 x 0.5...2 x 1.5 mm <sup>2</sup> with or without cable end
Number of poles	3
Locking options description	Without locking of actuator
Local signalling	Without

### Complementary

Positive opening	With NC contact
Mechanical durability	1000000 cycles
Minimum actuation speed	0.01 m/s
Maximum actuation speed	0.5 m/s
[Ie] rated operational current	6 A at 120 V, AC-15, A300 conforming to EN/IEC 60947-5-1 3 A at 240 V, AC-15, A300 conforming to EN/IEC 60947-5-1 0.55 A at 125 V, DC-13, Q300 conforming to EN/IEC 60947-5-1 0.27 A at 250 V, DC-13, Q300 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

<b>Maximum operating rate</b>	10 cyc/mn for maximum durability
<b>Safety level</b>	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 EN/IEC 61508
<b>Safety reliability data</b>	B10d = 5000000 value given for a life time of 20 years limited by mechanical or contact wear
<b>Body material</b>	Zamak
<b>Head material</b>	Zamak
<b>Depth</b>	44 mm
<b>Height</b>	114 mm
<b>Width</b>	40 mm
<b>Net weight</b>	0.44 kg

## Environment

<b>Standards</b>	EN/ISO 12100 CSA C22.2 No 14 EN/IEC 60947-5-1 UL 508 EN 1088/ISO 14119 EN/IEC 60204-1
<b>Product certifications</b>	UL CSA
<b>Protective treatment</b>	TC
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>Vibration resistance</b>	5 gn (f= 10...500 Hz) conforming to IEC 60068-2-6
<b>Shock resistance</b>	10 gn for 11 ms conforming to IEC 60068-2-27
<b>Electrical shock protection class</b>	Class I conforming to EN/IEC 61140
<b>IP degree of protection</b>	IP67 conforming to EN/IEC 60529 and EN/IEC 60947-5-1

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.0 cm
<b>Package 1 Width</b>	12.6 cm
<b>Package 1 Length</b>	6.6 cm
<b>Package 1 Weight</b>	500.0 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	20
<b>Package 2 Height</b>	15.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	10.268 kg

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
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<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope)
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	No need of specific recycling operations
<b>California proposition 65</b>	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

<b>Warranty</b>	18 months
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## Recommended replacement(s)