

# Product data sheet

Specifications



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

XCSB502EX

### Main

Range of product	Telemecanique Safety switches XCS
Product or component type	Safety switch
Device short name	XCSB
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	With locking of actuator, unlocking by push-button

### Complementary

Local signalling	Without
Mechanical durability	600000 cycles
Minimum actuation speed	0.01 m/s
Maximum actuation speed	0.5 m/s
Contact code designation	A300, AC-15 (U <sub>e</sub> = 120 V, I <sub>e</sub> = 6 A) conforming to EN/IEC 60947-5-1 A300, AC-15 (U <sub>e</sub> = 240 V, I <sub>e</sub> = 3 A) conforming to EN/IEC 60947-5-1 Q300, DC-13 (U <sub>e</sub> = 125 V, I <sub>e</sub> = 0.55 A) conforming to EN/IEC 60947-5-1 Q300, DC-13 (U <sub>e</sub> = 250 V, I <sub>e</sub> = 0.27 A) conforming to EN/IEC 60947-5-1
[I <sub>th</sub> e] conventional enclosed thermal current	10 A
[U <sub>i</sub> ] 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
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV conforming to EN/IEC 60947-5-1
Short-circuit protection	10 A cartridge fuse type gG (gl)
Actuator forcible withdrawal r <sub>tc</sub>	1500 N

<b>Minimum actuator force for extraction</b>	20 N
<b>Maximum operating rate</b>	10 cyc/mn for maximum durability
<b>Body material</b>	Zamak
<b>Head material</b>	Zamak
<b>CAD overall width</b>	52 mm
<b>CAD overall height</b>	114 mm
<b>CAD overall depth</b>	44 mm
<b>Product weight</b>	0.475 kg

## Environment

<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 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>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 60536
<b>IP degree of protection</b>	IP67 conforming to EN/IEC 60529 and EN/IEC 60947-5-1
<b>Marking</b>	II2 D-Ex tb IIIC T85°C Db IP67
<b>Dust zone</b>	Zone 21 - 22
<b>Product certifications</b>	IEC-Ex INE 17.0020X INERIS 04ATEX0014X
<b>Standards</b>	EN/IEC 60079-31 EN/IEC 60079-0
<b>Directives</b>	2014/34/EU - ATEX directive

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	8.8 cm
<b>Package 1 Width</b>	8.5 cm
<b>Package 1 Length</b>	15.2 cm
<b>Package 1 Weight</b>	508.0 g

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes

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<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<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>

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## Contractual warranty

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**Warranty** 18 months

## Recommended replacement(s)