

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 mm² 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 IEC 60947-5-1 3 A at 240 V, AC-15, A300 conforming to IEC 60947-5-1 0.55 A at 125 V, DC-13, Q300 conforming to IEC 60947-5-1 0.27 A at 250 V, DC-13, Q300 conforming to 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 IEC 60947-1 300 V conforming to CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	6 kV conforming to 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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Safety level	Can reach category 4 with the appropriate monitoring system and correctly wired conforming to ISO 13849-1 Can reach PL = e with the appropriate monitoring system and correctly wired conforming to 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
body material	Zamak
Head material	Zamak
Depth	44 mm
Height	114 mm
Width	40 mm
Net weight	0.44 kg

Environment

Standards	ISO 12100 CSA C22.2 No 14 IEC 60947-5-1 UL 508 EN 1088/ISO 14119 IEC 60204-1
product certifications	UL CSA
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 IEC 61140
IP degree of protection	IP67 conforming to EN/IEC 60529 and EN/IEC 60947-5-1

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.000 cm
Package 1 Width	6.600 cm
Package 1 Length	12.600 cm
Package 1 Weight	500.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	10.268 kg

Contractual warranty

Warranty

18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



RoHS/REACH

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information Yes

Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Circularity Profile	No need of specific recycling operations
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 Diisodecyl 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

Image of product / Alternate images

Alternative





Telemecanique
XCS
ENIEC 60947-5-1
UR : 500V Uimp : 6 kV
AC15 240V 3A
IP67
MS 1247 12
10078 1100
A 100-0100
Enc. Type 4, 4X and 12
Made in France