

Safety detection solutions

Safety switches

Metal, turret head (1), types XCS A, B, C and E

Cable entries tapped for Pg 13.5 (n° 13) cable gland

Type of switch	Without locking of key			With locking of key, manual unlocking (2)		
LED indication on opening of N/C contacts	Without	1 orange LED ≈ 24/48 V	1 orange LED ≈ 110/240 V	Without	1 orange LED ≈ 24/48 V	1 orange LED ≈ 110/240 V

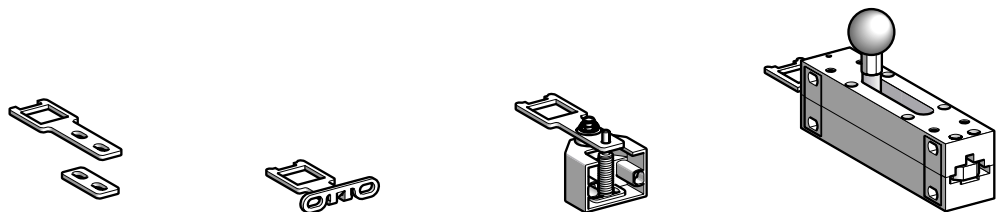
References of switches without operating key (⊖ N/C contact with positive opening operation)

3-pole N/C + N/O + N/O (2 N/O staggered) slow break (3)		XCS A501 ⊖	XCS A511 ⊖	XCS A521 ⊖	XCS B501 ⊖	XCS B511 ⊖	XCS B521 ⊖	XCS C501 ⊖	XCS C511 ⊖	XCS C521 ⊖
3-pole N/C + N/C + N/O (N/O staggered) slow break (3)		XCS A701 ⊖	XCS A711 ⊖	XCS A721 ⊖	XCS B701 ⊖	XCS B711 ⊖	XCS B721 ⊖	XCS C701 ⊖	XCS C711 ⊖	XCS C721 ⊖
3-pole N/C + N/C + N/C slow break (3)		XCS A801 ⊖	-	-	XCS B801 ⊖	-	-	XCS C801 ⊖	-	-
Weight (kg)	0.440	0.440	0.440	0.475	0.475	0.475	0.480	0.480	0.480	0.480

Complementary characteristics not shown under general characteristics (page 32921/3)

Actuation speed	Maximum: 0.5 m/s, minimum: 0.01 m/s
Resistance to forcible key withdrawal	XCS B and XCS C: 1500 N; XCS E: 2000 N
Mechanical durability	XCS A and XCS E: > 1 million operating cycles XCS B and XCS C: 0.6 million operating cycles
Maximum operating rate	For maximum durability: 600 operating cycles per hour
Minimum force for extraction of key	≥ 20 N
Cable entry	XCS A, XCS B, XCS C: 1 cable entry. XCS E: 2 cable entries. Entries tapped for n° 13 cable gland conforming to NF C 68-300 (DIN Pg 13.5). Clamping capacity 9 to 12 mm.
Materials	Body : zamak. Head : zamak. Safety screws : 5-lobe torque. Protective plate : steel.

References of operating keys



Description	Straight key	Wide key	Pivoting key	Latch for sliding doors
For limit switches XCS A, B, C, E	XCS Z01	XCS Z02	XCS Z03	XCS Z05
Weight (kg)	0.020	0.020	0.095	0.600

(1) Adjustable throughout 360° in 90° steps. Blanking plug for operating head slot included with switch.

(2) Unlocking by pushbutton for XCS B●●● and by key operated lock for XCS C●●●.

(3) Schematic diagrams shown represent the contact states whilst the operating key is inserted in the head of the switch.

Dimensions:

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pages 32923/3 and

Connections:

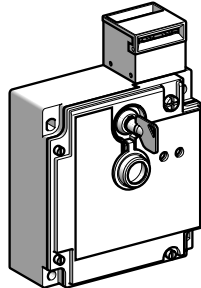
Safety detection solutions

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Cable entries tapped for Pg 13.5 (n° 13) cable gland

Type of switch	With interlocking, locking by electromagnet
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Type of interlocking	Locking on de-energisation and unlocking on energisation of electromagnet (2). To order a limit switch with locking on energisation and unlocking on de-energisation of the electromagnet, replace the 2 nd number by 5 in the references shown below. Example: XCS E5311 becomes XCS E5511 .			
LED indication	Orange LED: "guard open" signalling. Green LED: "guard closed and locked" signalling.			
Supply voltage of electromagnet	~ or = 24 V (50/60 Hz on ~)	~ or = 48 V (50/60 Hz on ~)	~ or = 110/120 V (3) (50/60 Hz on ~)	~ or = 220/240 V (3) (50/60 Hz on ~)
Type of contact on electromagnet	N/C + N/O 2 N/C	N/C + N/O 2 N/C	N/C + N/O 2 N/C	N/C + N/O 2 N/C

References of switches without operating key (⊕ N/C contact with positive opening operation)

3-pole N/C + N/O + N/O (2 N/O staggered) slow break (4)		XCS E5311 ⊕	–	XCS E5321 ⊕	–	XCS E5331 ⊕	–	XCS E5341 ⊕	–
3-pole N/C + N/C + N/O (N/O staggered) slow break (4)		XCS E7311 ⊕	XCS E73117 ⊕	XCS E7321 ⊕	XCS E73217 ⊕	XCS E7331 ⊕	XCS E73317 ⊕	XCS E7341 ⊕	XCS E73417 ⊕
3-pole N/C + N/C + N/C slow break (4)		XCS E8311 ⊕ (5)	XCS E83117 ⊕ (5)	XCS E8321 ⊕ (5)	–	XCS E8331 ⊕ (5)	–	XCS E8341 ⊕ (5)	–
Weight (kg)	1.140		1.140		1.140		1.140		

Electromagnet characteristics

Load factor	100 %			
Rated operational voltage	~ or = 24 V	~ or = 48 V	~ or = 110/120 V	~ or = 220/240 V
Voltage limits	- 20 % + 10 % of the rated operational voltage (including ripple on =) conforming to IEC/EN 60947-1			
Service life	20,000 hours			
Consumption	Inrush: 10 VA. Sealed: 10 VA			

LED indicator characteristics

Rated insulation voltage	50 V conforming to IEC/EN 60947-1	250 V conforming to IEC/EN 60947-1
Current consumption	7 mA	7 mA
Rated operational voltage	~ or = 24/48 V	~ 110/240 V
Voltage limits	~ or = 20...52 V (including ripple on =)	~ 95...264 V (including ripple on =)
Service life	100,000 hours	100,000 hours
Protection against overvoltages	Yes	Yes

(1) Adjustable throughout 360° in 90° steps. Blanking plug for operating head slot included with switch.

(2) A key operated lock enables the forced opening of the interlocking device, allowing key withdrawal and subsequent opening of the N/C safety contacts.

(3) For use on = 110/120 V or = 220/240 V, remove the LED indicator module.

(4) Schematic diagrams shown represent the contact states whilst the operating key is inserted in the head of the switch.

(5) Units supplied with a single green LED.