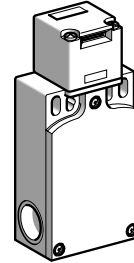
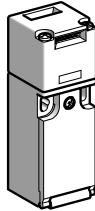


Safety detection solutions

Safety switches
Plastic, double insulated, turret head (1), types XCS PA, XCS TA and XCS TE
Cable entries tapped for Pg 11 (n° 11) cable gland

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

2-pole N/C + N/O break before make slow break (2)		XCS PA591 ⊖	—
2-pole N/O + N/C make before break slow break (2)		XCS PA691 ⊖	—
2-pole N/C + N/C slow break (2)		XCS PA791 ⊖	—
3-pole N/C + N/O + N/O (2 N/O staggered) slow break (2)		—	XCS TA591 ⊖
3-pole N/C + N/C + N/O (N/O staggered) slow break (2)		—	XCS TA791 ⊖
3-pole N/C + N/C + N/C slow break (2)		—	XCS TA891 ⊖
Weight (kg)	0.110		0.160

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 PA, XCS TA : 2 N (50 N using operating keys XCS Z12 or XCS Z13 together with guard retaining device XCS Z21) XCS TE : 500 N
Mechanical durability	XCS PA, XCS TA : > 1 million operating cycles XCS TE : 1 million operating cycles
Maximum operating rate	For maximum durability : 600 operating cycles per hour
Minimum force for extraction of key	≥ 15 N
Cable entry	XCS PA, XCS TE : 1 entry tapped for n° 11 cable gland conforming to NF C 68-300 (DIN Pg 11). XCS TA : 2 entries tapped for n° 11 cable gland conforming to NF C 68-300 (DIN Pg 11). Clamping capacity 7 to 10 mm.
Materials	Body : zamak. Head : zamak. Safety screws : 5-lobe torque. Protective plate : steel

References of accessories

	Description	For use with safety switches	Unit reference	Weight kg
 XCS Z91	Set of 10 blanking plugs for operating head slot	XCS PA, XCS TA, XCS TE	XCS Z28	0.050
	Tool for forced opening of interlocking device (Sold in lots of 10)	XCS TE	XCS Z100	0.050
	Padlocking device to prevent insertion of operating key, for up to 3 padlocks (padlocks not supplied)	XCS PA, XCS TA, XCS TE	XCS Z91	0.053

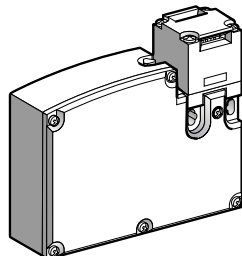
(1) Adjustable throughout 360° in 90° steps. Blanking plug for operating head slot included with switch.

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

Safety detection solutions

Safety switches
Plastic, double insulated, turret head (1), types XCS PA,
XCS TA and XCS TE
Cable entries tapped for Pg 11 (n° 11) cable gland

Type of switch With interlocking, locking by electromagnet



Type of interlocking **Locking on de-energisation and unlocking on energisation of electromagnet (2).**
To order a safety switch with locking on energisation and unlocking on de-energisation of the electromagnet, replace the 2nd number by **5** in the references shown below.
Example : **XCS TE5311** becomes **XCS TE5511**.

Supply voltage of electromagnet \sim or \equiv 24 V (50/60 Hz on \sim) \sim or \equiv 120 V (50/60 Hz on \sim) \sim or \equiv 230 V (50/60 Hz on \sim)

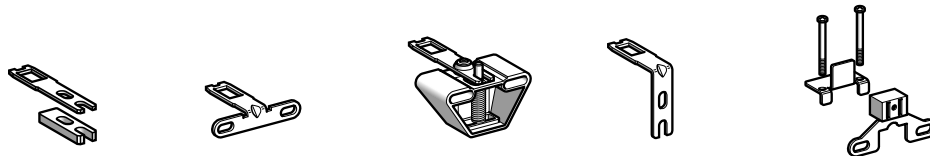
References of switches without operating key (⊖ N/C contact with positive opening operation)

2-pole N/C + N/O break before make slow break (3)		XCS TE5311 ⊖	XCS TE5331 ⊖	XCS TE5341 ⊖
2-pole N/O + N/C make before break slow break (3)		XCS TE6311 ⊖	XCS TE6331 ⊖	XCS TE6341 ⊖
2-pole N/C + N/C slow break (3)		XCS TE7311 ⊖	XCS TE7331 ⊖	XCS TE7341 ⊖
Weight (kg)		0.360	0.360	0.360

Electromagnet characteristics

Load factor	100 %		
Rated operational voltage	\sim or \equiv 24 V	\sim or \equiv 120 V	\sim or \equiv 230 V
Voltage limits	- 20 % + 10 % of the rated operational voltage (including ripple on \equiv) conforming to EN/IEC 60947-1		
Service life	20,000 hours		
Consumption	10 VA max.		

References of operating keys and guard retaining device



Description	Straight key	Key with wide fixing (5)		Pivoting key	Right-angled key	Guard retaining device (4)
For safety switches XCS PA, TA, TE	XCS Z11	XCS Z12	XCS Z15	XCS Z13	XCS Z14	XCS Z21
Weight (kg)	0.015	0.015	0.012	0.085	0.025	0.080

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

(2) A special tool included with the safety switch enables forced opening of the interlocking device, allowing key withdrawal and subsequent opening of the N/C safety contacts.

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

(4) Only for use with XCS PA and XCS TA safety switches used in conjunction with operating keys XCS Z12, XCS Z13 and XCS Z15.

(5) 2 key lengths, XCS Z12: L = 40 mm, XCS Z15: L = 29 mm.