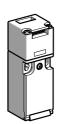
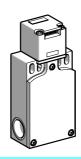
Limit switches

For safety solutions using Preventa Plastic, turret head (1), types XCS-PA, XCS-TA and XCS-TE 1 ou 2 cable entries M16 x 1.5 (2)

Type of switch

Without locking of operating key





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)	22 21	XCS-PA592	Θ	_
2-pole N/O + N/C make before break slow break (3)	22 41 7 - 13	XCS-PA692	Θ	_
2-pole N/C + N/C slow break (3)	22 22 14	XCS-PA792	Θ	-
3-pole N/C + N/O + N/O (2 N/O staggered) slow break (3)	22 24 4 7 13 34 7 33	_		XCS-TA592 ⊖
3-pole N/C + N/C + N/O (N/O staggered) slow break (3)	22 21 32 31 14 7 13	-		XCS-TA792
3-pole N/C + N/C + N/C slow break (3)	12 11 22 21 32 31	-		XCS-TA892 →
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: 10 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 positive opening	15 N				
Cable entry	XCS-PA, XCS-TE: 1 entry tapped M16 x 1.5 for ISO cable gland.				
	XCS-TA: 2 entries tapped M16 x 1.5 for ISO cable gland.				
	Clamping capacity 7 to 10 mm.				

References of accessories



XCS-Z91

Description	For use with limit switches	Unit reference	Weight kg
Blanking plugs for operating head slot (Sold in lots of 10)	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) For cable entries tapped for n° 11 (Pg 11) cable gland, replace the last number in the reference by 1 (see page 32934/2). Example: XCS-PA592 becomes XCS-PA591.

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

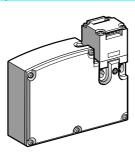
Dimensions: 32935/3

Limit switches

For safety solutions using Preventa Plastic, turret head (1), types XCS-PA, XCS-TA and XCS-TE 1 ou 2 cable entries M16 x 1.5 (2)

Type of switch

With interlocking, locking by electromagnet



Type of interlocking	To order a limit switch with locking on the 2 nd number by 5 in the references	Locking on de-energisation and unlocking on energisation of electromagnet (3). 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-TE5312 becomes XCS-TE5512.					
Supply voltage of electromagnet	\sim or $-$ 24 V (50/60 Hz on \sim)	\sim or — 120 V (50/60 Hz on \sim)	\sim or $-230 \text{ V} (50/60 \text{ Hz on } \sim)$				

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

2-pole N/C + N/O break before make slow break (4)	14 13	XCS-TE5312 ⊖	XCS-TE5332	XCS-TE5342 ⊖
2-pole N/O + N/C make before break slow break (4)	22 44 13 13	XCS-TE6312	XCS-TE6332 ⊖	XCS-TE6342 ⊖
2-pole N/C + N/C slow break (4)	22 22 14	XCS-TE7312	XCS-TE7332	XCS-TE7342 ⊖
Weight (kg)		0.360	0.360	0.360

Electromagnet characteristics

Load factor	100 %					
Rated operational voltage	~ or <u>—</u> 24 V					
Voltage limits	- 20 %, + 10 % of the rated operational voltage (including ripple on) conforming to IEC 947-1					
Service life	20,000 hours					
Consumption	10 VA max.					

References of operating keys and guard retaining device











Description	Straight key	Key with w	ride fixing	Pivoting key	Right-angled key	Guard retaining device (6)
For limit 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.

Example: XCS-TE5312 becomes XCS-TE5311.

Dimensions: 32935/3 page 32935/4

⁽²⁾ For cable entries tapped for n° 11 (Pg 11) cable gland, replace the last number in the reference by 1 (see page 32934/3).

⁽³⁾ A special tool included with the limit switch enables forced opening of the interlocking device, allowing key withdrawal and subsequent opening of the N/C safety contacts.

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

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

⁽⁶⁾ Only for use with XCS-PA and XCS-TA limit switches used in conjunction with operating keys XCS-Z12, XCS-Z13 and XCS-Z15.