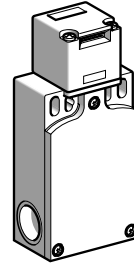
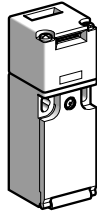


Type of switch Without locking of operating key



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

2-pole N/C + N/O break before make slow break (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 : 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 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.

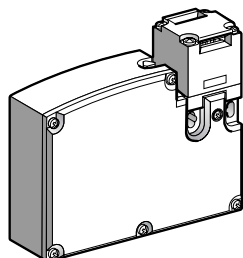
References of accessories

	Description	For use with limit 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.

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 limit 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 ~ or = 24 V (50/60 Hz on ~) ~ or = 120 V (50/60 Hz on ~) ~ or = 230 V (50/60 Hz on ~)

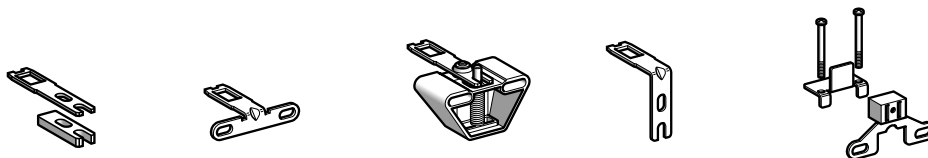
References of switches without operating key (⊖ N/C contact with positive opening operation)

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	0.360

Electromagnet characteristics

Load factor	100 %
Rated operational voltage	~ or = 24 V ~ or = 120 V ~ or = 230 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 wide fixing (5)	Pivoting key	Right-angled key	Guard retaining device (4)
For limit switches XCS-PA, TA, TE	XCS-Z11	XCS-Z12	XCS-Z15	XCS-Z13	XCS-Z14
Weight (kg)	0.015	0.015	0.012	0.085	0.025
					XCS-Z21

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

(2) 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.

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

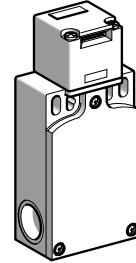
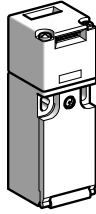
(4) Only for use with XCS-PA and XCS-TA limit switches used in conjunction with operating keys XCS-Z12, XCS-Z13 and XCS-Z15.

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

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)		XCS-PA592 ⊕	-
2-pole N/O + N/C make before break slow break (3)		XCS-PA692 ⊕	-
2-pole N/C + N/C slow break (3)		XCS-PA792 ⊕	-
3-pole N/C + N/O + N/O (2 N/O staggered) slow break (3)		-	XCS-TA592 ⊕
3-pole N/C + N/C + N/O (N/O staggered) slow break (3)		-	XCS-TA792 ⊕
3-pole N/C + N/C + N/C slow break (3)		-	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**.

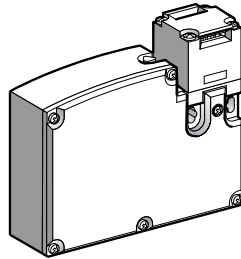
(3) Schematic diagrams shown represent the contact states whilst the operating key is inserted in the head of the switch.

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

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 2nd number by 5 in the references shown below.
Example : **XCS-TE5312** becomes **XCS-TE5512**.

Supply voltage of electromagnet

~ or ≡ 24 V (50/60 Hz on ~)

~ or ≡ 120 V (50/60 Hz on ~)

~ or ≡ 230 V (50/60 Hz on ~)

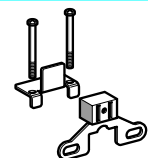
References of switches without operating key (⊖ N/C contact with positive opening operation)

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

Electromagnet characteristics

Load factor	100 %		
Rated operational voltage	~ or ≡ 24 V	~ or ≡ 120 V	~ or ≡ 230 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 wide fixing (5)		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.

(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).

Example: XCS-TE5312 becomes **XCS-TE5311**.

(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.

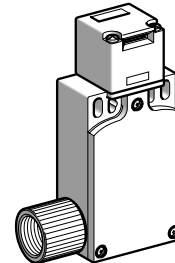
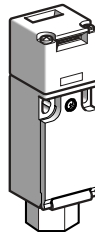
(4) Schematic diagrams shown represent the contact states whilst the operating key is inserted in the head of the switch.

(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.

Dimensions: 32935/3 page 32935/4
pages 32935/2 and Schemes:

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 (2)		XCS-PA593 ⊖	—
2-pole N/O + N/C make before break slow break (2)		XCS-PA693 ⊖	—
2-pole N/C + N/C slow break (2)		XCS-PA793 ⊖	—
3-pole N/C + N/O + N/O (2 N/O staggered) slow break (2)		—	XCS-TA593 ⊖
3-pole N/C + N/C + N/O (N/O staggered) slow break (2)		—	XCS-TA793 ⊖
3-pole N/C + N/C + N/C slow break (2)		—	XCS-TA893 ⊖
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 : 1 entry tapped for 1/2" NPT (USAS B2-1) conduit. XCS-TE : 1 entry tapped 11 mm and fitted with metal adaptor DE9-RA1012 for 1/2" NPT (USAS B2-1) conduit. XCS-TA : 2 entries tapped 11 mm, 1 fitted with metal adaptor DE9-RA1012 for 1/2" NPT (USAS B2-1) conduit. Second entry fitted with blanking plug.

References of accessories

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

XCS-Z91

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

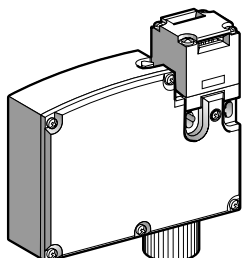
(2) Schematic diagrams shown represent the contact states whilst the operating key is inserted in the head of the switch.

Dimensions:
pages 32935/2 and

32935/3
Schemes:

page 32935/4

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-TE5313 becomes XCS-TE5513 .	
Supply voltage of electromagnet	~ or = 24 V (50/60 Hz on ~)	~ or = 120 V (50/60 Hz on ~)

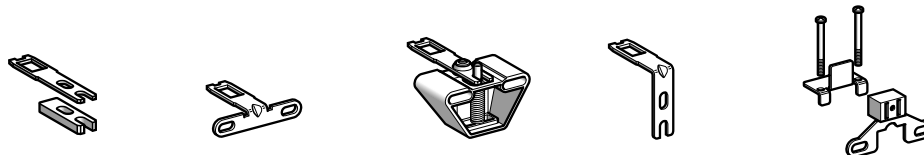
References of switches without operating key (⊖ N/C contact with positive opening operation)

2-pole N/C + N/O break before make slow break (3)		XCS-TE5313 ⊖	XCS-TE5333 ⊖
2-pole N/O + N/C make before break slow break (3)		XCS-TE6313 ⊖	-
2-pole N/C + N/C slow break (3)		XCS-TE7313 ⊖	XCS-TE7333 ⊖
Weight (kg)	0.360	0.360	

Electromagnet characteristics

Load factor	100 %
Rated operational voltage	~ or = 24 V ~ or = 120 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 wide fixing (5)		Pivoting key	Right-angled key	Guard retaining device (4)
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.

(2) 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.

(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 limit 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.

Dimensions: 32935/3 page 32935/4
pages 32935/2 and Schemes: