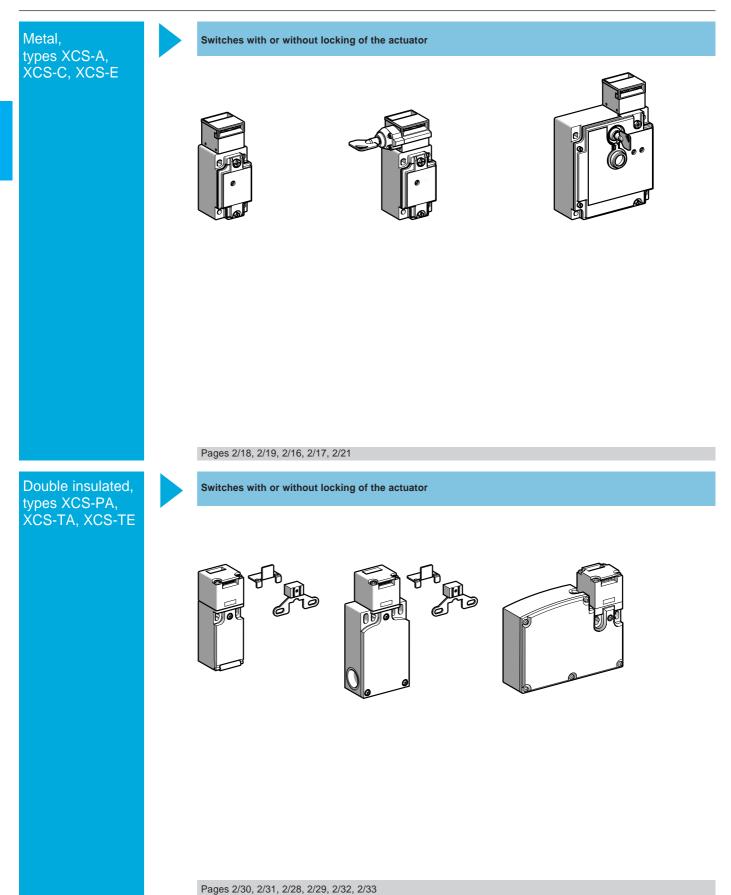
Guard switches

Metal, turret head, types XCS-A, XCS-C and XCS-E Double insulated, turret head, types XCS-PA, XCS-TA and XCS-TE

Presentation



Guard switches Metal, turret head, types XCS-A, XCS-C and XCS-E Double insulated, turret head, types XCS-PA, XCS-TA and XCS-TE

General characteristics

Environment

Limit switch type		XCS-A, XCS-C, XCS-E (metal case)	XCS-PA, XCS-TA, XCS-TE (double insulated case)		
Conforming	Products	IEC 947-5-1, EN 60 947-5-1, UL 508, CSA C2	2-2 n° 14, JIS C4520		
to standards	Machine assemblies	IEC 204-1, EN 60 204-1, EN 1088, EN 292			
Product certifie	cations	UL, CSA, BG	UL, CSA, BG (pending)		
Protective treatment		Standard version : "TC"			
Ambient air temperature		Operation : - 25+ 70 °C (- 25+ 40 °C for XCS-E and - 25+ 60 °C for XCS-TE) Storage : - 40+ 70 °C			
Vibration resis	tance	5 gn (10500 Hz) conforming to IEC 68-2-6			
Shock resistan	ce	10 gn (duration 11 ms) conforming to IEC 68-2-27			
Electric shock protection		Class I conforming to IEC 536	Class 2 conforming to IEC 536		
Degree of protection		IP 67 conforming to IEC 529 (1) and IEC 947-5-1			
Cable entry (Country specific references)		1 entry (XCS-A and XCS-E) or 2 entries (XCS-E) tapped for Pg 13.5 (n° 13) cable gland, tapped M20 or tapped 1/2" NPT	1 entry (XCS-PA and XCS-TE) or 2 entries (XCS-TA) tapped for Pg 11 (n° 11) cable gland, tapped M16 or tapped 1/2" NPT (with adaptor) for XCS-TA and XCS-TE		

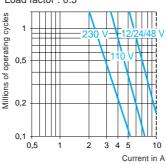
Contact block characteristics

Rated operational characteristics	XCS-A, XCS-C, XCS-PA, XCS-TA : ~ AC-15, A300 : Ue = 240 V, Ie = 3 A or Ue = 120 V, Ie = 6 A XCS-E, XCS-TE : ~ AC-15, B300 : Ue = 240 V, Ie = 1.5 A or Ue = 120 V, Ie = 3 A All models : DC-13, Q300 : Ue = 250 V, Ie = 0.27 A or Ue = 125 V, Ie = 0.54 A conforming to IEC 947-5-1, EN 60 947-5-1
Rated thermal current in enclosure	XCS-A, XCS-C, XCS-PA, XCS-TA : Ithe = 10 A XCS-E, XCS-TE : Ithe = 6 A
Rated insulation voltage	Ui = 500 V conforming to IEC 947-5-1 Ui = 300 V conforming to UL 508, CSA C22-2 n°14
Rated impulse withstand voltage	XCS-A, XCS-C, XCS-PA, XCS-TA : Uimp = 6 kV conforming to IEC 947-5-1 XCS-E, XCS-TE : Uimp = 4 kV conforming to IEC 947-5-1
Positive operation	N/C contact with positive opening operation conforming to IEC 947-5-1 Section 3, EN 60 947-5-1
Resistance across terminals	\leq 30 m Ω conforming to IEC 957-5-4
Short-circuit protection	10 A cartridge fuse type gG (gl)
Cabling	Screw clamp terminals. Clamping capacity, min. : 1 x 0.5 mm ² , max. : 2 x 1.5 mm ² with or without cable end

Electrical durability

Conforming to IEC 947-5-1 Appendix C. Utilisation categories AC-15 and DC-13. Maximum operating rate : 3600 operating cycles per hour. Load factor : 0.5

a.c. supply \sim 50/60 Hz m inductive circuit



m

d.c. supply

Power broken	in W	for 1	million	operating	cycles	
					-	

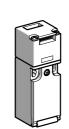
Voltage 120 ۷ 24 48

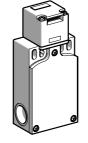
w 13 9 (1) Live parts of the switches are protected against the penetration of dust and water. However, when installing take all necessary precautions to prevent the penetration of solid bodies, or liquids with a high dust content, into the actuator aperture. Not recommended for use in saline atmospheres.

Guard switches

Double insulated, turret head $_{(1)}$, types XCS-PA, XCS-TA and XCS-TE Cable entries tapped M16 x 1.5

Dimensions : pages 2/34 and 2/35 Schemes : page 2/36	References, characteristics
Type of switch	Without locking of actuator





2-pole N/C + N/O break before make slow break (2)	14 13 22 21	XCS-PA592	Θ	-
2-pole N/O + N/C make before break slow break (2)	22 77 13 13	XCS-PA692	Θ	-
2-pole N/C + N/C slow break (2)	22 21	XCS-PA792	\ominus	-
3-pole N/C + N/O + N/O (2 N/O staggered) slow break (2)	22 21 14 2 13 34 2 33	-		XCS-TA592 ⊖
3-pole N/C + N/C + N/O (N/O staggered) slow break (2)	22 21 32 31 14 2 13	_		XCS-TA792 ⊖
3-pole N/C + N/C + N/C slow break (2)	22 21 32 21 32 33	_		XCS-TA892 ⊖
Weight (kg)		0.110		0.160

Complementary characteristics not shown under general characteristics (page 2/15)

Actuation speed	Maximum : 0.5 m/s, minimum : 0.01 m/s
Resistance to forcible	XCS-PA, XCS-TA : 10 N (50 N using actuators XCS-Z12 or XCS-Z13 together with guard retaining device XCS-Z21)
withdrawal of actuator	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

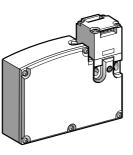
Description	For use with guard switches	Unit reference	Weight kg
Set of 10 blanking plugs for operating head slot	XCS-PA, XCS-TA, XCS-TE	XCS-Z28	0.050
Tool for forced opening of interlocking device (Sold in lots of 10)	XCS-TE	XCS-Z100	0.050

Adjustable throughout 360° in 90° steps. Blanking plug for operating head slot included with switch.
 Schematic diagrams shown represent the contact states whilst the actuator is inserted in the head of the switch.

Guard switches

Double insulated, turret head (1), types XCS-PA, XCS-TA and XCS-TE Cable entries tapped M16 x 1.5

Dimensions : pages 2/34 and 2/35 Schemes : pages 2/36 and 2/37	References, characteristics
Type of switch	With interlocking, locking by solenoid



Type of interlocking Locking on de-energisation and unly To order a guard switch with locking on number (3) by 5 in the references show Example : XCS-TE5312 becomes XCS		n energisation and unlocking on de-ener wn below.	2). gisation of the solenoid, replace the 2 nd
Supply voltage of solenoid	\sim or <u></u> 24 V (50/60 Hz on \sim)	\sim or <u></u> 120 V (50/60 Hz on \sim)	\sim or <u></u> 230 V (50/60 Hz on \sim)

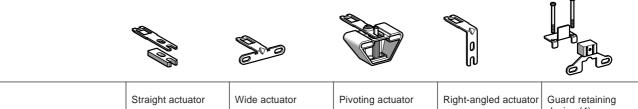
References of switches without actuator (
N/C contact with positive opening operation)

2-pole N/C + N/O break before make slow break (3)	22 - 13 22 - 21	XCS-TE5312 ⊖	XCS-TE5332 ⊖	XCS-TE5342 ⊖
2-pole N/O + N/C make before break slow break (3)	22 14 14 13 13	XCS-TE6312 ⊖	ХСЅ-ТЕ6332 ⊖	XCS-TE6342 ⊖
2-pole N/C + N/C slow break (3)	22 - 11 22 - 21	XCS-TE7312 ⊖	ХСЅ-ТЕ7332 ⊖	XCS-TE7342 ⊖
Weight (kg)		0.360	0.360	0.360

Solenoid characteristics

Load factor	factor 100 %				
Rated operational voltage	\sim or $= 24$ V \sim or $= 120$ V \sim or $= 230$ V		\sim or <u>—</u> 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 actuators and guard retaining device



Description	Straight actuator	Wide actuator	Pivoting actuator	Right-angled actuator	Guard retaining device (4)
For guard switches XCS-PA, TA, TE	XCS-Z11	XCS-Z12	XCS-Z13	XCS-Z14	XCS-Z21
Weight (kg)	0.015	0.015	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 guard switch enables the forced operating head slot included with switch.
(2) A special tool included with the guard switch enables the forced opening of the interlocking mechanism by authorised personnel, allowing withdrawal of actuator and subsequent opening of the N/C safety contacts.
(3) Schematic diagrams shown represent the contact states whilst the actuator is inserted in the head of the switch.
(4) Only for use with XCS-PA and XCS-TA guard switches used in conjunction with actuators XCS-Z12 or XCS-Z13.

Guard switches

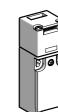
Double insulated, turret head ${}_{(1)},$ types XCS-PA, XCS-TA and XCS-TE Cable entries tapped for Pg 11 (n° 11) cable gland

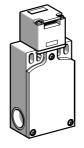
Dimensions : pages 2/34 and 2/35 Schemes : page 2/36

References, characteristics

Type of switch	Without locking of the actuator	
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For UK market, please refer to pages 2/28 and 2/29





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

2-pole N/C + N/O break before make slow break (2)	22 - 21	XCS-PA591 ⊖	-	
2-pole N/O + N/C make before break slow break (2)	22 24 14 14 13	XCS-PA691 ⊖	-	
2-pole N/C + N/C slow break (2)	22 21 11	XCS-PA791 ⊖	-	
3-pole N/C + N/O + N/O (2 N/O staggered) slow break (2)	22 21 14 2 13 34 2 33	-	XCS-TA591 ⊖	
3-pole N/C + N/C + N/O (N/O staggered) slow break (2)	22 21 32 14 13 13	-	XCS-TA791 ⊖	
3-pole N/C + N/C + N/C slow break (2)	32 51 1 32 21 1 33 21 1 34 1 37 1 34 1 34 1 34 1 34 1 34 1 34 1 34 1 34	-	XCS-TA891 ⊖	
Weight (kg)		0.110	0.160	

Complementary characteristics not shown under general characteristics (page 2/15)

Actuation speed	Maximum : 0.5 m/s, minimum : 0.01 m/s
Resistance to forcible	XCS-PA, XCS-TA : 10 N (50 N using actuators XCS-Z12 or XCS-Z13 together with guard retaining device XCS-Z21)
withdrawal of actuator	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 guard switches	Unit reference	Weight kg
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

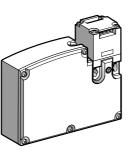
Adjustable throughout 360° in 90° steps. Blanking plug for operating head slot included with switch.
 Schematic diagrams shown represent the contact states whilst the actuator is inserted in the head of the switch

Guard switches

Double insulated, turret head (1), types XCS-PA, XCS-TA and XCS-TE Cable entries tapped for Pg 11 (n° 11) cable gland

Dimensions : pages 2/34 and 2/35 Schemes : pages 2/36 and 2/37	References, characteristics
Type of switch	With interlocking, locking by solenoid
For UK market, please refer	

to pages 2/28 and 2/29



	Locking on de-energisation and unlocking on energisation of solenoid (2). To order a limit switch with locking on energisation and unlocking on de-energisation of the solenoid, replace the 2 nd number (3) by 5 in the references shown below. Example : XCS-TE5311 becomes XCS-TE5511.		
Supply voltage of electromagnet	\sim or <u></u> 24 V (50/60 Hz on \sim)	\sim or <u></u> 120 V (50/60 Hz on \sim)	\sim or <u></u> 230 V (50/60 Hz on \sim)

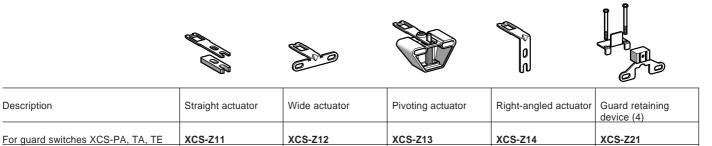
References of switches without actuator (
 N/C contact with positive opening operation)

2-pole N/C + N/O break before make slow break (3)	22 21	XCS-TE5311 ⊖	XCS-TE5331 ⊖	XCS-TE5341 ⊖
2-pole N/O + N/C make before break slow break (3)	22 24 14 13	XCS-TE6311 ⊖	XCS-TE6331 ⊖	XCS-TE6341 ⊖
2-pole N/C + N/C slow break (3)	22 21	XCS-TE7311 ⊖	ХСЅ-ТЕ7331 ⊖	XCS-TE7341 ⊖
Weight (kg)		0.360	0.360	0.360

Solenoid characteristics

Load factor	100 %			
Rated operational voltage	\sim or <u>—</u> 24 V	\sim or <u>—</u> 120 V	\sim or <u>—</u> 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 actuators and guard retaining device



Weight (kg) 0.015 0.015 0.085

(1) Adjustable throughout 360° in 90° steps. Blanking plug for operating head slot included with switch.
 (2) A special tool included with the guard switch enables the forced opening of the interlocking mechanism by authorised personnel, allowing withdrawal of actuator and subsequent opening of the N/C safety contacts.

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

(4) Only for use with XCS-PA and XCS-TA guard switches used in conjunction with actuators XCS-Z12 or XCS-Z13.

0.080

0.025

Guard switches

Double insulated, turret head $_{(1)}$, types XCS-PA, XCS-TA and XCS-TE Cable entries tapped 1/2" NPT

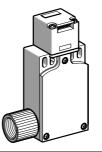
Dimensions : pages 2/34 and 2/35 Schemes : page 2/36

References, characteristics

Type of switch	Without locking of actuator
For UK market please refer	

to pages 2/28 and 2/29





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

2-pole N/C + N/O break before make slow break (2)	22 <u>14</u> 22 21	XCS-PA593 ⊖	-	
2-pole N/O + N/C make before break slow break (2)	22 24 14 13 13	XCS-PA693 ⊖	-	
2-pole N/C + N/C slow break (2)	22 21	XCS-PA793 ⊖	-	
3-pole N/C + N/O + N/O (2 N/O staggered) slow break (2)	22 21 14 2 13 34 2 33	-	XCS-TA593 ↔	
3-pole N/C + N/C + N/O (N/O staggered) slow break (2)	22 21 32 31 14 2 13	-	XCS-TA793 ⊖	
3-pole N/C + N/C + N/C slow break (2)	22 1 32 21 1 33 21 1	-	XCS-TA893 ⊖	
Weight (kg)		0.110	0.160	

Complementary characteristics not shown under general characteristics (page 2/15)

Maximum : 0.5 m/s, minimum : 0.01 m/s
XCS-PA, XCS-TA : 10 N (50 N using actuators XCS-Z12 or XCS-Z13 together with guard retaining device XCS-Z21)
XCS-TE : 500 N
XCS-PA, XCS-TA : > 1 million operating cycles
XCS-TE : 1 million operating cycles
For maximum durability : 600 operating cycles per hour
15 N
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

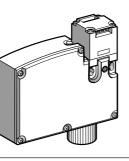
Description	For use with Guard switches	Unit reference	Weight
Set of 10 blanking plugs for operating head slot	XCS-PA, XCS-TA, XCS-TE	XCS-Z28	0.050
Tool for forced opening of interlocking device (Sold in lots of 10) (1) Adjustable throughout 360° in 90° steps. Blanking plug for operating head (2) Schematic diagrams shown represent the contact states whilst the actuat	XCS-TE d slot included with switch. for is inserted in the head of the	XCS-Z100	0.050

Guard switches

Double insulated, turret head (1), types XCS-PA, XCS-TA and XCS-TE Cable entries tapped 1/2" NPT

Type of switch	With interlocking, locking by solenoid	
Dimensions : pages 2/34 and 2/35 Schemes : pages 2/36 and 2/37	References, characteristics	

For UK market, please refer to pages 2/28 and 2/29



Type of interlocking	Locking on de-energisation and unlocking on energisation of solenoid (2). To order a guard switch with locking on energisation and unlocking on de-energisation of the solenoid, replace the 2 nd number (3) by 5 in the references shown below. Example : XCS-TE5313 becomes XCS-TE5513.			
Supply voltage of solenoid	\sim or <u></u> 24 V (50/60 Hz on \sim)	\sim or <u></u> 120 V (50/60 Hz on \sim)	\sim or <u></u> 230 V (50/60 Hz on \sim)	

References of switches without actuator (
N/C contact with positive opening operation)

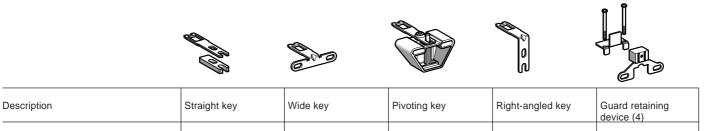
2-pole N/C + N/O break before make slow break (3)	22 - 13 22 - 21	XCS-TE5313 ⊖	XCS-TE5333 ⊖	XCS-TE5343 ⊖
2-pole N/O + N/C make before break slow break (3)	22 14 14 13 13	XCS-TE6313 ⊖	XCS-TE6333 ⊖	XCS-TE6343 ⊖
2-pole N/C + N/C slow break (3)	22 11 22 21	XCS-TE7313 ⊖	ХСЅ-ТЕ7333 ⊖	XCS-TE7343 ⊖
Weight (kg)		0.360	0.360	0.360

Solenoid characteristics

For guard switches XCS-PA, TA, TE

Load factor	100 %			
Rated operational voltage	\sim or <u>—</u> 24 V	\sim or <u>—</u> 120 V	\sim or <u>—</u> 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 actuators and guard retaining device



XCS-Z13

XCS-Z14

0.025

 Weight (kg)
 0.015
 0.085

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

XCS-Z11

(2) A special tool included with the guard switch enables the forced opening of the interlocking mechanism by authorised personnel, allowing withdrawal of actuator and subsequent opening of the N/C safety contacts.

XCS-Z12

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

(4) Only for use with XCS-PA and XCS-TA guard switches used in conjunction with actuators XCS-Z12 or XCS-Z13.

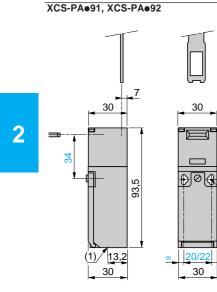
XCS-Z21

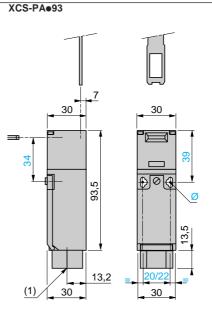
0.080

Double insulated, turret head, types XCS-PA, XCS-TA and XCS-TE

References : pages 2/30 to 2/33 Schemes pages 2/36 and 2/37

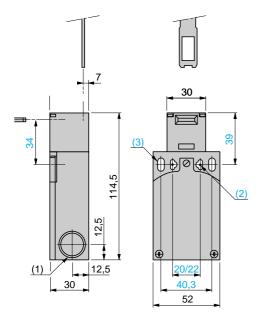
Dimensions





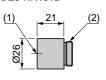
(1) 1 tapped entry for cable gland 2 holes Ø 4.3 on 20 ctrs : 2 elongated holes Ø 4.3 x 8.3 on 22 ctrs.

XCS-TA•9•



(1) 2 tapped entries for cable gland or 1/2" NPT conduit adaptor 2 elongated holes Ø 4.3 x 8.3 on 22 ctrs., 2 holes Ø 4.3 on 20 gated holes Ø 5.3 x 13

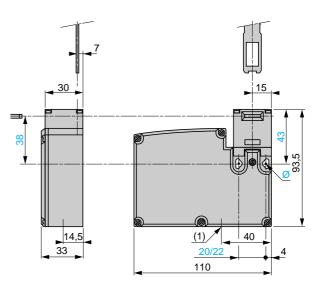
1/2" NPT conduit adaptor DE9-RA1012



(1) Tapped entry for 1/2" NPT conduit (2) 11 mm threaded shank

2 holes Ø 4.3 on 20 ctrs elongated holes Ø 4.3 x 8.3 on 22 ctrs.

XCS-TE



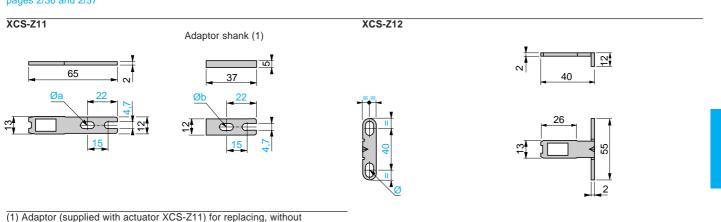
(1) 1 tapped entry for cable gland or 1/2" NPT conduit adaptor 2 elongated holes Ø 4.3 x 8.3 on 22 ctrs., 2 holes Ø 4.3 on 20 ctrs

(1) 1 cable entry tapped for 1/2" NPT conduit

Double insulated, turret head, types XCS-PA, XCS-TA and XCS-TE

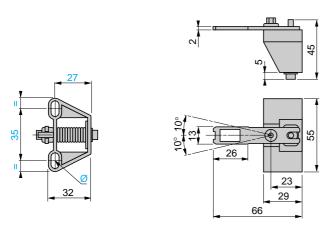
References : pages 2/30 to 2/33 Schemes : pages 2/36 and 2/37

Dimensions



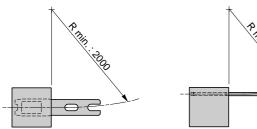
(1) Adaptor (supplied with actuator XCS-Z11) for replacing, without drilling additional fixing hole, an XCK-T guard switch with actuator XCK-Y01 by an XCS-TA guard switch with actuator XCS-Z11 Øа 2 elongated holes Ø 4.7 x 10 Øb elongated hole for M4 or M4.

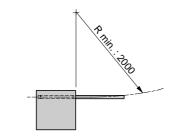
XCS-Z13

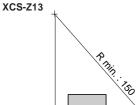


Ø: 2 elongated holes Ø 4.7 x 10

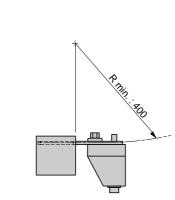
Operating radius required for actuator XCS-Z11





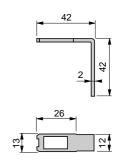


0-0

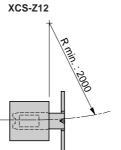


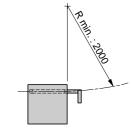
Ø: 2 elongated holes Ø 4.7 x 10

XCS-Z14 12 4,7



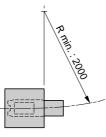
Ø: 1 elongated hole Ø 4.7 x 10





R min:

XCS-Z14

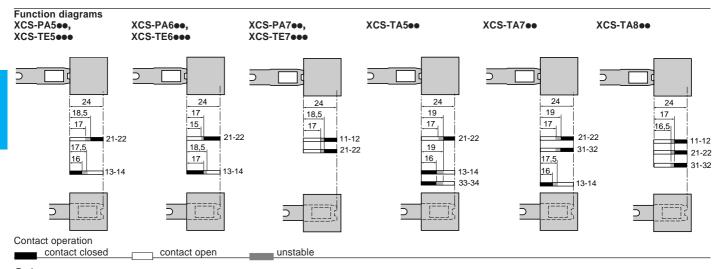


Double insulated, turret head, types XCS-PA, XCS-TA and XCS-TE

References pages 2/30 to 2/33 **Dimensions** pages 2/34 and 2/35 Setting-up, schemes

Setting-up

2

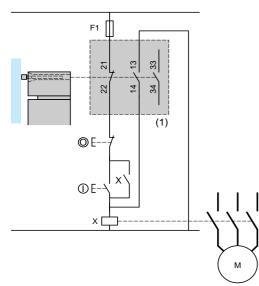


Schemes Note: These schemes are given as examples only, the designer must refer to the relevent safety standards for guidance

Wiring to category 1 (EN 954-1)

Example with 3-pole N/C + N/O + N/O contact and protection fuse to prevent shunting of the N/C contact, either by cable damage or by tampering.

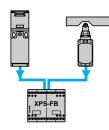
The risk assessment (EN1050) will help the designer determine the most appropriate risk reduction methods and the part played by the safety related parts of the control system in reducing the risk



(1) Signalling contact (1) Signalling contact Wiring to category 4 (EN 954-1). Wiring method used in conjunction with PREVENTA safety module. (The guard switch should be used in conjunction with a safety limit switch to give electrical/mechanical redundancy)

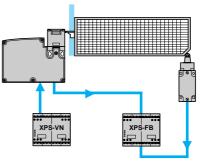
Method for machines with quick rundown time (low inertia)

Locking or interlocking mechanism uses the principles of redundancy and autocheck. The safety modules ensure these functions.



Locking by actuator and actuation in positive mode associated with a safety module. See page 1/9

Method for machines with long rundown time (high inertia)



Interlocking mechanism with actuator captive in the guard and zero speed detection. See page 1/9.

Double insulated, turret head, type XCS-TE

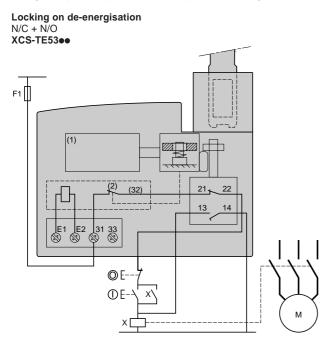
Schemes

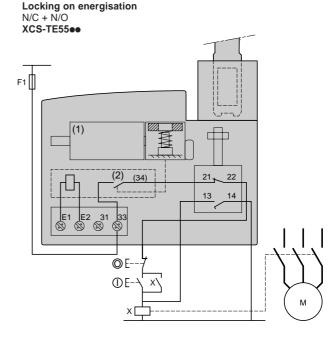
References : pages 2/30 to 2/33 Dimensions pages 2/34 and 2/35

Note: These schemes are given as examples only, the designer must refer to EN 954-1 for guidance

Wiring to category 1 (EN 954-1)

Wiring examples with protection fuse to prevent shunting of the N/C contact, either by cable damage or by tampering.



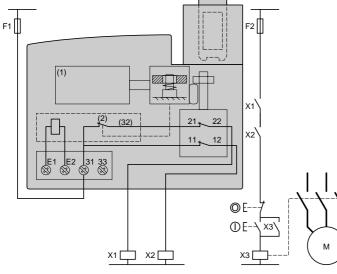


(1) Solenoid
(2) Auxiliary contact
E1-E2 : Solenoid supply
13-14 · Safety contact, available for redundancy or signalling

Wi	rina	to cat	edory 3	(EN 954-1)	

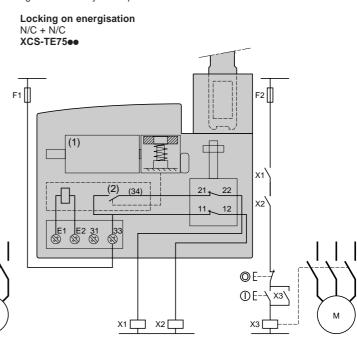
Wiring examples with redundancy for the guard switch contacts, without monitoring or redundancy in the power circuit...

Locking on de-energisation N/C + N/C XCS-TE73



(1) Solenoid
(2) Solenoid auxiliary contact
E1-E2 : Solenoid supply
11-12 : Safety contact, available for redundancy

(1) Solenoid	
(2) Auxiliary contact	
E1-E2 : Solenoid supply	
13-14 : Safety contact, available for redundancy or signalling	
toring or redundancy in the power circuit	



(1) Solenoid	
(2) Solenoid auxiliary	contact
(2) Solenoid auxiliary	Contact

- auxiliary
- E1-E2 : Solenoid supply
- 11-12 : Safety contact, available for redundancy