References, characteristics

Safety solutions using Preventa Safety switches Plastic, 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 k	еу		
References of sw	vitches wit	hout operating key (⊖ N/C contact	with positive opening operation	on)	
2-pole N/C + N/O break before make slow break (2)	22 21 22 21	XCS-PA591 ⊖	-		
2-pole N/O + N/C make before break slow break (2)	22 7 13 13	XCS-PA691 ⊖	-		
2-pole N/C + N/C slow break (2)	22 21	XCS-PA791 ⊖	-		
3-pole N/C + N/O + N/O (2 N/O staggered) slow break (2)	22 24 14 13 34 23 33	-	XCS-TA591	\ominus	
3-pole N/C + N/C + N/O (N/O staggered) slow break (2)	22 32 32 14 13 13	-	XCS-TA791	Θ	
3-pole N/C + N/C + N/C slow break (2)	12 11 22 21 32 31 31	-	XCS-TA891	\ominus	
Weight (kg)		0.110	0.160		
Complementary of	characteri	StiCS not shown under general characteristics	s (page 32921/3)		
Actuation speed Resistance to forcible ke	y withdrawal	Maximum : 0.5 m/s, minimum : 0.01 m/s XCS-PA, XCS-TA : 10 N (50 N using operating XCS-TE : 500 N	keys XCS-Z12 or XCS-Z13 t	ogether with guard retainir	ng device XCS-Z21)
Mechanical durability		XCS-PA, XCS-TA : > 1 million operating c XCS-TE : 1 million operating cycles	ycles		
Maximum operating rate Minimum force for posit Cable entry		For maximum durability : 600 operating cycl 15 N XCS-PA, XCS-TE : 1 entry tapped for n° 11 XCS-TA: 2 entries tapped for n° 11 cable gla Clamping capacity 7 to 10 mm.	cable gland conforming to N		
References of ac	cessories				
		Description	For use with limit 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
XCS-Z91 (1) Adjustable throughout	360° in 90° st	Padlocking device to prevent insertion of operating key, for up to 3 padlocks (padlocks not supplied) eps. Blanking plug for operating head slot incl	XCS-PA, XCS-TA, XCS-TE uded with switch.	XCS-Z91	0.053
(2) Schematic diagrams sl	hown represer	nt the contact states whilst the operating key i	s inserted in the head of the	switch.	

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

Safety solutions using Preventa Safety switches Plastic, 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-energi To order a limit switch w 2 nd number by 5 in the Example : XCS-TE531	vith locking on en references show	nergisatio vn below.	n and unlocking on de		ctromagnet, replace the
Supply voltage of electromagnet	\sim or <u></u> 24 V (50/60 H	Iz on \sim)	\sim or $=$	120 V (50/60 Hz on /	\sim) \sim or <u>—</u> 230 V	' (50/60 Hz on \sim)
References of switches wit						
2-pole N/C + N/O break before make slow break (3) $\begin{array}{c c} & & & \\$	XCS-TE5311 ⊖		XCS-TE		XCS-TE5341	θ
2-pole N/O + N/C $[a] \begin{bmatrix} a \\ b \\ c \\ c$	XCS-TE6311 ⊖		XCS-TE	6331 ⊖	XCS-TE6341	Θ
2-pole N/C + N/C $\begin{array}{c} 7 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 2 \\ 2 \\ 3 \\ 2 \\ 3 \\ 2 \\ 3 \\ 3 \\ 3 \\ 3$	XCS-TE7311 ⊖		XCS-TE	7331 \ominus	XCS-TE7341	Ð
Weight (kg)	0.360		0.360		0.360	
Electromagnet characterist	tics					
Load factor	100 %					
Rated operational voltage	\sim or — 24 V		\sim or $_{}$	120 V	\sim or <u>—</u> 230 V	/
Voltage limits	- 20 % + 10 % of the ra	ted operational	voltage (i	including ripple on) conforming to IEC 947	-1
Service life	20,000 hours					
Consumption	10 VA max.					
References of operating keep	eys and guard re	taining dev	vice			
	Color and	Bola			0000	
Description	Straight key	Key with wide t (5)	fixing F	Pivoting key	Right-angled key	Guard retaining device (4)
For limit switches XCS-PA, TA, TE	XCS-Z11	XCS-Z12 XC	S-Z15	CS-Z13	XCS-Z14	XCS-Z21
Weight (kg) 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. 0.025 0.080 (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. 0.015 0.012 0.085 0.025 0.080 (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.						
	2935/3 chemes:	page 3293	35/4			

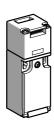
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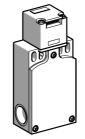
References, characteristics

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 $_{\rm (2)}$

Type of switch Without locking of operating key





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

2-pole N/C + N/O break before make	2 3	XCS-PA592	\ominus	-
slow break (3) 2-pole N/O + N/C make before break slow break (3)	22 21 14 7 13 22 14 7 13 22	XCS-PA692	Θ	-
2-pole N/C + N/C slow break (3)	5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	XCS-PA792	\ominus	-
3-pole N/C + N/O + N/O (2 N/O staggered) slow break (3)	22 21 22 13 34 1 13 33 33	-		XCS-TA592 ⊖
3-pole N/C + N/C + N/O (N/O staggered) slow break (3)	22 21 32 31 14 J 13	-		XCS-TA792 ⊖
3-pole N/C + N/C + N/C slow break (3)	12 22 21 32 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

	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
Š.	Tool for forced opening of interlocking device (Sold in lots of 10)	XCS-TE	XCS-Z100	0.050
XCS-Z91	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

(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.

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References, characteristics (continued)

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 interloo	cking, lockin	ig by ele	ectromagnet		
		Jet				
Гуре of interlocking	To order a limit sw the 2 nd number by	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 electromagne				120 V (50/60 Hz	on \sim) \sim or == 23	0 V (50/60 Hz on \sim)
References of switch		ng key (⊖ א/מ				
2-pole N/C + N/O preak before make slow break (4)	<u> </u> २ ХСS-ТЕ5312 ⊖ छ		хсѕ-т	E5332 👄	XCS-TE534	12 ⊖
2-pole N/O + N/C ⁷² nake before break ₈₀	$\begin{array}{c c} & & \\ & &$		хсѕ-т	E6332 ⊖	XCS-TE634	12 🕀
P-pole N/C + N/C	77		хсѕ-т	E7332 \ominus	XCS-TE734	12 ⊖
Veight (kg)	0.360		0.360		0.360	
Electromagnet chara	cteristics					
oad factor	100 %					
ated operational voltage	\sim or 24 V		\sim or :	 120 V	∼ or <u></u> 23	0 V
/oltage limits Service life	- 20 %, + 10 % of 20,000 hours	the rated operati	onal voltage	e (including ripple o	on) conforming to IEC	947-1
Consumption	10 VA max.					
References of operation		d retaining c	levice			
	and the second sec	Polo)		C C	
Description	Straight key	Key with w (5)	ide 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
Veight (kg)	0.015	0.015	0.012	0.085	0.025	0.080
1) Adjustable throughout 360°						
2) For cable entries tapped for Example: XCS-TE5312 become	es XCS-TE5311.					
3) A special tool included with afety contacts.		ced opening of th	e interlockir	ng device, allowing	key withdrawal and subs	equent opening of the
-	represent the contact state	s whilst the opera	atina kev is	inserted in the hea	d of the switch.	

(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.

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References, characteristics

Safety solutions using Preventa Safety switches Plastic, turret head (1), types XCS-PA, XCS-TA and XCS-TE Cable entries tapped 1/2" NPT

Type of switch		Without Ic	ocking of operatir	ng key			
References of sw	vitches wit	thout opera	ating key (⊖N/C ∞	ntact with positive o	pening operation	on)	
2-pole N/C + N/O break before make slow break (2)	22 21	XCS-PA593	\ominus		-		
2-pole N/O + N/C make before break slow break (2)	22 14 14 13	XCS-PA693	\ominus		-		
2-pole N/C + N/C slow break (2)	22 21	XCS-PA793	\ominus		-		
3-pole N/C + N/O + N/O (2 N/O staggered) slow break (2)	22 22 34 23 34 23 34 23	-			XCS-TA593	\ominus	
3-pole N/C + N/C + N/O (N/O staggered) slow break (2)	22 32 32 14 14 13	-			XCS-TA793	\ominus	
3-pole N/C + N/C + N/C slow break (2)	32 21 11 32 21 11 33 31 21	-			XCS-TA893	Θ	
Weight (kg)		0.110			0.160		
Complementary	characteri	stics not show	wn under general characte	eristics (page 32921	1/3)		
Actuation speed Resistance to forcible ke	ey withdrawal				12 or XCS-Z13	together with guard	retaining device XCS-Z21)
Mechanical durability			S-TA : > 1 million opera hillion operating cycles	ing cycles			
Maximum operating rate Minimum force for posit			durability : 600 operatin	g cycles per hour			
Cable entry		XCS-PA : 1 e XCS-TE : 1 e XCS-TA : 2 e	ntry tapped for 1/2" NPT ntry tapped 11 mm and fi ntries tapped 11 mm, 1 fi fitted with blanking plug.	tted with metal ada	ptor DE9-RA1		
References of ac	cessories	;					
		Description		For use v limit swit		Unit reference	Weight kg
200		Blanking plug (Sold in lots of	is for operating head si	ot XCS-PA, XCS-TE	XCS-TA,	XCS-Z28	0.050
		Tool for force device (Sold in	d opening of interlocking lots of 10)	ng XCS-TE		XCS-Z100	0.050
XCS-Z91 (1) Adjustable throughout		of operating k (padlocks not	evice to prevent inserti key, for up to 3 padlock supplied)	s XCS-TE	XCS-TA,	XCS-Z91	0.053
(2) Schematic diagrams s	hown represer		tates whilst the operating			e switch.	
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Dimensions:	32935/3	page 32935/4	
bages 32935/2 and	Schemes:		

Safety solutions using Preventa

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

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Type of switch	With interlocking, locking by electroma	gnet			
Type of interlocking	Locking on de-energisation and unlocking on energis To order a limit switch with locking on energisation and un the 2 nd number by 5 in the references shown below. Example : XCS-TE5313 becomes XCS-TE5513 .	sation of electromagnet (2). nlocking on de-energisation of the electromagnet, replace			
Supply voltage of electromagnet	\sim or 24 V (50/60 Hz on \sim)	\sim or 120 V (50/60 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 (3) $\begin{array}{c} 1 \\ 1 \\ 2 \\ 2 \\ 3 \\ 2 \\ 3 \\ 3 \\ 2 \\ 3 \\ 3 \\ 3$	XCS-TE5313 ⊖	XCS-TE5333 ⊖			
2-pole N/O + N/C make before break slow break (3) $7 \begin{bmatrix} -2 \\ -2 \\ -2 \end{bmatrix}$	XCS-TE6313 ⊖	-			
2-pole N/C + N/C $2 = \frac{1}{2} = \frac{1}{2}$ slow break (3) $2 = \frac{1}{2} = \frac{1}{2}$	XCS-TE7313 ⊖	XCS-TE7333 ⊖			
Weight (kg)	0.360	0.360			
Electromagnet characteris	tics				
Load factor	100 %				
Rated operational voltage	\sim or $= 24$ V	\sim or = 120 V			
Voltage limits	- 20 %, + 10 % of the rated operational voltage (including				
Service life	20,000 hours				
Consumption	10 VA max.				
References of operating keep	eys and guard retaining device				

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Description	Straight key	Key with v (5)	vide fixing	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.

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