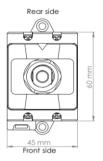
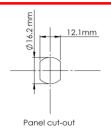


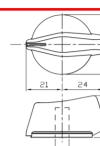
Mentioned rating counts when two poles (+ -) are applied, If there are two negative poles intended to combine in one terminal deck, then the maximal allowable current (A) has to be respected. This means the maximal allowable current has to be split by 2 (with 2 poles combined).

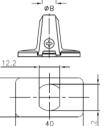


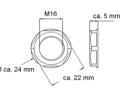
Ø8 mm



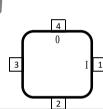
□45 mm











Terminals Scheme									
Layer	Front Side		Symbol	Rear Side		Positions			
No.	Left	Right	Symbol	Left	Right	1	2	3	4
7									
6									
5									
4		+2 -		-	+2	I			0
3	-	-		-		Ι			0
2		+1 -	<u></u>	-	+1	I			0
1			Empty						

(I = Contact is closed, 0 = Contact is open)

## Mounting instructions

In the application all ratings according to the datasheet have to be respected. After mounting, the  $\mbox{\ wiring must be}$ checked and the switch must operate smoothly. When building the switch in an enclosure, the space envelope must be respected according to the applicable standards.

## Maintenance

The X type switches are designed for a very long life but it is advised to do some simple yearly maintenance.

- Check the installation for signs of overload or overheating. The terminals may not exceed the limit of 85oC under full
- By operating the switch a few times (5x) the contacts will clean themselves and the switch will have a longer life.

## Connection

The terminals, can take copper wires up to 6 mm2. The recommended Spade Tongue Terminals may have a maximum width of 9 mm (see table for recommendations)

		H=23.8 mm + (fr   Number   M =		Øc	a. 24 mm	ca. 22 n	nm		
Technical data		Symbol Ratings	: I	H	III	IV	V	0111	
Rated operationa	l voltage	Ue	1000	850	800	650	40		
Rated operationa	l current	le	16	20	25	30		45 A d	С
									_
Required fine wire		inimal)*:	2.5	4.0	4.0	6.0	10	.0 mm	12
*IEC60947-1, tabl									
Number of DC po								3	
Utilization catego	ry DC						DC-21		
Pollution degree							100	2	
IP rating terminal		NAA /				4.5	IP2		_
Tightening torque	e terminai screws	ivi4 (min max.)				1.5	- 1	.7 Nm	1
Method of mount	ing								
		le hole and four hole	nanol mounting				IP6	55	
ir rating of the sit	art iii case or sirigi	le note and rout note	parier mounting				IFC	,,	
Positions			12 (OFF)	and 3 c	o'clock (ON)				
Actuator					o with long so	rew to 1	fix in sh	aft	
Method of operat	tion				anual operati				
Actuator operation			тасрен	aciic iii	arradi operati	011	1	.4 Nm	1
· ·		actuator (min max	.)			0.2	- 0	.4 Nm	า
0 ** 0 ** 1			,						
Rated impulse wit	thstand voltage		Uimp					8 kV	
Insulation voltage	1		Ui				85	50 V	
Rated thermal cui	rrent uninterrupte	ed duty	lu					15 A	
Rated short-time	withstand current	t (1s)	lcw				70	00 A	
Rated short-circui	it making capacity	,	Icm				1	.4 kA	
Rated conditional	short-circuit curr	ent	Isc					5 kA	
Minimum require	d dimensions of e	nclosures L x W x D*	{space envelope}		124 x	47	х б	50 mm	n
* see the drawing	for the height of	the switch. The num	ber of layers N is:					3	
Weight							ca. 18	30 g	
Allowed ambient	temperature (mir	ı max.)	T <sub>ambient</sub>			-40	- 7	70 °C	
Allowed storage t	emperature (min.	- max.)	T <sub>storage</sub>			-40	- 8	35 °C	
Relative humidity	(max.), without	condensation at 20°C	C RH				9	90 %	
n 1	M C .	T 1	w	(WC)	w· ·		2 .	0.1	
kecommend	Manufacturer	Type number	Wire size (A	IWG)	Wire si	ze (mm	7   '	Color	

Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²)	Color
JST	FVD2-YS4A	AWG 16 – AWG 14	1,0 - 2,5 mm <sup>2</sup>	Blue
TE connectivity	C-165012	AWG 16 – AWG 14	1,0 - 2,5 mm <sup>2</sup>	Blue
Vogt	3635c	AWG 16 – AWG 14	1,5 – 2,5 mm²	Blue
TE connectivity	C-165015	AWG 12 - AWG 10	3,0 - 6,0 mm <sup>2</sup>	Yellow
Vogt	3652c / 3653c	AWG 12 - AWG 10	3,0 - 6,0 mm <sup>2</sup>	Yellow
Santon (JST)	52A1256.35	AWG 8 - AWG 10	10,5mm²-16mm² *1	*2

<sup>\*1 16</sup>mm² only with fine stranded wire (or two times 6mm²)

<sup>\*2</sup> Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00