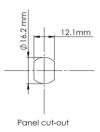
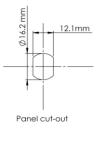
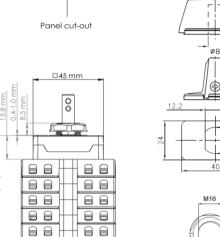


Ø8 mm







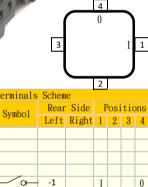
	<u> </u>						
Cechnical data	Symbol Ratings:	I	H	III	IV	V	Unit
Rated operational voltage	Ue	1000	850	800	650	400	V dc
Rated operational current	le	16	20	25	30	45	A dc
Required fine wire cross-section	(minimal)*:	2.5	4.0	4.0	6.0	10.0	mm²
*IEC60947-1, table 9							
Number of DC poles						2	
Utilization category DC						DC-21B	
Pollution degree						2	
IP rating terminals						IP20	
Tightening torque terminal scre	ws M4 (min max.)				1.5 -	- 1.7	Nm
Method of mounting							
IP rating of the shaft in case of single hole and four hole panel mounting						IP65	

Positions	12 (OFF) and 3 o'clock (ON)						
Actuator	Standard A knob with long screw to fix in shaft						
Method of operation	Independent manual operation						
Actuator operation force (max.)						1.4	Nm
Tightening torque M3 screw in the actuator (min max.)				0.2	-	0.4	Nm
Rated impulse withstand voltage	Uimp					8	kV
Insulation voltage	Ui					850	V
Rated thermal current uninterrupted duty	lu					45	Α
Rated short-time withstand current (1s)	lcw					700	Α
Rated short-circuit making capacity	Icm					1.4	kA
Rated conditional short-circuit current	Isc					5	kA
Minimum required dimensions of enclosures L x W x D* {space	envelope}	124	х	47	х	50	mm
* see the drawing for the height of the switch. The number of la	ayers N is:					2	
Weight					ca	. 149	g
Allowed ambient temperature (min max.)	T _{ambient}			-40	-	70	°C
Allowed storage temperature (min max.)	T _{storage}			-40	-	85	°C
Relative humidity (max.), without condensation at 20°C	RH					90	%

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







+1 Ι 0

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

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Mounting instructions

Front Side

Left Right

+1

2

1

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)

- *1 16mm² only with fine stranded wire (or two times 6mm²)
- *2 Optional: A yellow finger safe sleeve for the Spade Tongue Terminal (Santon 52A1256.35) can be ordered under item number 52A1564.00