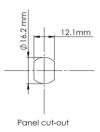
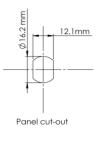
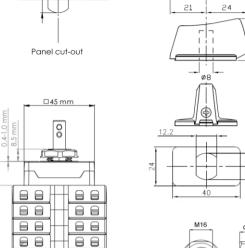
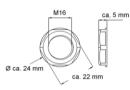


Ø8 mm









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Technical 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	2.5	4.0	4.0	6.0	10.0	mm²		
*IEC60947-1, table 9								
Number of DC poles					6			
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 s	single hole and four hole pa	anel mounting				IP65		
			12 (OFF) and 3 o'clock (ON)					
Actuator Standard A knob with long screw to fix in shafe					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	10	Uimp				8	kV	
Insulation voltage	,c	Ui				850	V	
Rated thermal current uninterr	untod duty	lu				45	A	
Rated short-time withstand cur		lcw				700	A	
Rated short-circuit making capa	(-)	Icm				1.4	kA	
Rated conditional short-circuit	,	Isc				5	kA kA	
Rateu conditional short-circuit	turrent	ISC				5	KA	
Minimum required dimensions	of enclosures Lx Wx D* (sr	nace envelope}		124	x 47	x 92	mm	
Minimum required dimensions of enclosures L x W x D* {space envelope} * see the drawing for the height of the switch. The number of layers N is:			124	^ 4/	, <u>32</u>			
see the drawing for the neight of the switch. The number of layers NTS.						0		

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 mm²	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

Tambient

 $T_{storage}$

RH





3 I 1							
			2				
S	Schem	e					
	Rear	Side	P	osi	tic	ons	
	Left	Right	1	2	3	4	
	3		I			0	
		_					

I

+1

0

0

0

0

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

O+

OH

์∩⊦

Mounting instructions

+2

-1

Front Side

Left Right

+1

Layer

6 5

4

3

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

Allowed ambient temperature (min. - max.)

Allowed storage temperature (min. - max.)

Relative humidity (max.), without condensation at 20°C

Weight

ca. 274

70

85

90

°C

%

-40

-40