\*IEC60947-1, table 9

Number of DC poles

TE connectivity

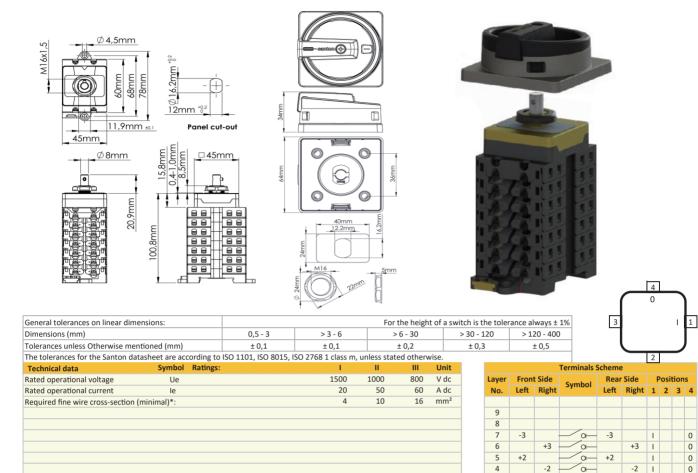
TE connectivity

Santon (JST)

Vogt

Vogt

Pollution degree Utilization category DC



DC-PV1

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

์ O⊢

O+

-1

0

0

## Mounting instructions

-1

In the application all ratings according to the datasheet have to be respected. After mounting, the 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. In case mounting the switch with a rear bracket using the optional four screw holes in the bottom plate, please take into account the required air&creeping distances with respect to the live parts according to the applicable standard (IEC/UL).

## 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 85°C 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)

## Warning

Verify that all connections (including bridging link connections) are suitable for the rated current, prepared to ensure only conductive parts are clamped and tightend to the manufacturer's required torque before energization.

<sup>\*2</sup> To insulate the cable lugs, you can use the insulating spouts of the ES series from CEMBRE with the type designation ES3 ...

IP rating terminals				IP20				
Tightening torque terminal screws N	14 (min max.)			1,5	-	1,7	Nm	
Method of mounting								
IP rating of the shaft in case of single hole mounting						IP65		
Tightening torque panel mounting n	ut (min max.)			2,0	-	2,5	Nm	
Panel thickness between				1	_	4	mm	
Positions		12 (OFF) and 3 o'clock (ON)						
Actuator	<u> </u>	knob with padlock and top screw, black/grey [G],						
Method of operation	Independent m	anual operati	on					
					-			
Rated impulse withstand voltage		Uimp				8	kV	
Insulation voltage		Ui				1500	V	
Rated thermal current uninterrupted	lu				60	Α		
Rated short-time withstand current	lcw				700	Α		
Rated short-circuit making capacity	Icm				1	kA		
Rated conditional short-circuit curre	Isc				5	kA		
Minimum required dimensions of enclosures L x W x D* {space envelope} 124 x				47	Х	102	mm	
* see the drawing for the height of t	he switch. The number	er of layers N is:				6		
Weight				Ca	a. 253	g		
Allowed ambient temperature (min.	Tambient		-40	-	70	°C		
Allowed storage temperature (min.	Tstorage		-40	-	85	°C		
Relative humidity (max.), without co	ondensation at 20°C	RH				90	%	
Recommend Manufacturer	Type number	Wire size (AWG)	Wire size (mm²) Colo		r			
JST		AWG 16 - AWG 14	1,0 – 2,5 mm <sup>2</sup>		Blue	e		

AWG 16 - AWG 14

AWG 16 - AWG 14

AWG 12 - AWG 10

AWG 12 - AWG 10

AWG 8 - AWG 10

C-165012

3635c

C-165015

3654c / 3655c

54A1256.35

1.0 - 2.5 mm<sup>2</sup>

1,5 - 2,5 mm<sup>2</sup>

3,0 - 6,0 mm<sup>2</sup>

3,0 - 6,0 mm<sup>2</sup>

10,5mm<sup>2</sup>-16mm<sup>2</sup> \*1

Blue

Blue

Yellow

Yellow

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