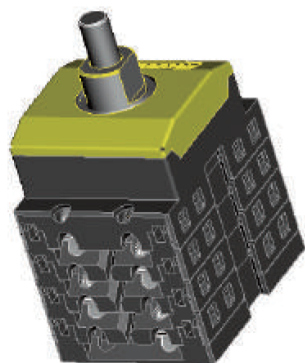
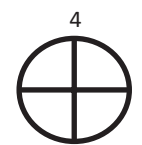




Data Sheet Santon X-Type switch X60.16PL6E-(A)

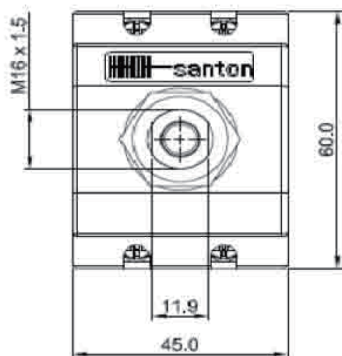
Switch disconnecter for solar application according to
ICE 60947-1&3



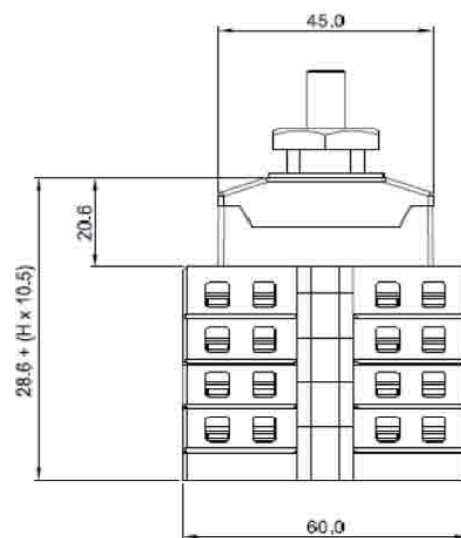
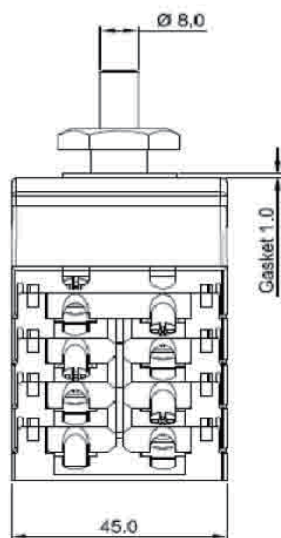
Contact Scheme							
Layer No.	Marking	Symbol	Marking	On Positions			
				1	2	3	4
12		—/—					
11		—/—					
10		—/—					
9		—/—					
8		—/—					
7		—/—					
6	-3	—/—	-3	X			
5	+3	—/—	+3	X			
4	+2	—/—	+2	X			
3	-2	—/—	-2	X			
2	-1	—/—	-1	X			
1	+1	—/—	+1	X			

Contacts are made in "X" marked position.
Symbols for interconnection: []

Technical data	Symbol	Unit
nominal voltage (DC poles)	Ue	600 V dc
nominal current (DC poles)	Ie	16 A dc
nominal voltage (second rating DC poles, if requested)	Ue	V dc
nominal current (second rating DC poles, if requested)	Ie	A dc
method of mounting	single hole mounting IP65 [P] long gland	
number of DC poles	6	
utilization category DC	DC-21B	
actuator	without a knob, suitable for standard black knob [A]	
positions	OFF at 12 hr, ON at 3 hr [E]	
rated impulse withstand voltage	Uimp	8 kV
insulation voltage	Ui	600 V
rated thermal current uninterrupted duty	Iu	16 A
rated short-time withstand current (1s)	Icw	480 A
rated short-circuit making capacity	Icm	1,4 kA
rated conditional short-circuit current	6 kA	
max. cut-off current	kA	
max power dissipation	2,5 W	
method of operation	independent manual operation	
minimum required dimensions of enclosures L x W x H*	124 x 47 x 95 mm	
* see the drawing for the height of the switch. The number of layers H is:	6	
terminal screws M4 need a tightening torque, min. - max.	1,5	1,7 Nm
tightening torque screw in the standard black knob, min. - max.	2,0	2,5 Nm
minimum required fine wire cross-section: IEC60947-1, table 9	2,5 mm ²	
ambient temperature allowed between	- 5 and + 40 °C	
storage temperature allowed between	- 40 and + 80 °C	
maximum relative humidity, without condensation at 20°C	90 %	
pollution degree	2	
IP rating terminals	IP20	
IP rating gland of the shaft in case of single hole panel mounting	IP65	
nominal voltage (AC poles)	Ue	V ac
nominal current (AC poles)	Ie	A ac
number of DC poles		
auxiliary contact, nominal current 16A at 250 V, AC15	No auxiliary contact	
weight	-	284 g
accessories:	-	



H is the number of layers in the switch



Mounting instructions

In the application all ratings have to be respected. When building the switch in an enclosure, the space envelope must be respected. The terminals can take flexible wires up to 6 mm² and fork shoes for wires up to 10 mm² (type 3547C from Vogt). After mounting, the wiring must be checked and the switch must operate smoothly.

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 load.
- By operating the switch a few times (5x) the contacts will clean themselves and the switch will have a longer life.

Dimensions, specifications and data shown are be subject to change without notice.