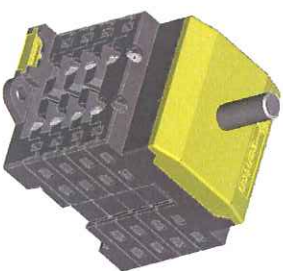


# THE NEW SANTON X-TYPE SWITCH

## TECHNICAL SPECIFICATIONS AND INSTRUCTIONS FOR USE

SANTON X-TYPE SWITCH: X100.1682E-A

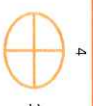
Switch disconnecter for solar application according to IEC 60947-1&3



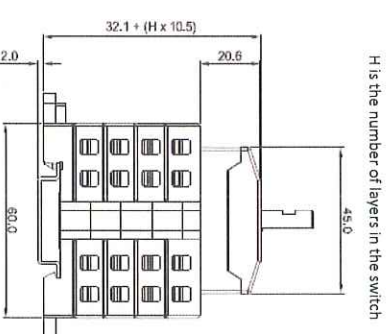
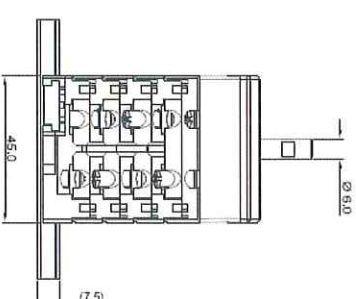
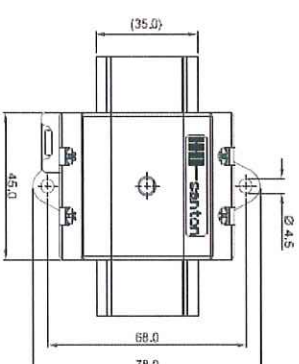
Contact scheme		Positions			
Marking	Symbol	Marking	1	2	3 4
12	—/—				
11	—/—				
10	—/—				
9	—/—				
8	—/—				
7	—/—				
6	—/—				
5	—/—				
4	-1	-1	X		
3	—/—	+1	X		
2	—/—	+1	X		
1	Empty				

Contacts are made in "X" marked position.

Symbols for interconnection: []



Technical data		Symbol	Unit
nominal voltage (DC poles)	1000	Ue	V dc
nominal current (DC poles)	16	Ie	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	DIN rail and or Base mounting [B]		
number of DC poles	2		
utilization category DC	DC-21B		
actuator	standard black [A], OFF at 12 hr, ON at 3 hr [E]		
positions	8	Uimp	kV
rated impulse withstand voltage	1000	Ui	V
insulation voltage	16	Iu	A
rated thermal current uninterrupted duty	480	Icw	A
rated short-time withstand current (1s)	1,4	Icm	kA
rated short-circuit making capacity	5		kA
rated conditional short-circuit current			kA
max. cut-off current	1,2		W
max power dissipation			
method of operation	Independent manual operation		
minimum required dimensions of enclosures l x w x h *	124 x 47 x 74		mm
* see the drawing for the height of the switch. The number of layers H is:	4		
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		mm²
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			
nominal voltage (AC poles)	0	Ue	V AC
nominal current (AC poles)	0	Ie	A AC
number of DC poles	0		
auxiliary contact, nominal current 16A at 250 V, AC15	No auxiliary contact		
weight	221		g
accessories:	0		



95,1

### 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 could be subject to change without notice.