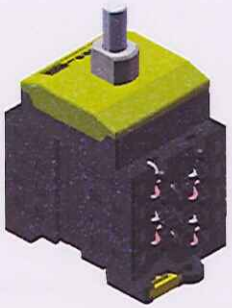
Data Sheet

Santon X-Type switch XA100.16DL4E-A

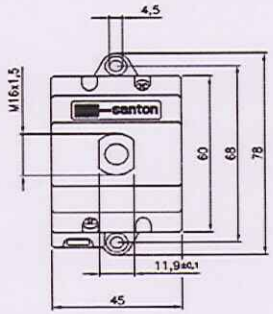
Switch disconnector for solar application according to IEC 60947-1&3 by Dekra (KEMA) and CCC (CQC)

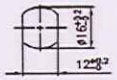


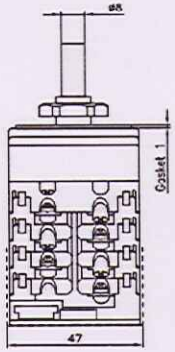
Terminals Scheme									
Layer No.	Front Side Left	Front Side Right	Symbol	Rear Side Left	Rear Side Right	On Positions 1	2	3	4
5	+2		—/—	+2		X			
4		-2	—/—		-2	X			
3	-1		—/—	-1		X			
2		+1	—/—		+1	X			
1			empty						

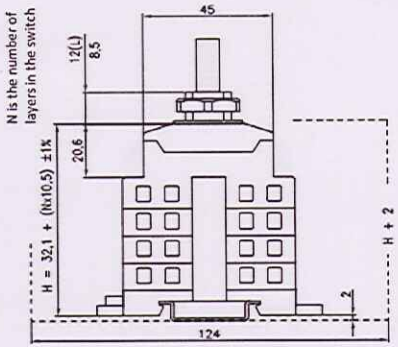
Contacts are made in "X" marked position.
Symbols for interconnection: [

Technical data	Symbol	Merit		Unit
rated operational voltage (DC poles)	Ue		1000	V dc
rated operational current (DC poles)	Ie		16	A dc
rated operational voltage (second rating DC poles, if requested)	Ue		850	V dc
rated operational current (second rating DC poles, if requested)	Ie		20	A dc
rated operational voltage (third rating DC poles, if requested)	Ue		800	V dc
rated operational current (third rating DC poles, if requested)	Ie		25	A dc
method of mounting	both bottom and single hole mounting [D]		long gland	
number of DC poles			4	
utilization category DC	DC-21B			
actuator	standard black [A]			
positions	OFF at 12 hr, ON at 3 hr [E]			
rated impulse withstand voltage	Uimp		8	kV
insulation voltage	Ui		1000	V
rated thermal current uninterrupted duty	Iu		25	A
rated short-time withstand current (1s)	Icw		750	A
rated short-circuit making capacity	Icm		1,4	kA
rated conditional short-circuit current			5	kA
max power dissipation			1,8	W
method of operation	independent manual operation			
minimum required dimensions of enclosures L x W x H*			124 x 47 x 84,5	mm
* see the drawing for the height of the switch. The number of layers N is:			5	
Enclosure depth from inside bottom to outside top, required for the switch and knob			117,5	mm
knob operation force		max.	1,4	Nm
tightening torque terminal screws M4 , min. - max.		1,5	1,7	Nm
tightening torque panel mounting nut, min. - max.		2,0	2,5	Nm
tightening torque M3 screw in the standard black knob, min. - max.		0,5	0,7	Nm
minimum required fine wire cross-section: IEC60947-1, table 9			4	mm2
ambient temperature allowed between			- 20 to + 70 °C	°C
storage temperature allowed between			- 40 to + 80 °C	°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	
rated operational voltage (AC poles)	Ue			V ac
rated operational current (AC poles)	Ie			A ac
number of AC poles				
minimum required fine wire cross-section: IEC60947-1, table 9				mm2
auxiliary contact(s), AC15			No auxiliary contact	
auxiliary contact ratings				
weight			254	g
accessories:	-			
	-			







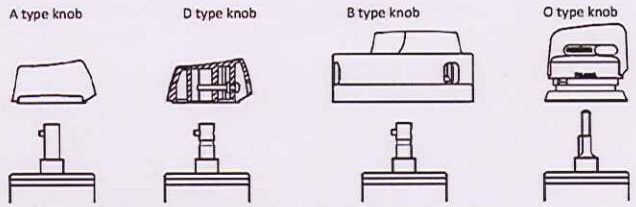


Mounting instructions

In the application all ratings have to be respected. When building the switch in an enclosure, the space envelope must be respected according to the applicable standards. The terminals, without interconnection can take copper wires up to 6 mm2. The recommended Spade Tongue Terminals may have a maximum width of 9 mm. For CSA and UL applications, registered Spade Tongue Terminals must be used. The registration numbers are UL: E13288 and CSA: LR7189 (for instance type 165015 from Tyco). 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.

Order 200002666 Project S25002613 Artikel XA100.16DL4E-A

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