

Switch disconnecter for solar application according to IEC 60947-3 by KEMA

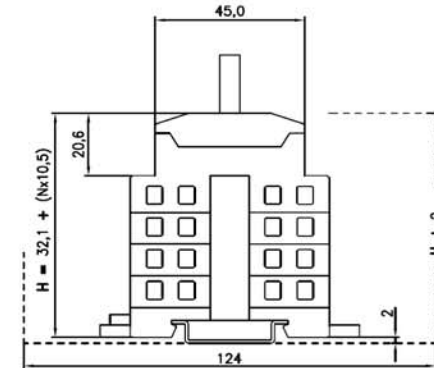
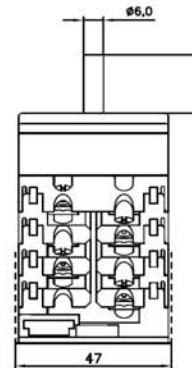
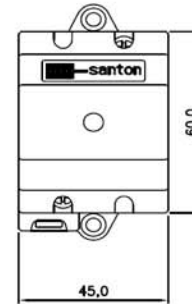


Terminals Scheme							
Layer No.	Front Side		Symbol	Rear Side		On Positions	
	Left	Right		Left	Right	1	2 3 4
			— / —				
			— / —				
			— / —				
			— / —				
			— / —				
			— / —				
			— / —				
			— / —				
3	-1		— / —	-1		X	
2		+1	— / —		+1	X	
1			empty				

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

Technical data	Symbol	Unit	Value
nominal voltage (DC poles)	Ue	V dc	1000
nominal current (DC poles)	Ie	A dc	16
nominal voltage (second rating DC poles, if requested)	Ue	V dc	850
nominal current (second rating DC poles, if requested)	Ie	A dc	20
nominal voltage (third rating DC poles, if requested)	Ue	V dc	800
nominal current (third rating DC poles, if requested)	Ie	A dc	25
method of mounting	DIN rail and or Base mounting [B]		
number of DC poles			2
utilization category DC	DC-21B		
actuator	standard black [A]		
positions	OFF at 12 hr, ON at 3 hr [E]		
rated impulse withstand voltage	Uimp	kV	8
insulation voltage	Ui	V	1000
rated thermal current uninterrupted duty	Iu	A	16
rated short-time withstand current (1s)	Icw	A	750
rated short-circuit making capacity	Icm	kA	1,4
rated conditional short-circuit current		kA	5
max power dissipation		W	0,7
method of operation	independent manual operation		
minimum required dimensions of enclosures L x W x H*		mm	124 x 47 x 63,5
* see the drawing for the height of the switch. The number of layers N is:			3
Shaft length	##	mm	
Enclosure depth from inside bottom to outside top, required for the switch and knob		mm	30,5
tightening torque terminal screws M4 , min. - max.	1,5	Nm	1,7
tightening torque M3 screw in the standard black knob, min. - max.	0,5	Nm	0,7
tightening torque for the nut on the single hole mounting knob, min. - max.	1,8	Nm	2,0
minimum required fine wire cross-section: IEC60947-1, table 9		mm ²	2,5
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			
nominal voltage (AC poles)	Ue	V ac	
nominal current (AC poles)	Ie	A ac	
number of AC poles			
auxiliary contact(s)	No auxiliary contact		
auxiliary contact ratings			
weight		g	194
accessories:	-		
	-		

Superior Switch Solutions

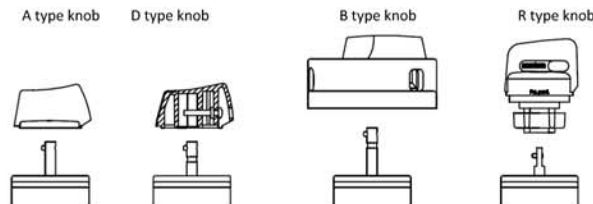


Mounting instructions

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.

Superior Switch Solutions