

## **Data Sheet** Santon X-Type switch **X60.25BU2E-B**

Suitable as photovoltaic disconnect switch in accordance with Article 690 of NFPA 70 (NEC) UL 508, including the requirements for PV application Certified according to UL 508 by UL

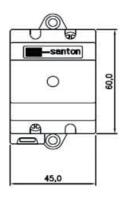


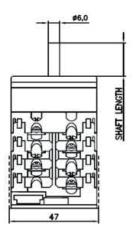


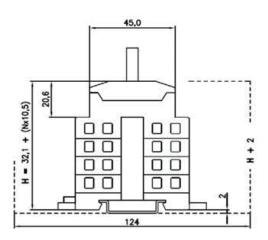
	Terminals Scheme											
Layer	Front Side			Rear Side		On Positions						
No.	Left	Right	Symbol	Left	Right	1	2	3	4			
			-/-									
			_/_									
			_/_									
			_/_									
			_/_									
			-/-									
			-/-									
			-/-									
			-/-									
			-/-									
3	-1		_/_	-1		Χ				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

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

Technical data	Symbol	Merit		Unit		
nominal voltage (DC poles)	U		600	V dc		
nominal current (DC poles)	I		25	A dc		
method of mounting	DIN rail an	d or Base mounting [B]	]			
number of poles, DC dubble pole switching			2			
utilization category DC	Photovolt	aic disconnect switch				
actuator	knob with	knob with padlocking, grey/grey [B]				
method of operation	independe	independent manual operation				
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	lu		25	Α		
rated short-time withstand current (1s)	Icw		250	Α		
suitable for use on a circuit capable of delivery not more than 5.000 rms symm	netrical Amper	es, 600 Vdc max, when	protected by fu	ses		
rated conditional short-circuit current			5	kA		
max power dissipation			10	W		
minimum required dimensions of enclosures L x W x H*			124 x 47 x 53	mm		
Shaft length				mm		
Enclosure depth from inside bottom to outside top, required for the switch ar	nd knob		86	mm		
* see the drawing for the height of the switch. The number of layers N is:			2			
tightening torque terminal screws M4, min max.		1,5	1,7	Nm		
		13	15	Lb.ln		
tightening torque M3 screw in the standard black knob, min max.		0,5	0,7	Nm		
		5	6	Lb.ln		
tightening torque for the nut on the single hole mounting knob, min max.		1,8	2,0	Nm		
		16	18	Lb.ln		
wire size, "Use 75°C Copper Wire Only", minimum required fine wire cross-sect	4	mm²				
			10	AWG		
ambient temperature allowed between			- 20 to + 70	°C		
storage temperature allowed between			- 40 to + 80	°C		
maximum relative humidity, without condensation at 20°C			90	%		
rated operational voltage (AC poles)	U			V ac		
rated operational current (AC poles)	I			A ac		
number of AC poles						
auxiliary contact			No auxilia	ry contac		
weight	-		157	g		
accessories:	-			J		







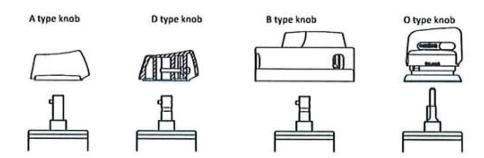
## **Mounting instructions**

In the application all ratings have to be respected. The switch is designed for Use on a Flat Surfface of a Type 1 Enclosure or equivelent. The minimum dimensiones of the enclosure must be respected according to the applicable standards. The position of the handle of the switch shall be marked with a Position Indication plate or direct on thesurface of the enclosure to guide proper indication. The "On" and "Off" position may be marked using the symbols "I" and "0" according IEC 417 Symbols 5007 and 5008. 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 are be subject to change without notice.