

USP

Passive potentiometer



The USP-X10K-NA is a passive potentiometer intended for controllers that need 0–10 VDC input. The desired output voltage is adjustable steplessly from 0 to the supply voltage (U_s) via a rotary knob. It is equipped with a switch (dry contact) for remote ON / OFF switching of external equipment.

Key features

- Potentiometer with stepless output voltage from 0 to U_s
- Switch at zero position for remote ON / OFF switching of external equipment

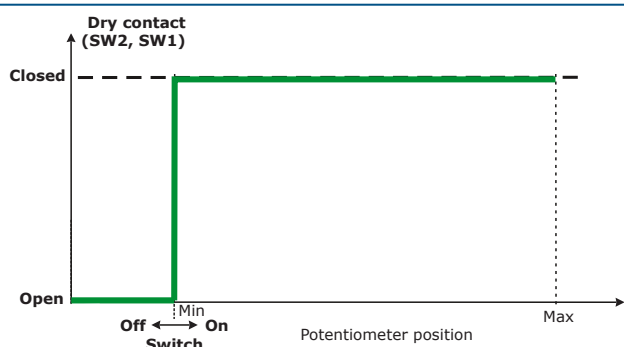
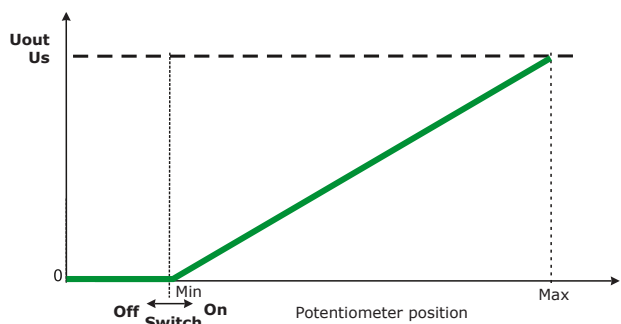
Technical specifications

Supply voltage (U_s)	max. 12 VDC	
Output voltage (U_{out})	0– U_s	
Potentiometer resistance	10 k Ω	
Built-in switch rating	4 A / 250 VAC or 10 A / 12 VDC	
Ambient conditions	Operating temperature	-5–65 °C / 23–149 °F
	Rel. humidity	5–85 % rH (non-condensing)
Storage temperature	-20–70 °C / -4–158 °F	

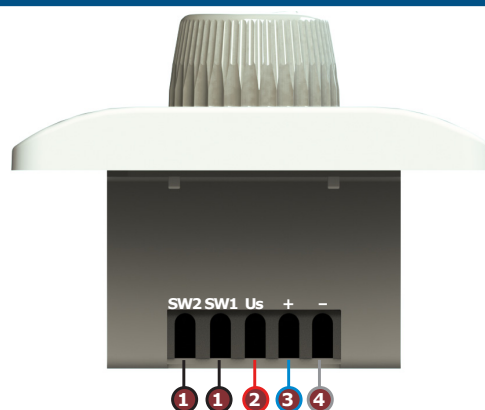
Area of use

- Ventilation control in buildings
- EC fans / motors control
- Stepless adjustment of controllers

Operational diagrams



Wiring and connections



1 - Black wires (SW2 and SW1)	Dry contact for remote switching of external equipment	
2 - Red wire (U_s)	Supply voltage (U_s)	
3 - Blue wire (+)	Output voltage (0– U_s)	
4 - Grey wire (-)	Ground	
Cable cross section	Dry contact	0,75 mm ² / AWG 18
	Ground, output voltage and supply voltage	0,50 mm ² / AWG 20

Standards

- WEEE 2012/19/EC
- RoHs Directive 2011/65/EC



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Settings

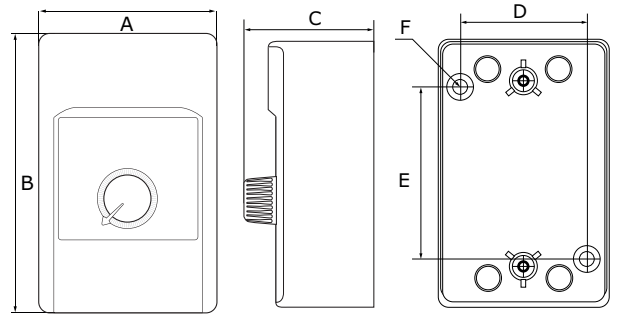


1 - Output voltage potentiometer



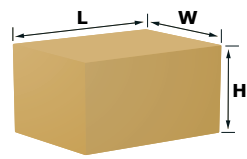
Adjusts the output voltage

Fixing and dimensions



A	B	C	D	E	F
70 mm / 2,76 "	115 mm / 4,52 "	58 mm / 2,28 "	51 mm / 2,01 "	80 mm / 3,15 "	2 x Ø 4,8 mm / 0,19 "

Packaging



Article code	Packaging	Length	Width	Height	Net weight	Gross weight
USP	Unit (1 pc.)	125 mm / 4,94 "	80 mm / 3,14 "	70 mm / 2,76 "	0,16 kg / 0,35 lb	0,22 kg / 0,49 lb
	Box (70 pcs.)	590 mm / 23,23 "	380 mm / 14,96 "	500 mm / 19,69 "	11,20 kg / 24,50 lb	16,63 kg / 36,66 lb