



MTV-1-010-CP

230 VAC potentiometer with min & max, dry contact

The MTV-1-010-CP potentiometer is developed to control equipment that needs a 1–10 VDC, 2–20 mA or 10–100 % PWM control signal. The potentiometer needs a supply of 230 VAC, and gives a stepless output signal. The minimum values can be adjusted within 1–7 VDC / 2–14 mA / 10–70 % PWM, and the maximum values are within 3–10 VDC / 6–20 mA / 30–100 % PWM. There is an additional switch on / off function (e.g. for controller remote on / off). The potentiometer is suitable for both inset (IP44) and surface mounting (IP54).

Key features

- Selectable output: 1–10 VDC, 2–20 mA or 10–100 % PWM
- Infinitely variable control of the output signal between 10 and 100 %
- Selectable minimum (Vmin) and maximum (Vmax) output by internal trimmers
- Built-in switch with on / off function (dry contact at off-position)
- Splashproof enclosure
- Inset or surface mounting

Technical specifications

Supply	230 VAC ±10 % / 50–60 Hz	
Output	1–10 VDC / 2–20 mA / 10–100 % PWM	
Vmin	1–7 VDC / 2–10 mA / 10–70 % PWM	
Vmax	3–10 VDC / 6–20 mA / 30–100 % PWM	
Dry contact (CS) max. switching current	4 A	
Load	1–10 VDC mode: ≥ 2 kΩ 2–20 mA mode: ≤ 500 Ω 10–100 % PWM mode: ≥ 2 kΩ	
On / off switch	CS - dry contact	
Protection standard	IP44 / IP54 (according to EN 60529)	
Ambient conditions	Temperature	0–40 °C
	Rel. humidity	100 % rH (non-condensing)



Area of use

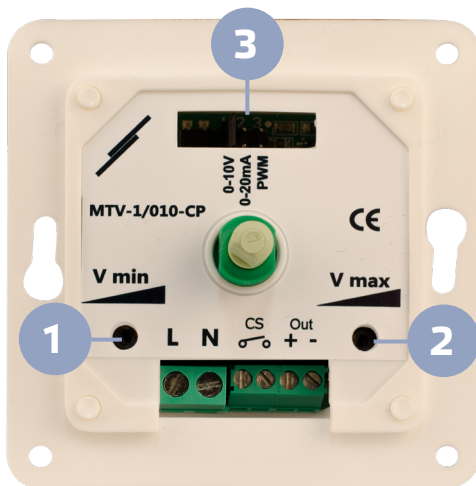
- A variety of applications where a 1–10 VDC, 2–20 mA or 10–100 % PWM control signal is required

Wiring and connections

L, N	Power supply (230 VAC ±10 % / 50–60 Hz)
Out (+, -)	Output voltage (1–10 VDC / 2–20 mA / 10–100 % PWM)
CS	Dry contact (for remote on / off)
Connections	Cable cross section: max. 1,5–2,5 mm ²

Standards

- Low Voltage Directive 2014/35/EC
- EMC Directive 2014/30/EC
- WEEE Directive 2012/19/EC
- RoHS Directive 2011/65/EC



Settings

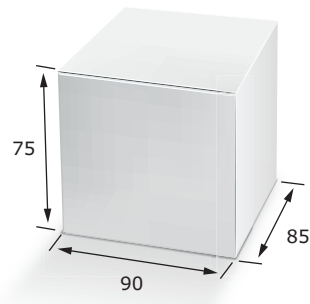
1 – Minimum speed / output trimmer, Vmin	1–7 VDC / 2–14 mA / 10–70 % PWM
2 – Maximum speed / output trimmer, Vmax	3–10 VDC / 6–20 mA / 30–100 % PWM
3 – Analog / modulating output mode selection jumper	1: 1–10 VDC / 2: 2–20 mA / 3: 10–100 % PWM



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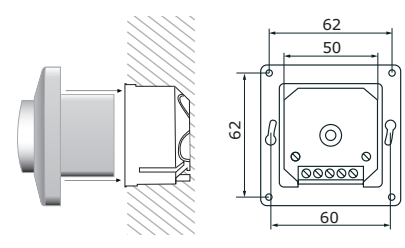
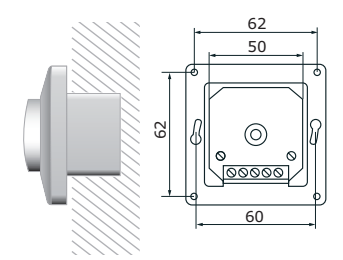
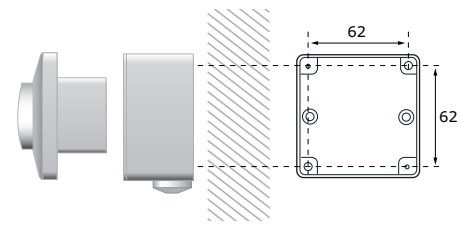
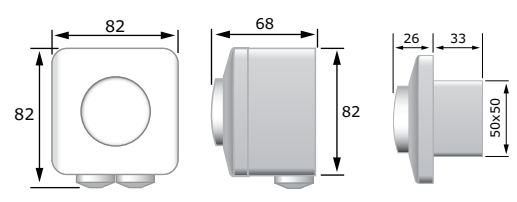
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Packaging



Article	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight	Gross weight
MTV-1-010-CP	Unit (1 pc.)	95	85	70	0,19 kg	0,21 kg
	Carton (10 pcs.)	492	182	84	1,84 kg	2,23 kg
	Box (60 pcs.)	590	380	280	11,04 kg	14,03 kg

Fixing and dimensions



Operational diagrams

