



MTPNG010-AT

24 V Potentiometer with Min. & Max. Settings

Description

The MTPNG010-AT potentiometer is intended for direct control of EC fans/motors and actuators. It requires a supply voltage of 24 VDC or 24 VAC and provides a stepless output signal that can be set by a rotary knob with an off position. The output range is adjustable via two internal trimmers between V_{min} (0–7 VDC) and V_{max} (3–10 VDC). Its splash-proof enclosure is suitable for both inset and surface mounting.

Key Features

- Infinitely variable control of the output voltage
- Adjustable minimum (V_{min}) and maximum (V_{max}) output by internal trimmers
- A splash waterproof enclosure
- Inset or surface mounting

Area of Use

- A suitable variety of applications where a DC control signal is required

Standards

- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU
- WEEE Directive 2012/19/EU
- Commission Delegated Directive (EU) 2015/863 (RoHS 3) of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances



Wiring and Connections



24 VAC / DC -	Supply voltage, 24 VAC or GND
24 VAC / DC +	Supply voltage, 24 VAC or +24 VDC
Vout -	Output signal, GND
Vout +	Output voltage, 0–10 VDC
Connections	Cable cross section: max. 2,5 mm ²

Warning! Never connect the input GND signal with the output GND signal.



Article Code

Article code	Supply voltage	Output	ON/OFF position
MTPNG010-AT	15–24 VAC $\pm$ 10 % 18–34 VDC	0, V_{min} – V_{max}	yes

Technical Specifications

Supply voltage	15–24 VAC $\pm$ 10% / 18–34 VDC
Output	0, V_{min} – V_{max}
Min. output voltage, V_{min}	0–7 VDC
Max. voltage output, V_{max}	3–10 VDC
Load	≥ 2 k Ω
Consumption	Supply: 24 VAC / ≤ 20 mA Supply: 24 VDC / ≤ 20 mA
Off-position	yes
Ambient conditions	
Temperature	–5–65 °C / 23–149 °F
Relative humidity	5–85 % rH (non-condensing)
Protection standard	IP44 / IP54 (according to EN 60529)

Settings

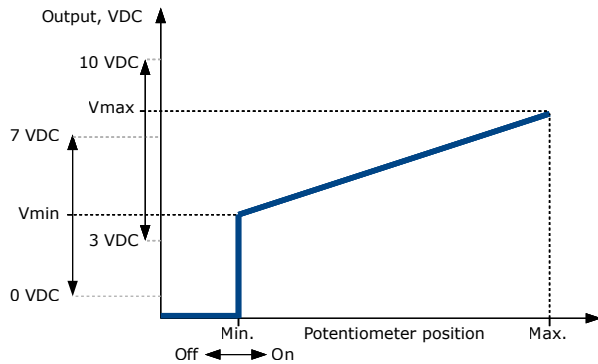
1. Minimum speed / output trimmer, V_{min}	Power supply (230 VAC $\pm$ 10% / 50–60 Hz)
2. Maximum speed / output trimmer, V_{max}	Output voltage (0–10 VDC / 0–20 mA / PWM)



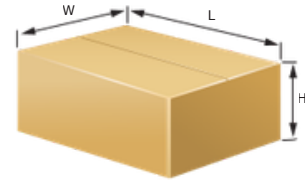
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Operational Diagram

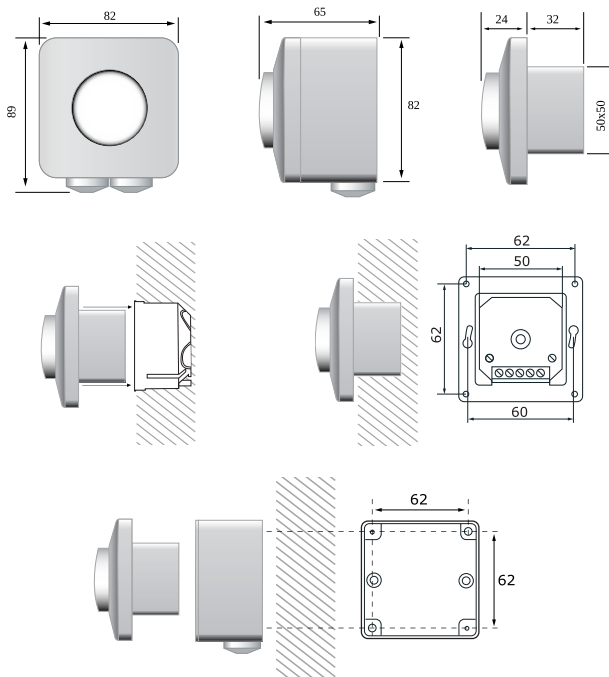


Packaging



Article code	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight [kg]	Gross weight [kg]
MTPNG010-AT	Unit (1 pc.)	85,5	95	70	0,15	0,17
	Carton (10 pcs.)	485	175	77	1,53	1,88
	Box (60 pcs.)	580	370	270	9,18	12,27

Fixing and Dimensions



Global Trade Item Numbers 14 (GTIN 14)

Article code	Unit	Carton	Box
MTPNG010-AT	5401003008898	5401003301388	5401003502051

