



MTPND

Potentiometer with Min. & Max. Settings

Description

These potentiometers control fans equipped with an EC motor. They are suitable for applications where a DC control signal is required. Their enclosures are splashproof and can be used both for inset and surface mounting. There are two versions: with and without off-position.

The potentiometers require a supply between 3 VDC and 15 VDC and provide an infinitely variable output signal between two internally selectable positions: V_{min} and V_{max} . The load must not be lower than 2 k Ω ($R_L \geq 2 \text{ k}\Omega$).

Key Features

- Infinitely variable control of the output voltage
- Stepless output voltage from 0 to U_s by rotary button
- A switch (dry contact) at minimum position for remote ON/OFF switching of external equipment
- A splash waterproof enclosure
- Inset or surface mounting

Area of Use

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

Wiring and Connections



Vin	DC supply voltage (3–15 VDC)
Vout	Output voltage (0,3–15 VDC / $R_L \geq 2 \text{ k}\Omega$)
Connections	Cable cross section: max. 2,5 mm ²

Settings

1. Minimum speed / output trimmer, V_{min}	10–70 % V_{in}
2. Maximum speed / output trimmer, V_{max}	30–100 % V_{in}



Article Code

Article code	Output	Off position
MTPND010-AT	0, V_{min} – V_{max}	yes
MTPND010-BT	V_{min} – V_{max}	no

Technical Specifications

	MTPND010-AT	MTPND010-BT
Supply (V_{in})	3–15 VDC	
Output	0, V_{min} – V_{max}	V_{min} – V_{max}
V_{min}	10–70 % V_{in}	
V_{max}	30–100 % V_{in}	
Load	$\geq 2 \text{ k}\Omega$	
Consumption	$\leq 10 \text{ mA}$ incl. load	
Off-position	yes	no
Ambient conditions		
Temperature	0–50 °C	
Relative humidity	< 95 % rH (non-condensing)	
Protection standard	IP44 / IP54 (according to EN 60529)	

Standards

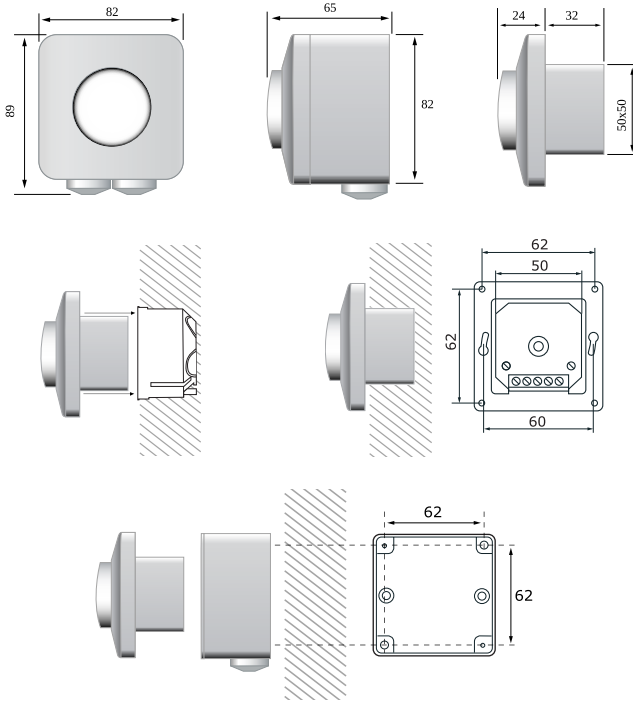
- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility (EMC) Directive 2014/30/EU
- WEEE Directive 2012/19/EU
- Commission Delegated Directive (EU) 2015/863 (RoHS 3) of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list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



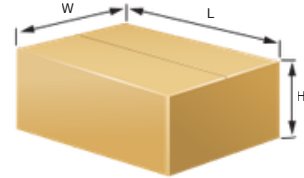
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Fixing and Dimensions



Packaging



Article code	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight [kg]	Gross weight [kg]
MTPND010-AT	Unit (1 pc.)	95	85	70	0,14	0,17
	Carton (10 pcs.)	492	182	84	1,37	1,81
	Box (60 pcs.)	590	380	280	8,22	13,15
MTPND010-BT	Unit (1 pc.)	95	85	70	0,14	0,17
	Carton (10 pcs.)	492	182	84	1,37	1,81
	Box (60 pcs.)	590	380	280	8,22	13,15

Global Trade Item Numbers 14 (GTIN 14)

Article code	Unit	Carton	Box
MTPND010-AT	5401003008867	5401003301357	5401003502020
MTPND010-BT	5401003008874	5401003301364	5401003502037

