

SMTND-AL

Control Switch



Description

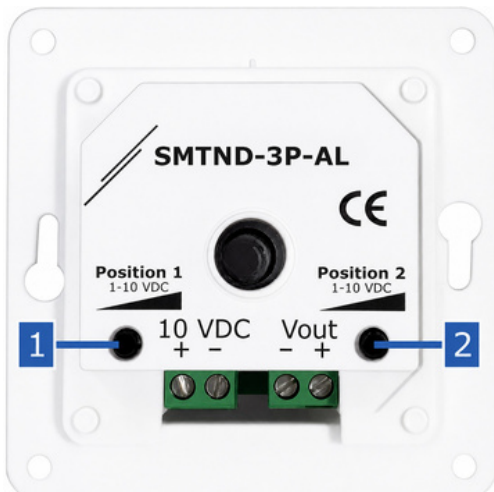
The SMTND-AL control switches are designed to control the speed of EC motors via a 0–10 VDC analogue input signal. The SMTND-AL divides the control signal into different output steps. Two output voltages can be adjusted to meet specific environmental requirements (switch positions 1 and 2). These voltages are expressed as a percentage of the supply voltage ($U_s = 10 \text{ VDC}$). Two article types are available: the SMTND-3P-AL without an OFF position and the SMTND-4P-AL with an OFF position. The splashproof enclosure makes the switches suitable for both inset and surface mounting in demanding environments (e.g. areas exposed to moisture).

Key Features

- Rotary knob for manual speed adjustment
- Three (SMTND-3P) or four (SMTND-4P) step output voltages
- Two selectable output voltages by trimmers
- Splashproof enclosure suitable for inset mounting or surface mounting in demanding environment

Technical Specifications

Protection standard	IP44 / IP54 (according to EN 60529)
Ambient conditions	
Temperature	-20–40 °C
Relative humidity	< 100 % rH (non-condensing)



Wiring and Connections

10 VDC (+, -)	Supply voltage: U_s 10 VDC
Minimum load	54 k Ω
Maximum load	86 k Ω
Connections	Cable cross section: max. 2,5 mm ²

Settings

1 - Trimmer 1	Adjusts the output voltage between 1–10 VDC at switch position 1
2 - Trimmer 2	Adjusts the output voltage between 1–10 VDC at switch position 2



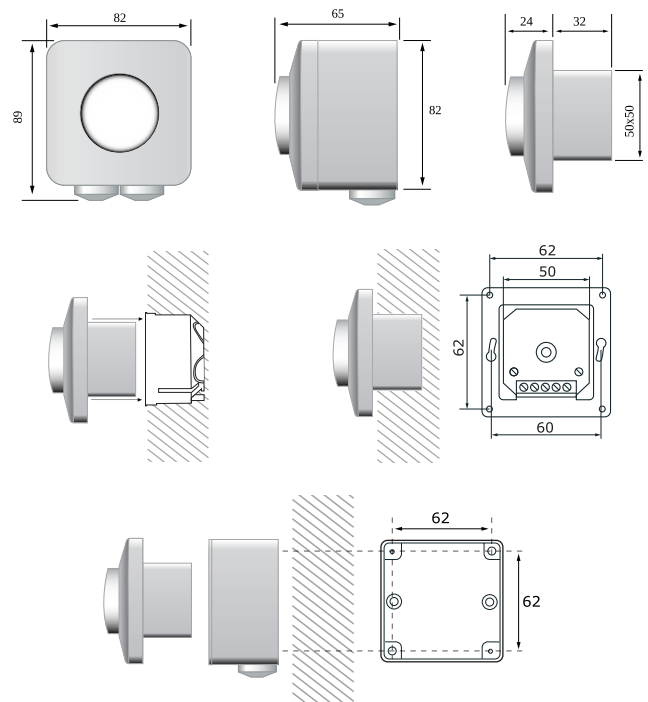
Article codes

Article code	Supply, U_s	Position 0	Position 1	Position 2	Position 3
SMTND-3P-AL	10 VDC	-	10–100 % U_s	10–100 % U_s	10 VDC
SMTND-4P-AL	10 VDC	0 VDC	10–100 % U_s	10–100 % U_s	10 VDC

Area of Use

- Speed control of EC fans in ventilation systems
- Voltage control where manual adjustment of 0–10 VDC signals is needed

Fixing and Dimensions



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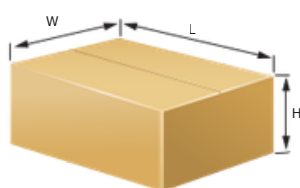


Standards

- 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



Packaging



Article code	Packaging	Length [mm]	Width [mm]	Height [mm]	Net weight [kg]	Gross weight [kg]
SMTND-AL	Unit (1 pc.)	85,50	95,50	70,50	0,15	0,17
	Carton (10 pcs.)	492	182	84	1,51	1,86
	Box (60 pcs.)	590	380	280	9,06	12,15
	Half pallet (960 pcs.)	1.200	800	1.290	144,96	212,20
	Pallet (1.680 pcs.)	1.200	800	2.160	253,68	359,80

Global Trade Item Numbers 14 (GTIN 14)

Article code	Unit	Carton	Box
SMTND-3P-AL	5401003014684	5401003302026	5401003502945
SMTND-4P-AL	5401003014691	5401003302033	5401003502952

