

PU / PA



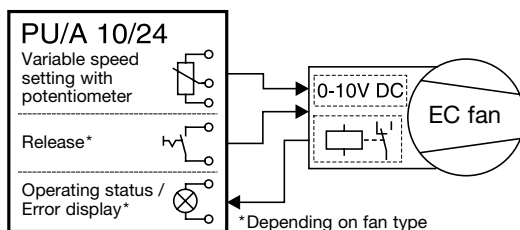
EC

SU / SA

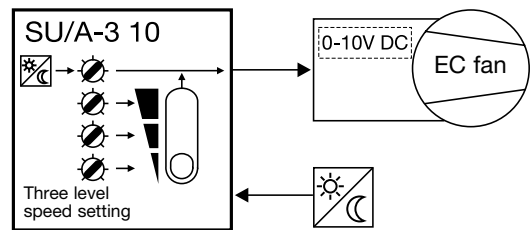


EC

Pictorial schematic PU / PA



Pictorial schematic SU / SA



■ Speed potentiometer PU/PA with additional functions Switch and LED

- **Area of application**
For direct control/setpoint specification for EC fans with a potentiometer input. Also with release switch and LED display for operating status (depending on the fan type equipment).

- **Control with potentiometer**
The potentiometer is directly connected to the potentiometer input on the fan control. This has a potentiometer power supply of e.g. 10 V DC and a setpoint input of 0–10 V DC.

- **Minimum voltage**
A second potentiometer is integrated in the PU/PA. The minimum voltage (min. 1.3 V) is continuously variable, so that a safe motor start-up is guaranteed at the lowest speed setting.

- **Release switch**
The rotary knob for the potentiometer is also a pressure switch which can be used to activate/deactivate a fan with release input (e.g. 24 V DC).

□ Light ring with LED

Optical indication of fan operating status. Changes from green (normal operation) to red (fault) for fans with operation signalling relay. Required supply voltage see technical data.

■ Product range

□ LED power supply 10 V

PU 10	Ref. no. 01734
Installation	in standard flush-m. box
Dim. mm	W 80 x H 80 x D 21 prot.

□ LED power supply 24 V

PA 10	Ref. no. 01735
Casing	Surf.-mounted installation, plastic, light grey
Dim. mm	W 80 x H 80 x D 65

□ LED power supply 24 V

PU 24	Ref. no. 01736
Installation, dimensions	see PU 10

□ LED power supply 24 V

PA 24	Ref. no. 01737
Installation, dimensions	see PA 10

■ Technical data for all types

Potentiometer	10 kOhm
(min. potentio. aprx. 7.9 – 16.5 kOhm)	
A potentiom. power supply of 10 V provides a control voltage 0 – 10 V DC.	
Min. volt. 1.3 – 6.7 V DC adjustable.	
LED supply voltage:	
10/24 V DC (P 10/24), min. 6 mA	
Perm. ambient temp.	0 to +40 °C
Protection category	IP40
Wiring diagram no.	1000

■ Three level switch SU/SA 10 V / 0–10 V

□ Area of application

Three level switch for flush-mounted or surface-mounted installation. Three level controlling of EC fans or frequency inverters with a 0–10 V DC control input.

□ Functions

Three different setpoint specifications can be issued via SU/SA. Each level is freely definable from 0–10 V DC via a separate potentiometer. The connection of a weekly timer (WSUP, WSUP-S, accessories) for switching from 3 level day operation to e.g. night operation is also possible. Night/reduced operation can also be adjusted via another potentiometer from 0–10 V DC.

■ Product range

□ Flush-mounted

SU-3 10	Ref. no. 04266
Install.	deep flush-m. box (D 65 mm)
Dim. mm	W 80 x H 80 x D 15 prot.

□ Surface-mounted

SA-3 10	Ref. no. 04267
Protection category	IP40
Casing	Surf.-mounted installation, plastic, white
Dim. mm	W 80 x H 80 x D 60

■ Technical data for all SU/SA types

Supply input:	10 VDC Ri=12.5 kOhm (safety extra-low voltage)
Internal consumption:	1.5 mA
Control output:	0 – 10 V DC either via switch or external switchover
Prot. category	IP30 when installed
Protection class	III
Wiring diagram no.	1022

■ References

If necessary, multiple fans can be connected in parallel to one speed potentiometer or three level switch depending on the fan type to be connected.