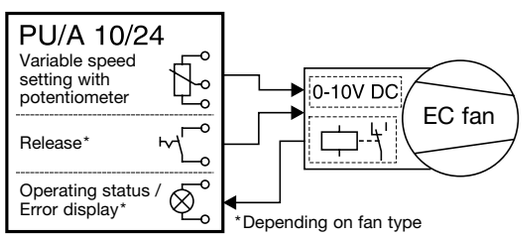
PU / PA



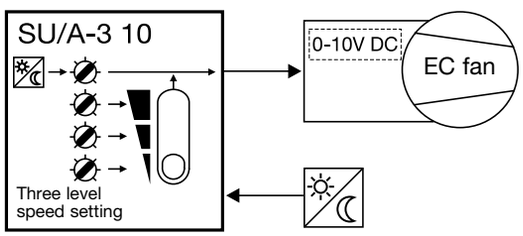
SU / SA



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 protr.

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

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.