

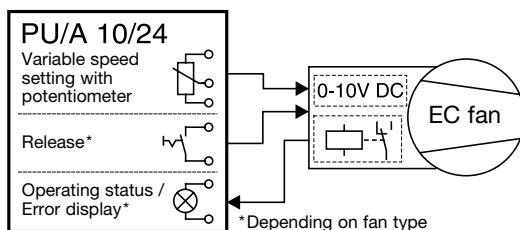
## PU / PA



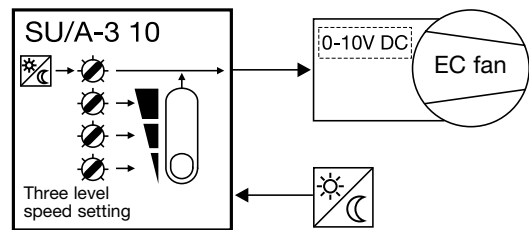
## SU / SA



### 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 prot.

- 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. apx. 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.