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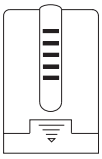
Schneider Electric

KNX valve drive with status LED and 2 inputs

Operating instructions



Art. no. MTN6921-0001

For your safety

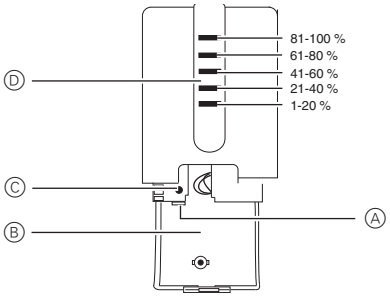
DANGER
Risk of fatal injury due to electrical current
All work on the device must only be carried out by trained and skilled electricians. Observe the country-specific regulations as well as the valid KNX guidelines.

Getting to know the valve drive

The motor-driven valve drive with the stroke display sets commands from a KNX room temperature controle unit.

- Operation mode: Every setting between two defined threshold values can be reached (continously).
- Suitable for the connection to the European Installation Bus KNX (direct connection without any seperate bus coupling unit) at residential and office space.
- Power supply comes from the bus.

Connections, displays and operating elements



Ⓐ Programming button
Ⓑ Closing cover (lockable)
Ⓒ Programming LED
Ⓓ Status LED: Valve opening in %

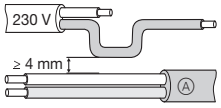
The display of the Status LEDs is dependend by the respective valve position.

Mounting the valve drive

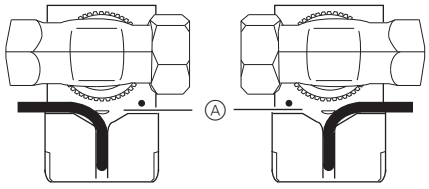
① Select the adapter ring (included) that fits, position and tighten it.
② Bring the valve drive into the mounting position (vertical) and push it onto the adapter ring until it snaps hearable into place.

Connecting the bus

WARNING
Risk of fatal injury from electrical current. The device can be damaged.
Safety clearance must be guaranteed in accordance with IEC 60664-1. There must be at least 4 mm between the individual cores of the 230 V supply cable and the SELV line Ⓐ.



① Bring the connection cable into the right mounting position: Push the cable into the prepared cable duct Ⓐ on the rear side.



② Connect the bus cable to the bus line (red +/ black -). Note the polarity!

The two free connection cables can be used as binary inputs for window contacts and/or presence detectors for example.

Connecting to window contact and/or presence detector

DANGER
Risk of fatal injury from electrical current. Equipment may be destroyed!
Applied voltages at the extension inputs E1 and E2 lead to voltage carryovers on the bus.

- Never connect voltage to the extension inputs E1 and E2.
- Never connect the extension inputs E1 and E2 to the extension inputs of other device.
- Connect only floating contacts to the extension inputs E1 and E2.

Connections:

E1	yellow/green	Window	Window
E2	withe/brown	-	Presence

To guarantee the proper functioning of the device, the maximum cable length of 5 m between the extension inputs E1 and E2 and the floating contact must not be exceeded.

Programming the physical address

The assignement of the physical address, the group address and the parameter settings can only be made using the ETS (first load the address and aftterwards the application!).

① Press the programming button: The programming LED lights up.
② Notice the physical address into the closing cover of the valve drive.

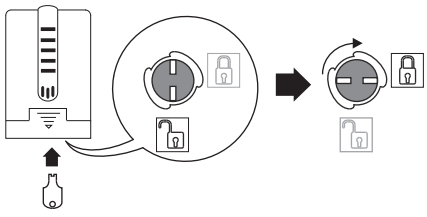
Automatic adjusting of the valve

While the automatic adjustment process is running (approx. 10 min) one of the three lower Status LEDs is flashing. After the process is finished only the forth top Status LED flashes.

① Connect the bus voltage.
② The automatic adjustment process starts running.

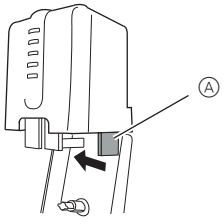
If no appliacation is loaded: The valve drive automatically opens to 25 % (the forth top Status LED flashes).

Anti-theft protection



Dismantling the valve drive

① Release the anti-theft protection.
② Open the closing cover of the valve drive.
③ Press the red lever Ⓐ to the left.



④ Deduct the valve drive from the adapter ring.

Technical data

Mains voltage:	Bus voltage
Run time:	< 20 s/mm
Set force:	max. 120 N
Operating temperature:	0 °C to +50 °C
Max. control stroke:	7.5 mm (linear movement)
Enclosed adapter rings:	Danfoss RA, Heimeier, MNG, Schlösser from 3/93, Honeywell, Braukmann, Dumser (distributor), Reich (distributor), Landis + Gyr, Oventrop, Herb, Onda
Detection of valve limit stops:	automatic
Liniarisation of the characteristic valve curve:	can be performed via software
Protection class:	III
Type of protection:	IP 21 according to EN 60529
Dimensions:	82x50x65 mm (HxWxD)

Schneider Electric Industries SAS

If you have technical questions, please contact the Customer Care Center in your country.

www.schneider-electric.com

This product must be installed, connected and used in compliance with prevailing standards and/or installation regulations. As standards, specifications and designs develop from time to time, always ask for confirmation of the information given in this publication.

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