The Electromotor Valve Drive ST/K 1.1 is a proportional valve drive for controlling heating valves via the ABB i-bus® EIB. The valve drive is mounted on thermostat valve bases. The control is carried out via a continuous EIB / KNX room thermostat.

The Electromotor Valve Drive ST/K 1.1 also has two binary inputs which can be used e.g. for the connection of a presence contact and/or window contact. The status of these inputs can be sent on the EIB / KNX.

The connection to the EIB / KNX is established via bus connecting terminal.

### Technische Daten

#### Power supply
- Operating voltage: 21 ... 30 V DC, via the EIB / KNX
- Power consumption typ.: 10 mA
- Power consumption via the EIB typ.: 240 mW / max. 350 mW

#### Operating and display elements
- Programming LED and button for entering the physical address
- 5 LEDs for display of the valve position:
  - no LED: 0 %
  - 1. LED: 1 % – 20 %
  - 2. LED: 21 % – 40 %
  - 3. LED: 41 % – 60 %
  - 4. LED: 61 % – 80 %
  - 5. LED: 81 % – 100 %

#### Drive
- Running time: < 20 s/mm
- Max. lift: 7.5 mm
- Actuating force: max. 120 N

#### Connections
- 6-core connecting cable for:
  - 2 binary inputs (per 2 cores) Presence and/or window contact (yellow/green) and (white/brown)
  - EIB / KNX (2 cores) Bus connecting terminal (black/red)

#### Type of protection
- IP 21 in accordance with EN 60 529

#### Protection class
- III in accordance with DIN VDE 0106 part 1

#### Ambient temperature range
- Operation: 0 °C ... + 50 °C
- Storage: -20 °C ... + 60 °C
- Transport: -20 °C ... + 60 °C
- Medium: max. + 100 °C

#### Design
- Compact device for placing on the valve base of thermostat

#### Housing, colour
- Plastic housing, white

#### Installation
- On valve base of thermostat

- Adapter rings supplied are suitable for:
  - Danfoss RA, Heimeier, MNG, Herb Schlösser 3/93, Honeywell, Onda Braukmann, Dumser, Reich (distributor), Landis+Gyr, Oventrop
- Detection of the valve end stop: Fully automatic

#### Dimensions
- 82.5 x 50 x 65 mm (H x W x D)

#### Weight
- 0.2 kg

#### Mounting position
- as required

#### Certification
- EIB- and KNX-certified
- in accordance with the EMC guideline and the low voltage guideline
### Application programs

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### Circuit diagram

1. Connection cable  
2. Thermostat valve base  
3. Adapter ring  
4. Valve connection  
5. Cable entry  
6. Valve opening display  
7. Programming button and LED  
8. Dismantling lever  
9. Labelling field  
10. Hinged lid  
11. Lock  
12. Key  

### Dimension drawing

- Width: 65 mm  
- Height: 82.5 mm  
- Depth: 50 mm
The programming is carried out with ETS from version ETS2 V1.2a onwards.

During maintenance work on the heater, the valve drive should always be dismantled and the valve should be securely closed (e.g. original protective cap). Otherwise, the valve could be opened unexpectedly by the thermostat or valve protection function and thereby cause water damage.

When downloading the application, the Electromotor Valve Drive ST/K 1.1 must already be mounted on the valve as otherwise no adaptation can take place.

If an already adapted device is placed on another valve, the adaptation must be carried out again by downloading the application.