



ABB i-bus® EIB / KNX

Electromotor Valve Drive, REG ST/K 1.1, 2CDG 120 004 R0011



2CDC 071 356 F0004

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

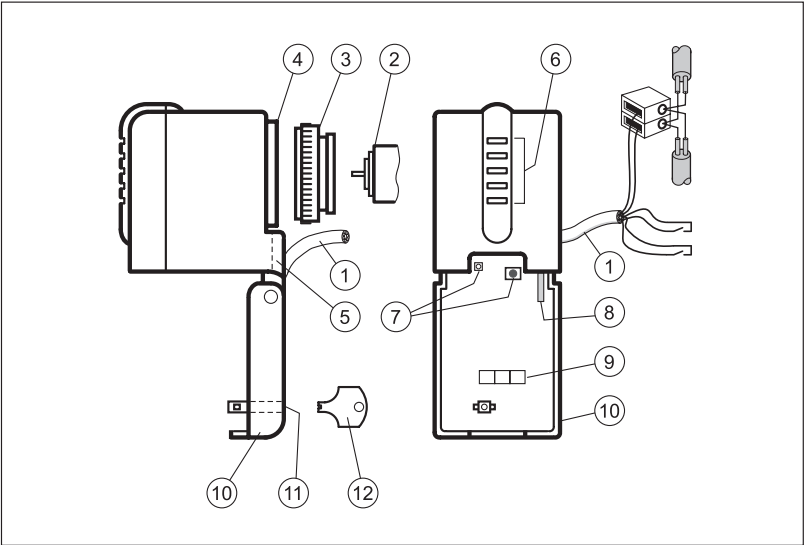
Power supply	– Operating voltage	21 ... 30 V DC, via the EIB / KNX
	– Power consumption	typ. 10 mA
Operating and display elements	– Power consumption via the EIB	typ. 240 mW / max. 350 mW
	– Programming LED and button	for entering the physical address
	– 5 LEDs	Display of the valve position:
		no LED: 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	
CE norm	– in accordance with the EMC guideline and the low voltage guideline	

ST/K 1.1

ST/K 1.1

Application programs	Number of communication objects	Max. number of group addresses	Max. number of associations
Valve Drive Continuous /1	8	18	18

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

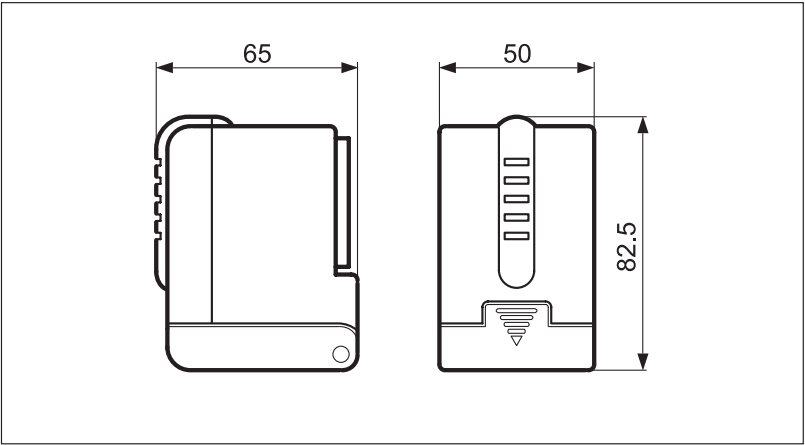




ABB i-bus® EIB / KNX

Electromotor Valve Drive, REG ST/K 1.1, 2CDG 120 004 R0011

Note

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.

9

9

ABB i-bus® EIB / KNX

Electromotor Valve Drive, REG
ST/K 1.1, 2CDG 120 004 R0011

9

9

9

ST/K 1.1

Page 4 of 4
STK_11_TD_EN_V1-0
2CDC 508 038 D0201

ST/K 1.1