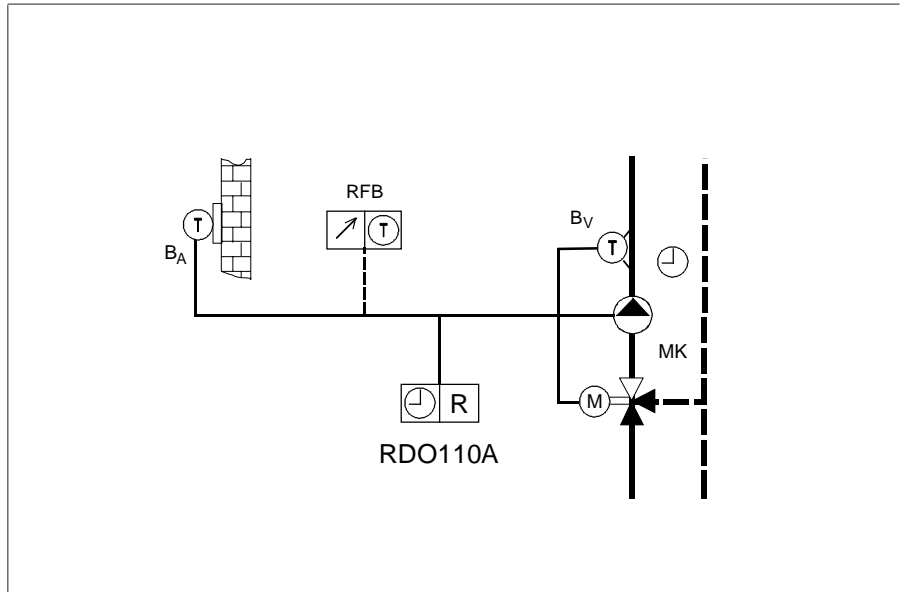


Application 01

Mixing valve-heating circuit
(3-point regulation)



Application

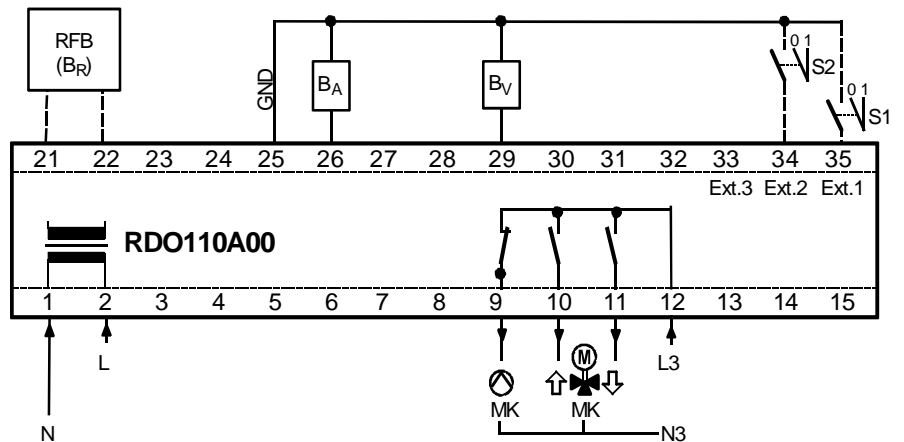
Mixing valve-heating circuit for outside driven and/or room temperature driven control of the flow temperature. With **3-point regulation** for the actuator.

Hint

Circuit for floor heating : room temperature controlled regulation is forbidden !

Installation / wiring diagram

Wire according to application diagram or total current flow plan. Connection through specialists according to local regulations. The temperature sensor- and remote control-connections to the controller are supplied with low voltage protection. It is advantageous to lay these separate from the power supply cables.



S1 : External standby heating (switching off the heating operation)

0 = Controller operation mode not influenced

1 = Heating blocked, frost protection active

S2 : External prolonged "reduced" room temperature

0 = Controller operation mode not influenced

1 = The room set value "reduced*" is active

Ext.3 : Mixing valve circuit configuration (pin 33)

Open -> actuator with 3 point regulation is used ; mixing valve



Parameter list

Parameter	Adjustment	Factory	Min.	Max.	Installation value	Dim.
Mixing valve-heating circuit						
control with PI-characteristic		3-point				
mixing valve running time	fixed	4	3	5		min
slope mixing valve-heating circuit (S)	Potentiometer $\frac{\%}{\%}$	1	0,2	3		
heating curve fixed-point	fixed	20				°C
overrun time heating circuit pump	fixed	4				min
summer operation interval heating circuit pump	fixed	on				
Values						
set value room temperature "normal"	Potentiometer	20	14	26		°C
set value room temperature "reduced" (= f[room temp."normal"])	Potentiometer	-6	-2	-10		K
set value room temperature "frost protection"	fixed	5				°C
insert point of automatic day heating limit	f[S and room influence]					
system frost protection temperature (= f[outside temperature])	fixed	1				°C
room influence (B _A &B _R : room temperature influence)	fixed	25				%
(only B _R : room temperature regulation)	fixed	150				%

Pos	Unit	Type	Pcs:
	We recommend: Heating controller DOMOTESTA Heating controller DOMOTESTA	Daily clock, with spring reserve; LED indication Weekly clock, with spring reserve; LED indication	RDO110A000 RDO110A002
B _A	Outside temperature sensor	10kΩ NTC; IP40; Screw terminal	FT12A
B _V	Clamp-on temperature sensor - strap for clamp-on sensor Immersion temperature sensor	1kΩ PTC; IP40; Screw terminal 1kΩ PTC; IP40; Screw terminal	FT1A ZB126 FT2A
RFB	Room remote control Room remote control	like RFB411A with new case Wall mounting; 10kΩ NTC Room set value correction; Program switch ("normal"/"Auto"/"reduced")	RFB410A RFB411A
B _R	Room sensor Room sensor	like RFT016A02 with new case Wall mounting; 10kΩ NTC (white)	RFT410A RFT016A02
	Connector strip for AMP Connector strip with screw terminals Base-plate 1 Accessory for base plate	2x15 terminals; without AMP-knife 2x15 terminals; wire cross section 2x1,5mm ² with screw connector strip 2x15 Connection area expansion for cable glands	RZB500A RZB510A RZB520A RZB521A
RFV	Detector multiplier	230VAC; Sensor-Inputs : 1xNTC; 3xPTC max. 5 controllers per output connectable)	RFV400A
MK	Three-port slipper valves Four-port slipper valves Control motor for slipper valves	Various diameters ; max. 6 bar; 110°C Various diameters ; max. 6 bar; 110°C Torque 10 Nm; 280s; 230VAC (with universal mounting set for Elesta slipper valves)	H3G.../H3F... H4G.../H4F... NR230-22B
	Valves	On request	

