

RAP 80 F901: Snap-action relay

Variable relay used either to put a system under pressure or to vent it in accordance with a pneumatic signal.

Housing of thermoplastic; front plate with setpoint adjuster, embossed with connection diagram and description of operation. Control action can be changed over (factory setting: A). Suitable for mounting on walls or rails (as per C EN 50024, C EN 50022; see *Accessories*). Compressed-air connection Rp 1/8 female thread.



T03048



Y03182

Type	Description	Air output	Air consumption	Weight [kg]
RAP 80 F901	snap-action relay	400 l _r /h	6 l _r /h	0.15
Supply pressure ¹⁾	1.3 bar ± 0,1	Permissible ambient temp.		0...55 °C
Input pressures	0...1.4 bar	Connection diagram		A02894
Output pressure	0...1.4 bar	Dimension drawing		M297107
Setpoint X _S	0...100%	Fitting instructions		MV 3281
Switching difference	0.04 bar (fixed)			

Accessories

0296936 000* Fixing bracket for rail EN 50022 35 × 7.5 and 35 × 15

¹⁾ Dimension drawing or wiring diagram are available under the same number

1) See Section 60 on regulations concerning the quality of supply air, especially at low ambient temperatures.

Operation

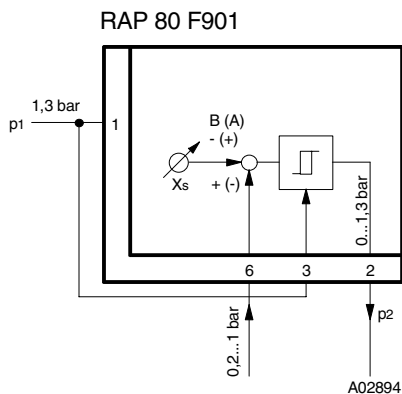
Control action A (factory setting)

If the pressure at connection no. 6 is higher than the setpoint, then the pressure is transmitted via connection no. 3. If it is lower, then the output pressure at connection no. 2 is vented.

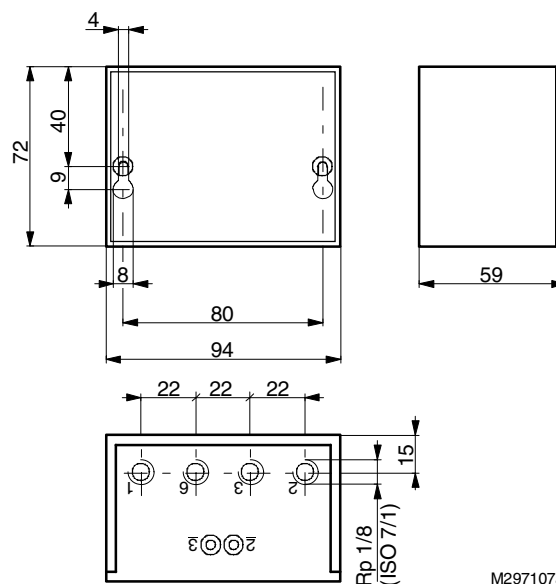
Control action B (change-over option)

If the pressure at connection no. 6 is lower than the setpoint, then the pressure is transmitted via connection no. 3. If it is higher, then the output pressure at connection no. 2 is vented.

Connection diagrams

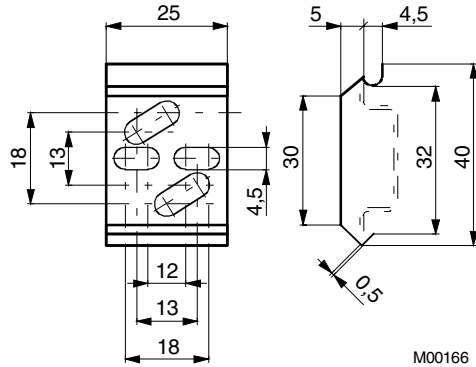


Dimension drawing



Accessories

296936

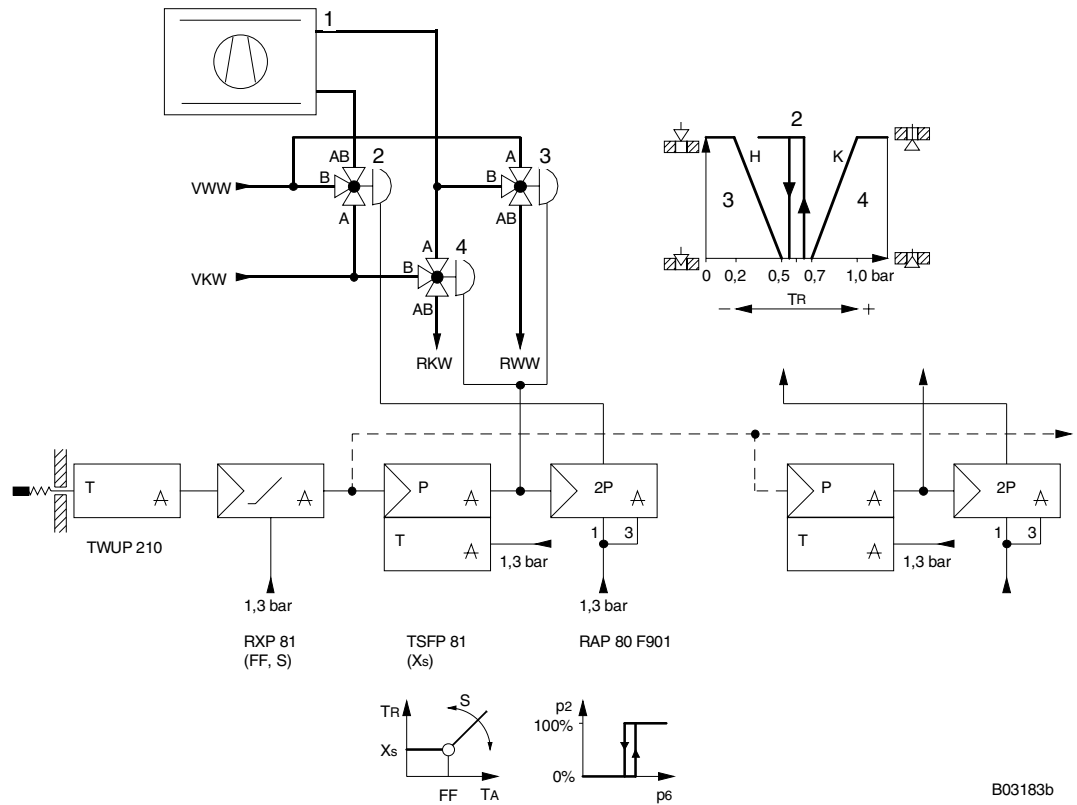


M00166

Example of use

Pneumatic individual-room temperature control: continuous control of room temperature in accordance with the outside temperature (fixed-value + schedule control).

Application: ventilator and jet-convector plant with common heat exchanger; four-pipe system.



B03183b

- 1 Induction device
- 2 Pneumatic three-way unit valve
BH 18 P..., B-AB normally open;
full range 0.3 – 0.9 bar
- (change-over valve)
- 3 Pneumatic three-way unit valve
BH 11 P..., B-AB normally open;
partial ranges 0.2 – 0.5 bar
- 4 Pneumatic three-way unit valve
BK 15 P..., A-AB normally closed;
partial ranges 0.7 – 1.0 bar

- H = heating
- K = cooling
- VWW flow } warm water
- RWW return }
- VKW flow } cold water
- RKW return }
- S = slope, setpoint shift
- FF = shift starting point, setpoint of scheduling relay
- X_S = setpoint
- T_A = outside temperature
- T_R = room temperature