

## RPJP: PI relay

### Areas of application

Pneumatic control in combination with appropriate transducers of temperature, pressure, differential pressure, humidity and flow rate.

### Features

- Conversion of a proportional (P) controller into a proportional integral (PI) controller.
- Controller front panel is printed with circuit diagram for rapid identification of function
- Reversible control action
- Thermoplastic housing suitable for wall or top-hat rail mounting
- Compressed air connections with Rp 1/8" female thread
- Complies with directive 97/23/EC Art. 3.3 on pressure equipment

### Technical description

- Supply pressure 1.3 bar  $\pm$  0.1
- Two input signals
- One output signal



T03075



Y03177

Type	Description	Air output	Air consumption <sup>1)</sup>	Weight kg
<b>RPJP 80 F001</b>	PI function	400 l <sub>n</sub> /h	27 l <sub>n</sub> /h	0,2
Supply pressure <sup>2)</sup>	1,3 bar $\pm$ 0,1	Permissible ambient temp.		0...55 °C
Input pressure	0,2...1,0 bar	Connection diagram		<a href="#">A02885</a>
Output pressure	0,2...1,0 bar	Dimension drawing		<a href="#">M297107</a>
Setpoint X <sub>S</sub>	0...100%	Fitting instructions		<a href="#">MV 3254</a>
Setpoint remote adjustment	0...100%			
Reset time	0,2...3 min			
with accessory 297277	3...6 min			

### Accessories

- 0296936 000\*** Fixing bracket for rail EN 60715, 35 × 7,5 and 35 × 15  
**0297103 000** Bag of ten scales, for use according to transducer  
**0297113 000\*** Manometer bracket for fitting two XMP includes kit; MV 3255  
**0297091 000\*** Cover for spare apertures (for manometers), when 0297113 is used  
**0297277 000** Resistor and scale for increasing the reset time

<sup>\*)</sup> Dimension drawing or wiring diagram are available under the same number

1) Without transducer. Air consumption for transducer: an additional 33 l<sub>n</sub>/h for connection 3

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

### Operation

The change of input pressure occurring at connection 3 is transferred to connection 2.

The setpoint and reset time can be set at the relay.

Control action A (factory setting): rising input pressure produces rising output pressure.

Control action B (reversible): rising input pressure produces falling output pressure.

A variable pressure applied to connection 6 allows remote adjustment of the setpoint. The in-built set-point adjuster then acts as a minimum limiter. There is an integrated restrictor (Ø 0,2 mm) for supplying the transducer.

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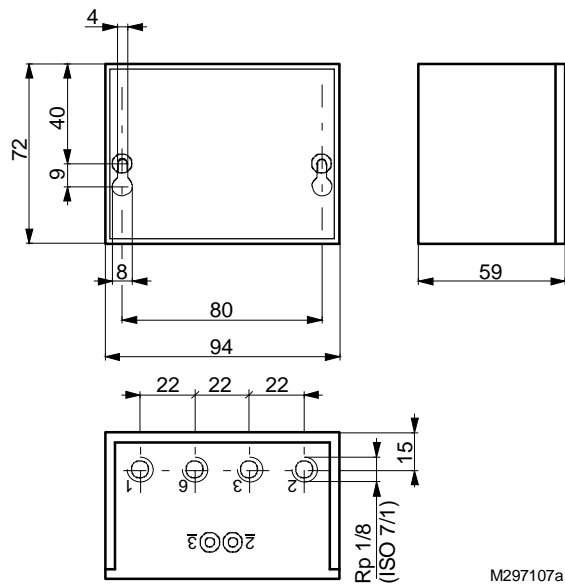
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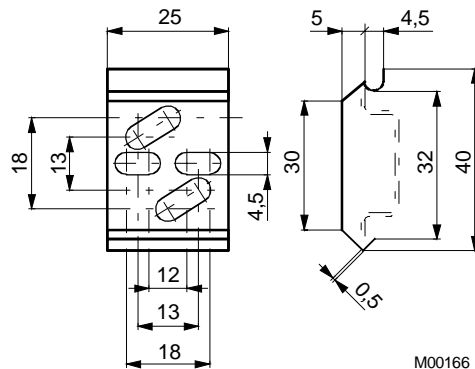
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Dimension drawing

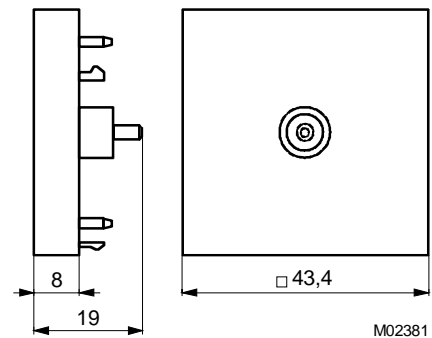


Accessories

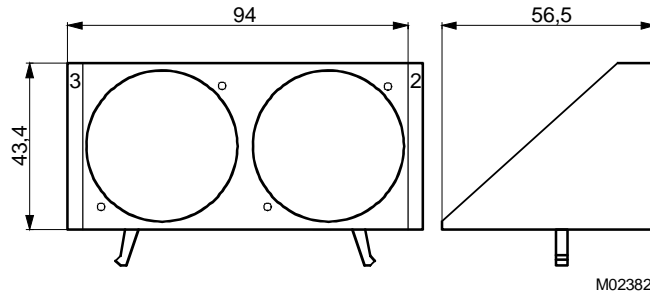
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