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 ± 0.1
- Two input signals
- One output signal

	Description	Air output	Air consumption ¹⁾	Weight kg
RPJP 80 F001	PI function	400 l _n /h	27 l _n /h	0,2
Supply pressure ²⁾ Input pressure	1,3 bar ± 0,1 0,21,0 bar		Permissible ambient temp.	055 °C
Output pressure	0,21,0 bar		Connection diagram	A02885
Setpoint X _S	0100%		Dimension drawing	M297107
Setpoint remote adjustm Reset time with accessory 29727	0,23 min		Fitting instructions	MV 3254

0297091 000*	Cover for spare apertures (for manometers), when 0297113 is used

- **0297277 000** Resistor and scale for increasing the reset time
- *) Dimension drawing or wiring diagram are available under the same number

Without transducer. Air consumption for transducer: an additional 33 l_n/h for connection 3

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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.

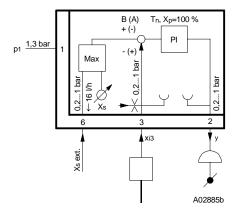
The setpoint and reset time can be set at the relay.

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 setpoint adjuster then acts as a minimum limiter. There is an integrated restrictor (\emptyset 0,2 mm) for supplying the transducer.

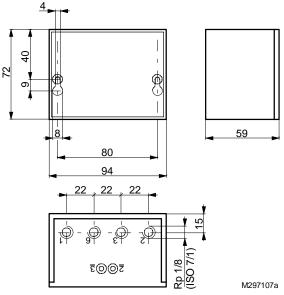
Connection diagram



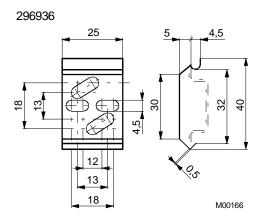


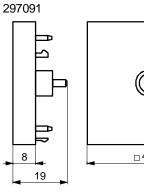


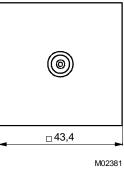
Dimension drawing

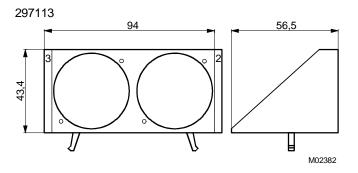


Accessories









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