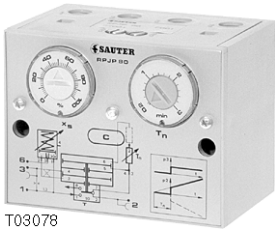
RPJP 80: PI relay



T03078

Used for converting a proportional control system (P) into a proportional-integral control system (PI); or used as a PI controller with fixed P-band (100%) in conjunction with the appropriate transducers for the control of temperature, humidity, pressure and flow. Conforms to the regulations on pressure equipment (97/23/EG Art. 3.3).
Housing of thermoplastic; front plate with adjusters for setpoint and reset time, inscribed with connection diagram and description of operation settings are made using a coin and the %-scale; control action can be changed over (factory setting is A). Suitable for mounting on walls or rails (as per C EN 50024, C EN 50022; see *Accessories*). Compressed-air connection Rp ⅛ female thread; measuring connections M4.

Type	Description	Air output	Air consumption [1]	Weight kg
RPJP 80 F001	PI function	400 l_n/h	27 l_n/h	0.2

PI
Y03177

Supply pressure [2]	1.3 bar ± 0.1	Permissible ambient temp.	0...55 °C
Input pressure	0.2...1.0 bar		
Output pressure	0.2...1.0 bar	Connection diagram	A02885
Setpoint X_S	0...100%	Dimension drawing	M297107
Setpoint remote adjustment	0...100%	Fitting instructions	MV 3254
Reset time	0.2...3 min		
with accessory 297277	3...6 min		

Accessories

0296936 000* Fixing bracket for rail EN 50022, 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

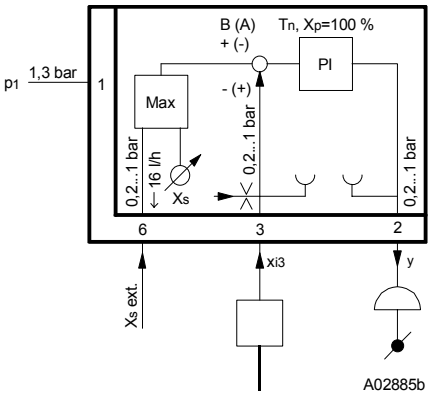
*) Dimension drawing or wiring diagram are available under the same number

1) Without transducer. Air consumption for transducer: an additional 33 l_n/h for connection 3
2) See Section 60 on regulations concerning the quality of supply air, especially at low ambient temperatures.

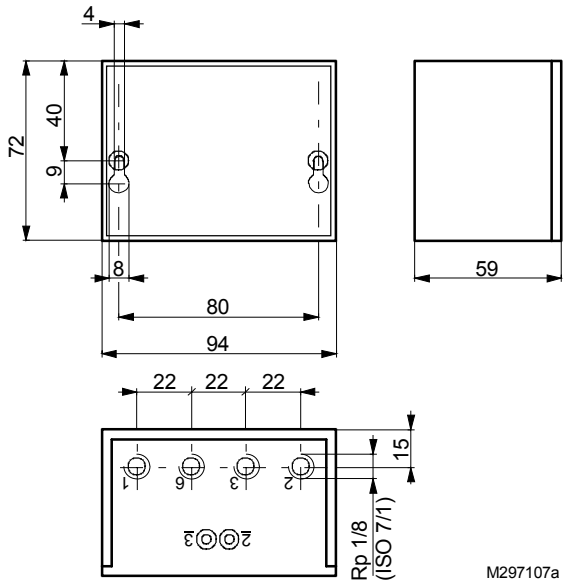
Operation

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 setpoint adjuster then acts as a minimum limiter. There is an integrated restrictor (Ø 0.2 mm) for supplying the transducer.

Connection diagram

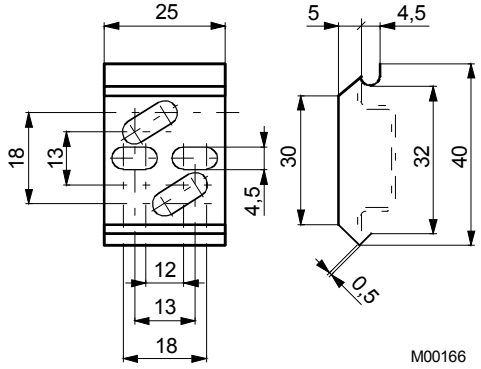


Dimension drawing



Accessories

296936



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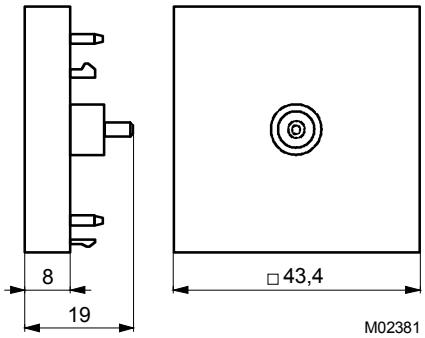

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