

## RDP 80: Averaging relay

Used for forming the average of two pressure signals. Conforms to the regulations on pressure equipment (97/23/EG Art. 3.3).

Housing of thermoplastic; front plate embossed with connection diagram and description of operation. Suitable for mounting on walls or rail (as per C EN 50024, C EN 50022; see *Accessories*). Compressed-air connection Rp 1/8 female thread; measuring connections M4.

| Type                          | Description     | Air output                | Air consumption <sup>2)</sup> | Weight kg               |
|-------------------------------|-----------------|---------------------------|-------------------------------|-------------------------|
| <b>RDP 80 F001</b>            | averaging relay | 400 l <sub>n</sub> /h     | 4 l <sub>n</sub> /h           | 0.15                    |
| Supply pressure <sup>1)</sup> | 1.3 bar ± 0,1   | Permissible ambient temp. |                               | 0...55 °C               |
| Input pressure                | 0...1.4 bar     | Connection diagram        |                               | <a href="#">A02893</a>  |
| Output pressure               | 0...1.4 bar     | Dimension drawing         |                               | <a href="#">M297107</a> |
|                               |                 | Fitting instructions      |                               | MV 3252                 |

### Accessories

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

**0297113 000\*** Manometer bracket for fitting two XMP includes kit; MV 3255

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

\*) 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.

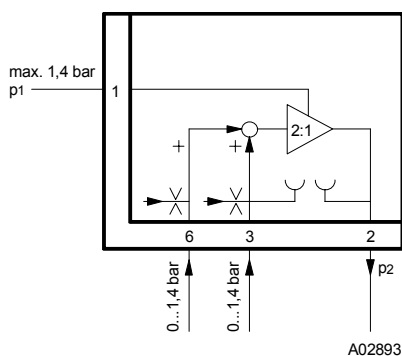
2) Without transducer. Air consumption for transducer: an additional 33 l<sub>n</sub>/h each for connections 3 and 6.

### Operation

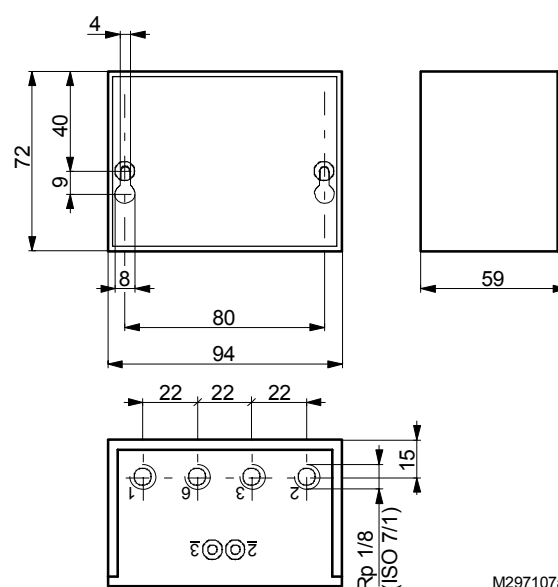
The relay transmits the average value of two pressure signals  $\left(\frac{p_3 + p_6}{2}\right)$

When the sum of the input pressures is rising, the output pressure also rises; conversely, falling input pressure produces falling output pressure. A variable pressure of 0 to 1.4 bar can also be supplied to connection 1; this provides maximum limitation of the output pressure, preventing it from ever exceeding the pressure at connection 1. There are two integrated restrictors (Ø 0.2 mm) for supplying the transducer.

### Connection diagram



### Dimension drawing



T03051



Y03179

Accessories

