

SAR: Snap Acting Relay

The Snap Acting Relay (model SAR) is a narrow-band pneumatic controller with an adjustable setpoint. Pressure in the input chamber opposes the load on the adjusting spring. Whenever this input pressure exceeds the spring setting, the input signal seat will be closed and the open supply seat will allow full supply pressure to pass directly to the output. Conversely, whenever the input pressure is below the spring setting, the supply seat will be closed and the signal seat will be open. The output, in this case, will be equal to the signal. Generally used for the input signal of pneumatic controlled positioners.

Adjusting screw for enhanced safety



Key features

- > Suitable for:
 - Standard, offshore, sandstorm and copper-free ambient conditions
 - Single and double acting actuators
 - Low and high ambient temperature

Benefits

- > Compact design
- > Lockable adjusting screw
- > Adjusting screw safety design
- > Precise switching pressure and low hysteresis

Technical specifications

Housing materials

Anodized aluminium

Operating temperature

-20°C to 70°C

Feeding connections

1/4" NPT

Pilot signal connection

1/8" NPT

Operating pressure

P min = 1.4 bar

P max = 2.5 bar

Design pressure = 10 bar

Output connections

1/4" NPT

Weight

4 kg

Dimensional drawing

