

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
- > Low and high ambient temperatures
- > Single and double acting actuators

Benefits

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

Technical specifications

Housing materials
Anodised aluminium

Pilot signal connection
1/8" NPT

Output connections
1/4" NPT

Operating temperature
-20°C to 70°C (-4°F to 158°F)

Operating pressure
P min = 1.4 bar
P max = 2.5 bar
Design pressure = 10 bar

Weight
4 kg

Feeding connections
1/4" NPT

Dimensional drawing

