

EFS-05S piston flow switch

Stainless steel flow switch | Product information and installation

Operating principle

The switch detects flow or flow stoppage in a pipeline and supplies a switching signal for system monitoring and protection. A magnetic ring is fitted inside the piston. Fluid pressure moves the piston until the magnet reaches the reed-switch sensing position, causing the switch to operate.

The piston/reed arrangement provides repeatable switching for equipment applications. Selected piston-flow-switch configurations allow the reed-switch operating position to be adjusted to change the flow signal point.

Technical parameters

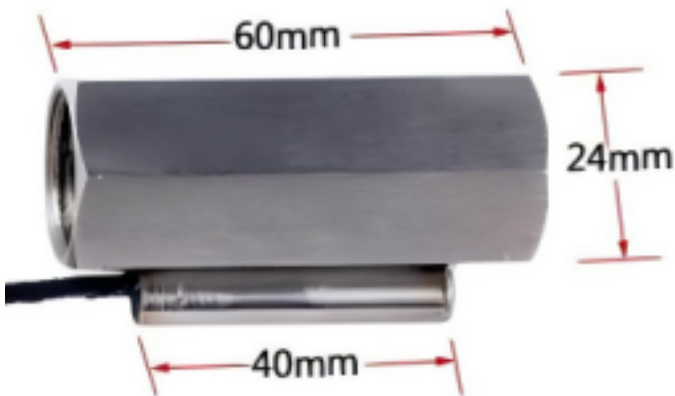
Parameter	EFS-05S
Housing material	Stainless steel
Operating temperature	–20°C to 125°C
Liquid medium	Clean water or other clean compatible liquids
Resistive load current	1.5A
Maximum switching current	0.8A
Switching voltage	250VDC
Switching capacity	50VA
Maximum working pressure	300psi
Contact form	SPST
Set flow	0.75–3L/min
Set-flow accuracy	±10%
Maximum-flow specification	5–15L/min at a 10psi pressure drop
Mass	124g

The load-current and switching-current limits are different ratings. Apply the switching voltage, current and capacity limits together for the connected circuit.

Dimensions and installation

Reference dimensions: illustrated female-port version

Dimension	Value
Body length	60mm
Body width shown	24mm
External sensor section length	40mm
Port diameter shown	Ø19mm
Thread depth at each end	11.3mm



Identify inlet and outlet



Inlet



Outlet

Installation orientation

Horizontal, sensor above the pipe: keep the pipeline completely full so that the sensing section contacts the liquid rather than air.

Inverted, sensor below the pipe: keep the bottom of the pipeline free from sediment that could cover the sensing section and prevent adequate liquid contact.

Vertical: install in a pipe section where liquid flows from bottom to top.

The flow range is specified at a 10psi pressure differential. Confirm the chosen setpoint, pipe connection and flow direction before installation.