

## INDUMART Canada Flow Switch (Temperature Dispersion Type)

## SERIES: FST140

- STABLE OPERATION IN WIDE FLOW RANGE
- > SELF DIAGNOSTIC AND TROUBLE SHOOTING
- > LOCAL TEMPERATURE INDICATOR (OPTION)

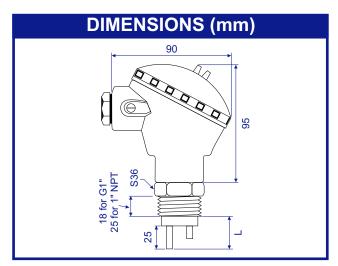
## **DESCRIPTION**

Indumart FST140 Series Flow Switches are used for ON/OFF control of low viscosity flow of water or oil in pipes.

The operating principle of the *FST140* is based on temperature dispersion. In this method, the deviation in temperature difference due to the passing flow around the two immersed sensors is measured and related to the flow velocity. Important features of this technique are its independence to the fluid pressure, and operating in very wide flow rate range.

The FST140 Series is equipped with a relay output for ON/OFF control operation. A rotary switch allows the user to adjust the switching threshold of the device, and a built-in LED indicates the relay action, and can also be used for the setpoint adjustment procedure.

The FST140 Flow Switch continuously checks both its sensing electrodes and micro-controller systems. Operators will be notified about any fault in these parts with the aid two blinking LEDs.





## **SPECIFICATIONS**

Fluid Speed

**Process Connection Wetted Parts Probe Operating Length** Output

Setpoint Adjustment Response Time Switching Hysteresis Output Delay (hold time) Temperature Drift Warm-up (Preheat) time **Power Supply** Permissible Ripple Power Consumption **Electrical Wiring Enclosure Material** Local Digital Indicator LED Indicators

Max. Process Pressure Fluid Temperature Wash down Temperature Up to 140 °C **Ambient Conditions** IP Rating Weight

1...1500 cm/s for water 2...3000 cm/s for oil 1" (NPT or G thread) Stainless steel 40...250 mm (as specified) 1 changeover relay (SPDT) 3A @ 250 VAC Program by rotary switch Approximately 15 seconds ≤ 10% of span 2 seconds 0.25% / °C 45 seconds maximum 24 VDC ± 10% 0.5 Vp-p @ 50 Hz 6 VA maximum Screw terminals inside Aluminum; Head type "B" Display process temp. (option) To indicate output integrity and used for calibration 360 psi (25 bar) 0...100 °C -10...65 °C; 0...95% RH Sensor: IP68; Terminals: IP65

500 grams (1.1 lb) maximum

**ORDERING** FST140 -**Process Medium** Water solutions W Oil and fuels **Process Connection** 1" NPT 3 4 G 1" Operating Probe Length (L) select 40...250 mm If local temperature indicator is required, please state at the time ordering.

