

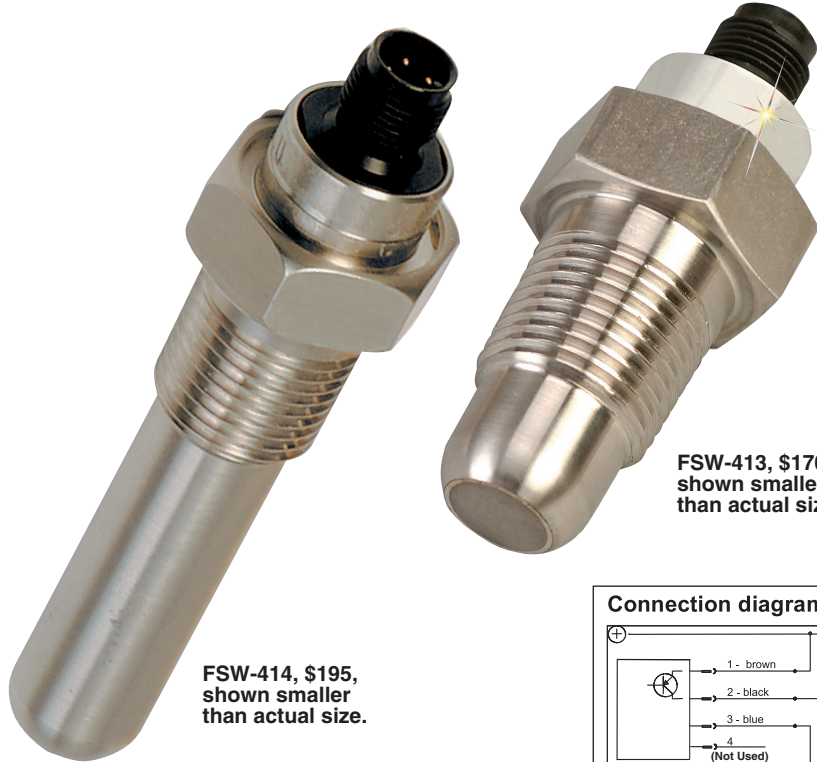


FLOW AND TEMPERATURE SWITCHES

FSW-410 Series
Starts at
\$170

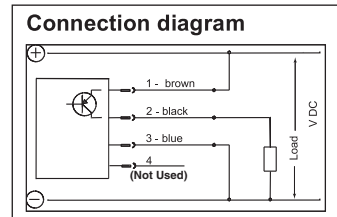


- ✓ Compact Electronic Unit with No Moving Parts
- ✓ No Adjustment or Calibration Needed
- ✓ Maintenance Free
- ✓ Fail Safe Normally Open Switch
- ✓ Easy to Install

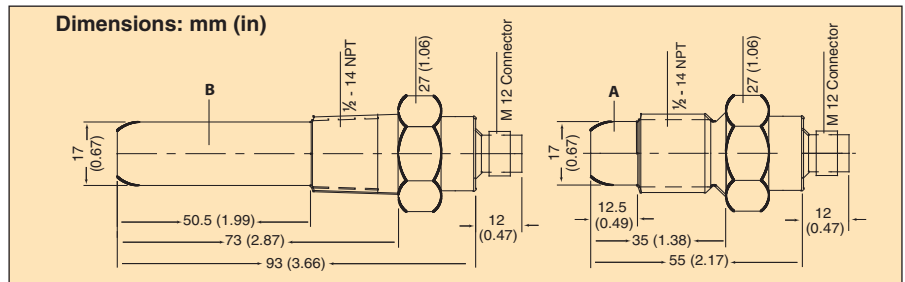


FSW-414, \$195, shown smaller than actual size.

FSW-413, \$170, shown smaller than actual size.



The FSW-410 Series is the safe sensing solution for industrial cooling systems. The FSW-410 utilizes the calorimetric principle and the all-in-one monitoring of flow and temperature of the coolant these sensors are especially designed, for all types of cooling systems, as a reliable alternative to mechanical flow switches.



MOST POPULAR MODELS HIGHLIGHTED!

SPECIFICATIONS

Low Flow Setpoint: 0.3 m/s (0.9 fps) (water related)

High Temp Setpoint: 15, 50 or 70°C (59, 122 or 158°F)

Medium Temperature:

-20 to 80°C (-4 to 176°F)

Response Time: 5 to 10 sec

Repeatability: < 0.5%

Hysteresis Approx: 20% of setpoint value

Pressure: 10 bar (150 psi)

Protection Class: NEMA 6 (IP67)

Housing Material: 303 SS

Thread: ½ - 14 NPT or

G ½ A (BSP) (optional)

Connection: M12 male socket, 4-pin and 2 m (6.5') connection cable with M12 connector

Operating Voltage: 18 to 30 Vdc, including residual ripple

Switching Current: ≤ 200 mA

Power Consumption: 4 W max

Initial Operation: after 15 seconds

Output PNP: Normally open (switch closed with flow)

To Order (Specify Model Number)

Model No.	Price	Description	Temperature Pre-Set °C (°F)	Dim
FSW-411	\$170	Flow/temperature switch	15 (59)	A
FSW-412	195	Flow/temperature switch	15 (59)	B
FSW-413	170	Flow/temperature switch	50 (122)	A
FSW-414	195	Flow/temperature switch	50 (122)	B
FSW-415	170	Flow/temperature switch	70 (158)	A
FSW-416	195	Flow/temperature switch	70 (158)	B

For units with BSP threads add “-BSP” to model number, at no additional charge.

Connection cable sold separately, see accessories chart below.

Accessories

Model No.	Price	Description
FSW-400-CABLE-2M	\$25	Cable 2 m (6.5')
FSW-400-CABLE-4M	35	Cable 4 m (13')
PSU-93	40	Power supply (24 Vdc, 200 mA)
70A-1	18	Audible alarm continuous tone, 95 dB @ 2900 Hz
GE-1400	110	Reference Book: Flow Measurement

Comes complete with operator's manual (pre-wired cable sold separately).

Ordering Examples: FSW-411, flow and temperature switch set to 15°C, PSU-93, power supply, FSW-400-CABLE-2M, pre-wired 2 m (6.5') cable and 70A-1 audible alarm, \$170 + 40 + 25 + 18 = \$253.

FSW-414, flow and temperature switch set to 50°C, FSW-400-CABLE-2M, pre-wired 2 m (6.5') cable and PSU-93, unregulated 24 Vdc power supply, \$195 + 25 + 40 = \$260.

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• Flow and Level

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• pH and Conductivity

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• Pressure, Strain and Force

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters