

12-64B Flow Switch

General Purpose Flow Monitor



The 12-64B provides low flow detection over a wide flow range. Any type of external control system can be actuated from either the normally open or normally closed output contacts of the instrument's on-board DPDT relay.

The sensing element of the instrument and its modular control circuit are mounted in a rugged aluminum enclosure that is Factory Mutual, CSA, and CENELEC approved for hazardous location service.

The wetted surfaces of the 12-64B sensing element are 316 stainless steel with nickel-braze providing resistance to most liquid, gaseous and particulate media.

Applications

- › Pump protection
- › Cooling/chill water
- › Drain line flow
- › Safety spray nozzle monitoring detection
- › Heat exchangers
- › Oil well testing system
- › Relief valve

Specifications

Setpoint Range:

› Water-based Liquids:

0.015 to 0.5 FPS [0.005 to 0.15 MPS]

› Hydrocarbon-based Liquids:

0.01 to 2.0 FPS [0.003 to 0.61 MPS]

› Air/Gas:

1.0 to 125 SFPS [0.3 to 38 NMPS]

Repeatability: 1% of full signal range at constant process conditions.

Adjustable Response Time: 10 to 300 seconds

Enclosure: Epoxy powder coated aluminum rated for NEMA Type 4X and hazardous locations Groups B, C, D, E, F and G; EEx d IIC (meets IP66).

Agency Approvals: FM, CSA and CENELEC and CE Mark

Shipping Weight (approximate): 8 lbs [3.6 kgs]

Flow Element

Construction: All wetted surfaces 316 stainless steel with nickel braze per process specifications AMS 4777.

Process Connection: 1 inch male NPT

Insertion U-Length: 1.2 or 2 inch [30 or 51 mm]

Operating Temperature: -100° to +350° F [-73° to +177° C]

Operating Pressure: To 3000 psig [207 bar(g)]

Control Circuit

Operating Temperature: -40° to +140° F [-40° to +60° C]

Input Power: 115 ±15 Vac or 230 ±30 Vac, 50/60 Hz, 22 to 30 Vdc; 6 watts maximum.

Relay Contacts: DPDT rated 2 amps at 115 Vac and 24 Vdc or 1 amp at 230 Vac. Coil de-energized at no-flow (factory default) or de-energized at flow (field selectable).

Electrical Connection: 1 inch female NPT

Options

FM71D Calibrator: P/N 010022-01

Ordering Information 12-64B-

1 2 3 4

Ordering Procedure: To order a complete Model 12-64B, please fill in each numbered box above with the appropriate code from the categories below. Consult FCI on the cost of special data and documentation. Final acceptance of the part number is subject to FCI's approval.

Option at extra cost (check box):

Stainless Steel Tag
(5 lines with 18 characters per line maximum)

1. Agency Approval	Code	2. Identification Tag	Code	3. Insertion U-Length	Code	4. Input Power	Code
Factory Mutual (FM)	A	Adhesive Label**	0	1.2 in. [30 mm]	A	115 Vac	1
CENELEC with CE Mark*	B			2.0 in. [51mm]	B	230 Vac*	2
CSA*	C					24 Vdc*	3

Line 1: _____

Line 2: _____

Line 3: _____

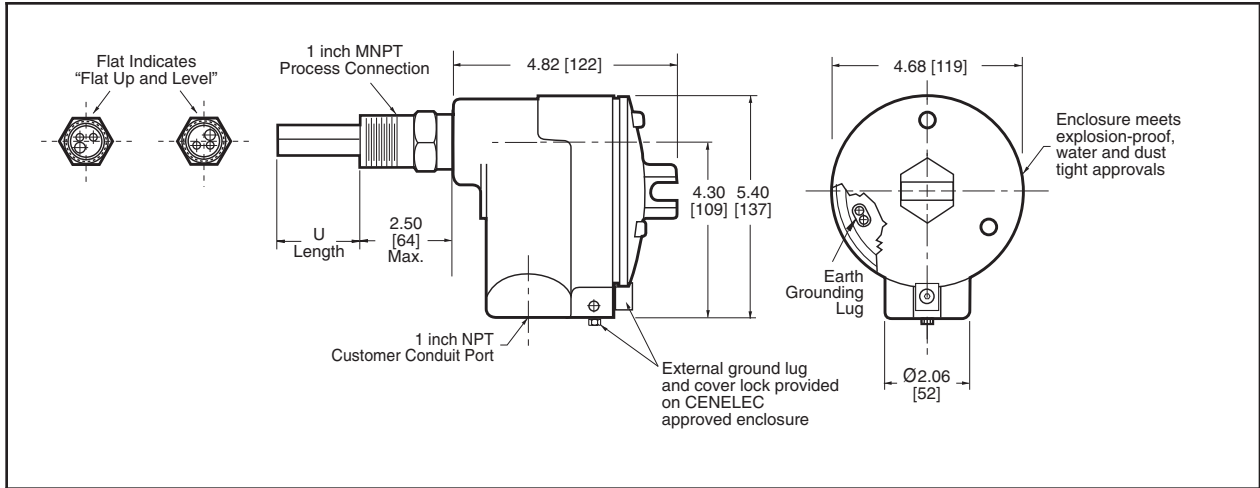
Line 4: _____

Line 5: _____

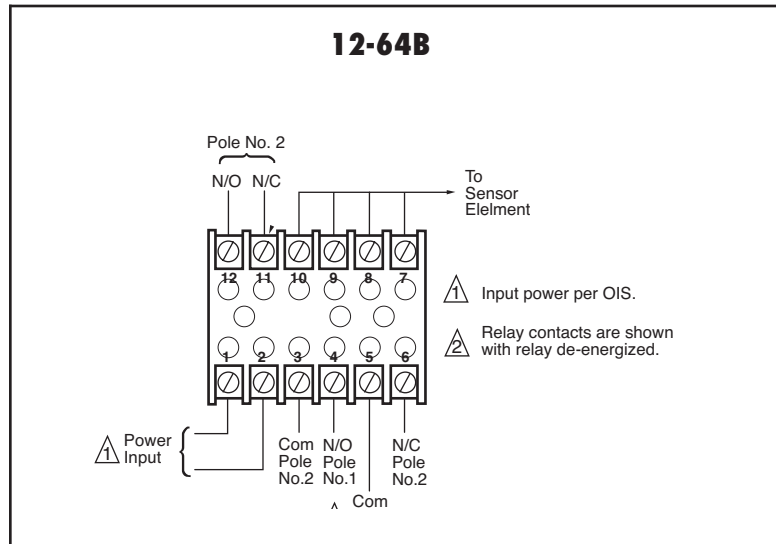
* Add three (3) working days to standard delivery.

** Customer tag information requires optional stainless steel tag.

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Wiring Diagram



FCI is a continuous improvement company. Specifications subject to change without notice.

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FCI is ISO 9001 certified/conformance to AS9100

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