EXPLOSION-PROOF DIFFERENTIAL PRESSURE SWITCH

Differential Pressure Switches

Description

Explosion-proof differential pressure switch

Drain

UL

Pressure

H3S-2SC-MV is a heavy duty, CSA H3 pipe mounting kit for 1-1/4 to 2˝ pipe

Directive 2014/34/EU ATEX Compliant

- MV

$56

DWYER INSTRUMENTS, INC. | dwyer-inst.com

• Option for use with water and water-based solution makes this a versatile switch

• Explosion-proof housing for use in applications where protection of process and personnel is needed

• Rotary motion design prevents set point shifts

• Liquid filter status

• Differential pressure across chiller

• Water flow proving with an orifice plate

• Industrial unit with a unique new design which provides sensitivity to differential pressures as low as 10 inches of water (254 mm w.c.), yet handles total pressure of 1500 psi (103 bar), on either high or low pressure port, without damage. Special over-travel feature prevents overtightening of range adjust screw.

FEATURES/BENEFITS

- Option for use with water and water-based fluids or harsher applications.

APPLICATIONS

- Friction is minimized and repeatability increased by allowing range spring to move approximately 5% of range, with zero set point shift due to variation in working pressures.

- The Series H3 Explosion-Proof Differential Pressure Switch is a heavy-duty, industrial unit with a unique new design which provides sensitivity to differential pressures as low as 10 inches of water (254 mm w.c.), yet handles total pressure of 1500 psi (103 bar). Unlike common differential pressure switches that use a piston-type motion transfer, the Series H3 utilizes a rotary motion transfer shaft that prevents a change in total pressure from causing a set point shift. Unit yields deadbands approximately 5% of range, with zero set point shift due to variation in working pressures.

FEATURES/BENEFITS

- Rotary motion design prevents set point shifts

- Explosion-proof housing for use in applications where protection of process and personnel is needed

- Option for use with water and water-based solution makes this a versatile switch

APPLICATIONS

- Water flow proving with an orifice plate

- Differential pressure across chiller

- Liquid filter status

MODEL CHART

Example | H3 | S-2 | S | C | -MV | H3S-2SC-MV | Price
---|---|---|---|---|---|---|---
Series | H3 | Explosion-proof differential pressure switch | -
Pressure Chamber and Diaphragm Material (Wetted) | A | S | Aluminum chamber with Nitrile diaphragm | $574.00
Adjustable Operating Range | 1 | 2 | 3 | 4 | 10-190 in. w.c. (2.49-44.78 kPa) | 316 SS chamber with Fluoroelastomer diaphragm | 766.00
Circuit (Switch) Options | S | D | SPDT snap action switch rated 5 A @ 125/250 VAC, 30 VDC | -
Electrical Connection | L | C | 18 AWG x 18 inch lead wires | -
Options | MV | Drain | - | +47.75
- Enclosure with drain - allows condensate to be drained from inside (meets NEMA 3 instead of 4X)

Hazardous Location Ratings

Model | UL | CSA | Directive 2014/34/EU ATEX Compliant
---|---|---|---
H3 - - - C | - | - | -
H3 - - - L | Cl. I, Gr.B, C & D | Cl. I, Gr.B, C & D | C 2813 II 2 G Ex d IIC T5 or T6 EC-Type Certificate No. KEMA 03ATEX 2584
H3 - - - T | Cl. I, Gr.B, C & D | Cl. I, Gr.B, C & D | C 2813 II 2 G Ex d IIC T5 or T6 EC-Type Certificate No. KEMA 03ATEX 2584
H3 - - - C-DRAIN | Cl. I, Gr.B, C & D | Cl. I, Gr.B, C & D | C 2813 II 2 G Ex d IIC T5 or T6 EC-Type Certificate No. KEMA 03ATEX 2584
H3 - - - L-DRAIN | Cl. I, Gr.B, C & D | Cl. I, Gr.B, C & D | C 2813 II 2 G Ex d IIC T5 or T6 EC-Type Certificate No. KEMA 03ATEX 2584

ACCESSORIES

Model | Description | Price
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A-610 | Pipe mounting kit for 1-1/4 to 2˝ pipe | $28.00