

Series 152P8 Ultra Low Differential/Pressure Switch

Ultra low adjustable pressure switch. Unique construction using efficient Nega-Rate® Belleville disc spring for stable set points and high proof pressure. Wide range of wetted materials makes this series well suited for applications that formerly required the use of diaphragm seals.

Operating Pressure Data

Adjustable Range Number	Adjustable Set Point Range	Deadband* (approximate)	Maximum Recommended System Pressure	Proof Pressure
	Increasing			
2	2" to 100" H ₂ O Differential	1.5" H ₂ O	15 psig Simul. or Hi over Low 100" H ₂ O Low over Hi	100 PSI Simul. or Hi over Low 15 PSI Low over Hi

*Deadband 50% wider with "CC" (DPDT) and "Z" (Double Break) Electrical Forms.

Standard Specifications

Electrical

Snap action electrical switch recognized by Underwriters' Laboratories, Inc. and CSA International

Electrical Connection

1/2 NPT female conduit connection with terminal block

Pressure Connection

High — 1/2 NPT Female
Low — 1/4 NPT Female

Temperature Range*

Ambient: -40°F to +180°F
(-40°C to +82°C)
Media: -50°F to +250°F
(-46°C to +121°C)

*Temperature limits change with O-Ring selection

Adjustment

Concealed wrench flat adjustment with range scale

Shipping Weight

Approximately 4 pounds



Order Miscellaneous Option "D"



Weather Proof
(NEMA 4 and 13)

Ordering Sequence — Select desired option for each category

OPTIONS

Adjustable Range

2 .5" H₂O dec. (1.2 mbar) to 100" H₂O inc. (249 mbar)

Electrical Form

C 15 amp at 125 or 250 VAC; 1/8 hp at 125 VAC; 1/4 hp at 250 VAC;
.5 amp resistive, .04 amp inductive at 125 VDC
CC 11 amp, 1/4 hp at 125 or 250 VAC; 5 amp resistive, 3 amp inductive at 28 VDC;
.5 amp resistive at 125 VDC
Z 15 amp at 125 or 250 VAC; 1/4 hp at 125 VAC; 1/2 hp at 250 VAC;
1 amp resistive, .5 amp inductive at 125 VDC

Enclosure

3 Meets or exceeds the requirements of NEMA Type 3 3R, 3S, 4, 4X and 13, IP65

Miscellaneous

A Epoxy paint exterior — extra protection for severe environments
D SIL approval and marking, per IEC61508 (includes FMEA report)
L Neon light indicator —115 VAC
M Gold electrical contacts for extremely low current applications (Not with Z Form)
U M20 x 1.5 Electrical Conduit Adapter

Port Material

1 316 Stainless Steel High/Aluminum Low
4 316 Stainless Steel High/Low

Diaphragm

1 Polyimide
4 316 Stainless Steel
6 Tantalum
7 Hastelloy C

O-Rings

2 Kalrez
3 Viton
5 EPR
8 Buna-N

Special (Consult representative or factory)

- Non-catalog adjustable range and/or set point and deadband
- Media temperature capabilities from -65°F to 400°F

Ordering Procedure

- When factory presetting is desired, stipulate set point, increasing or decreasing and system pressure
- Insert available option number or letter designation as required

Example

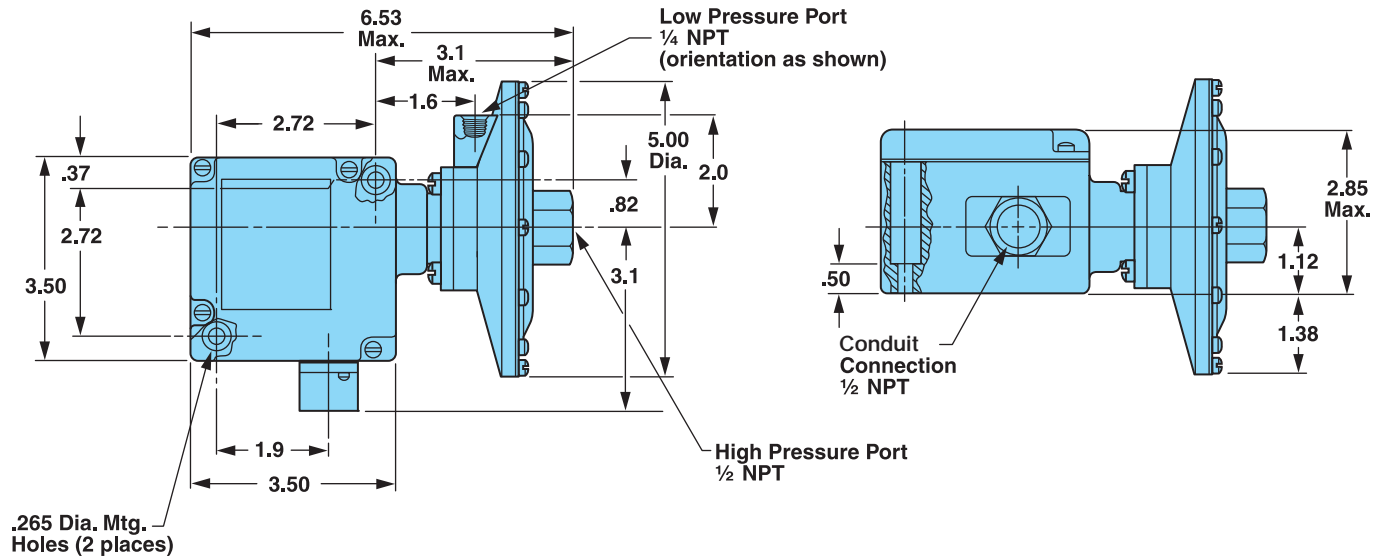
Series
Adjustable Range
Electrical Form
Enclosure
Miscellaneous
Port Material
Diaphragm
O-Rings

152P 82 CC3 _ 463

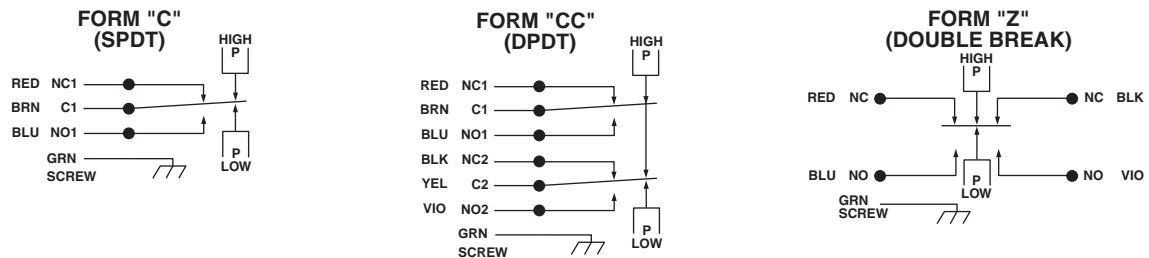
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Field Adjustable
.5" H₂O to 100" H₂O

Envelope Dimensions



Electrical Form



Basic Principles of Design

