DYNISCO MODEL PT160SW

Solid State Pressure Switch for Injection Molding Applications

Description

Model PT160SW pressure switch monitors hydraulic pressure on an injection molding machine. The switch is designed to energize a contact closure when setpoint pressure is reached. Unlike mechanical switches, the PT160SW can handle the severe demands of cyclic pressure and overpressure without failing. Field failures mean service calls, frustration and lost production time.

Features

- Solid state switch, no mechanical parts
- Wide range, adjustable setpoint
- Stainless steel construction
- Potted hybrid electronics and flex - print wiring
- Temperature compensated
- 0 - 500 to 0 - 10,000 psi
- Contoured pressure sensing diaphragm

Benefits

- Reliable design
- Switch from injection pressure to holding pressure based on pressure setpoint
- Rugged
- Resists shock and vibration
- Ideal for high temperature processes
- Choice of ranges
- Greater accuracy, repeatability and fatigue strength



Specifications

Performance Characteristics

Ranges (psi): 0 - 500, 0 - 1,000, 0 - 2,500, 0 - 3,000, 0 - 4,000, 0 - 5,000, 0 - 10,000
Switchpoint adjustment: 10% to 50% pressure range
Switchpoint setting resolution: 0.25% pressure range
Deadbend (hysteresis): 1.5% pressure range
Safe overpressure: 2 x pressure range
Burst pressure: 5 x pressure range

Electrical Characteristics

Pressure below setpoint: Switch open, resistance >1 megohm
Pressure above setpoint: Switch closed, applied voltage less 10%
Power loss: Switch open
Switch output load resistance: 1,000 Ohms minimum
Frequency response: Single pole low pass filter, - 3db at 200 Hz, typical
Power supply: 15 to 32 Vdc
Supply current: 100 mA maximum

Temperature Characteristics

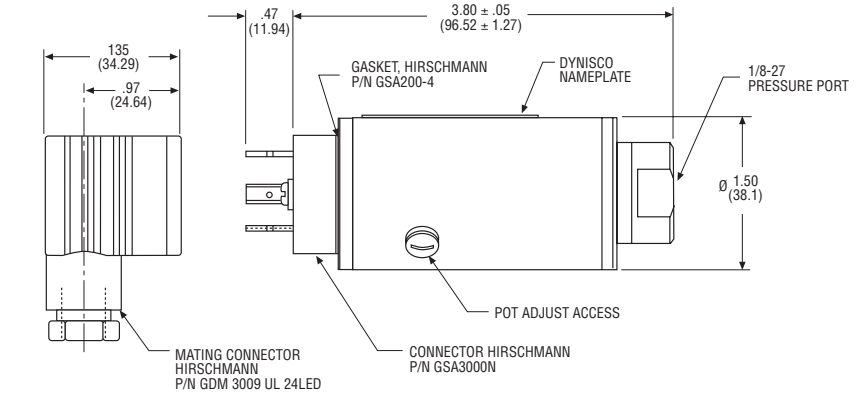
Operating temperature range: 32˚F to 150˚F (0˚C to 66˚C)
Storage temperature range: -20˚F to +185˚F (-29˚C to +85˚C)
Temperature effect on switchpoint: 0.05% of range/˚F (0.09% of range/˚C)

Mechanical Characteristics

Pressure port: 1/8" to 27 NPT, internal
Wetted material: 17 - 4 PH, 15 - 5 PH stainless steel
Cover material: 303, 304 stainless steel
Weight: 10 ounces

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All dimensions are in inches (millimeters) unless otherwise specified

Ordering Guide

Model	Pressure Range (psi)	
	Code	Range
PT160SW	5C	0 - 500
	1M	0 - 1,000
	2.5M	0 - 2,500
	3M	0 - 3,000
	5M	0 - 5,000
	10M	0 - 10,000

Ordering Example: PT160SW - 3M

Connector Wiring

Pin	Function
1	Switch output
2	- power
3	+ power

Delivery

Please call for specific delivery information.