DIFFERENTIAL PRESSURE SENSOR

DP3-2A-2PNC

Differential Pressure Sensor

A differential pressure sensor with two 4-20 mA measurement channels and 75%/100% PNP normally-closed alarm outputs for hydraulic filtration monitoring.

PRESSURE RANGE	OUTPUT	PROTECTION
0-25 bar system / 0-5 bar differential	2 x 4-20 mA + 2 x PNP NC	IP65

PRODUCT OVERVIEW

The DP3-2A-2PNC monitors both system pressure and filter differential pressure while providing two fixed contamination alarms. Its two-stage logic helps operators act before full filter restriction, and the design is intended to avoid nuisance signaling during hydraulic startup and transient flow changes.

KEY FEATURES

- Simultaneous system-pressure and differential-pressure measurement
- Two fixed PNP normally-closed alarm outputs
- 75% pre-alarm and 100% full alarm for filter contamination
- Designed to suppress nuisance indications during startup and transients
- M12 x 1, 8-pin connection for combined analog and switch outputs

TYPICAL APPLICATIONS

- Hydraulic filter condition monitoring
- Mobile and industrial hydraulic power units
- Lubrication systems
- Fuel and water filtration equipment

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Compatible media	Mineral oil, gasoline, and water
System pressure measurement	0-25 bar, 4-20 mA
Differential pressure measurement	0-5 bar, 4-20 mA
Pre-alarm output	75% differential pressure, 2.25 bar, PNP normally closed
Full-alarm output	100% differential pressure, 3 bar, PNP normally closed
Switch-point tolerance	+/-5%
Supply voltage	10-36 VDC
Maximum switch load	400 mA
Process connection	G1/2; maximum installation torque 33 Nm
Electrical connection	M12 x 1, 8-pin
Operating temperature	-40 to +85 deg C
Ingress protection	IP65

Configuration note: Specifications and approvals can vary by pressure range, output, connection, and material selection. Confirm the exact ordering code and controlled specification with CASCED US before design release.

View the current product page and request a quote at casced-us.com

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