



Excellent Design & Manufacture

Opposed Piston Differential Pressure Detectors

The Opposed Piston differential pressure detectors is essentially two Static "O" Ring type pressure sensors connected at opposite ends of a common piston shaft.

Application Information

Basic models with standard wetted parts are normally suitable for air, oil, water and noncorrosive process fluids.

Corrosive service and particular user requirements may require optional components.

Operating performance of the opposed piston type is optimized when system pressure is relatively constant. Process or fluid power applications that have high and varying static pressures, high over-range, proof, shock pressures or cycle rates may require a model from the other series.



Features and Benefits

Complete Product Line

- Standard models with many options cover pressure range 0.5 to 1000 psid. Customized specials available.

Robust Construction

- Rugged, high-cycle rate tolerance, long life, not critical to vibration, high overrange and proof pressures, excellent corrosion resistance to hostile environments.

Instrument Quality

- High repeatability, narrow dead band, negligible temperature effect.

Wetted Parts

- Wide selection of materials, process connections configuration and size.

Snap-Action Electrical Detecting Element

- Wide selection UL Listed and CSA Certified detecting elements for AC and DC service.

Field Adjustable

- Excellent resolution of Set Points, self-locking adjustment, no special tools required. No charge for factory calibration.

Agency Listings/Certification

- Select models with ATEX, IECEx, CSA, INMETRO, Rostechnadzor (RTN)
- Meets most code and customer requirements.

Safety Certified to IEC 61508 (SIL)

- EDM products are certified to IEC 61508 for non-redundant use in SIL1 and SIL2 Safety Instrumented Systems for most models. For more details or values applicable to a specific product, see the Safety Integrity Level Quick Guide .

Delivery

- Routine shipments 7 to 10 working days.
- Emergency shipments via air same day.

Service

- Factory service engineers and area factory representatives provide effective and prompt worldwide service.

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Model Number System

EX3008-900085-900

Adjustable Range Increasing Differential Pressure		Typical Dead Band		Maximum System Pressure		Maximum Differential Pressure	
psid	mbar	psid	mbar	psi	bar	psi	bar
2.5 to 8.0	170 to 550	0.6	40	125	9	125	9
Proof Pressure 1,000 psi 70 bar							

Product Specifications

Housing	Weathertight NEMA 4, 4X, IP66	Wetted Materials	
	Six-place compression type terminal block standard.	Diaphragm	TCP Teflon - Coated Polyimide
		O-Ring	Buna - N
Material	Aluminum	Pressure Port	
Detecting Element		Process Connection Size	1/4" NPT(F)
Designator	SPDT	Pressure Port Material	Aluminum
Rating	5 Amps @ 30 VDC		
Dead Band Multiplier	1.0		

Weathertight - Nonhazardous Service (NEMA 4,4X IP65)

