

Electronic Dual Differential Pressure Switch

BDS3000

Features

- ▶ Measuring range: differential: 0 - 500 psid
- ▶ Enclosure Rating: Type 4X (IP65) / Type 6 (IP67)
- ▶ Two switch points
- ▶ 0.50% accuracy
- ▶ Analog output 4 - 20 mA or 0 - 10 V
- ▶ Superior EMI protection
- ▶ Display & electronic connection: rotatable by 320°
- ▶ Simple navigation menu
- ▶ IO-Link digital communication interface
- ▶ Hydraulic and pneumatic compatible

Applications

- ▶ Filtration
- ▶ Machine tool industry
- ▶ Factory Automation
- ▶ Lubrication monitoring
- ▶ Pumps and compressors



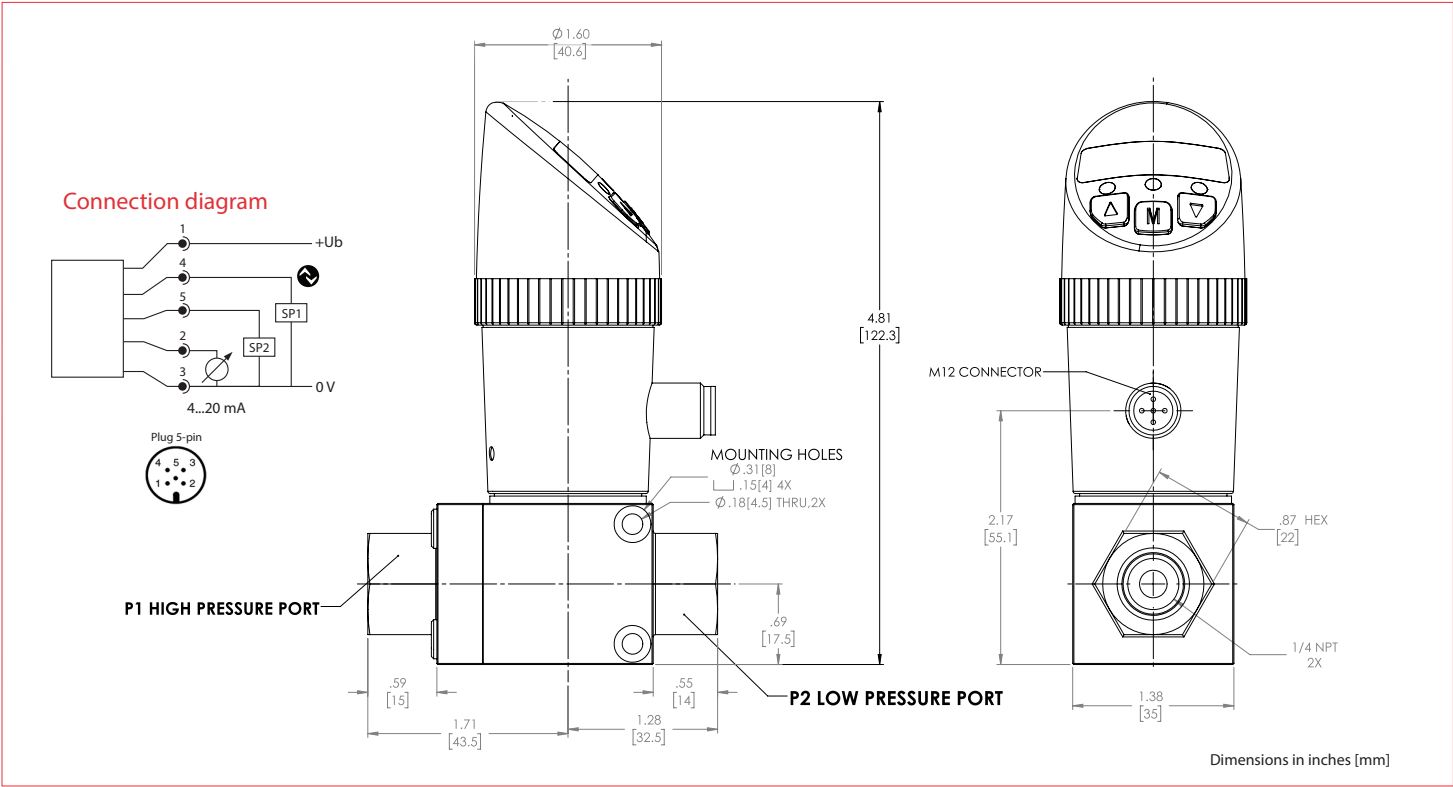
General Specifications

Sensor element:	Piezoresistive sensor	Analog output:				
Materials:	Stainless steel fittings 316L Stainless steel sensors	Current output:	4-20 mA			
Wetted parts:		Scanning rate:	2 ms			
Enclosure:		Voltage output:	0 to 10 V DC			
Seals:		Rating:	max. 10 mA			
	304 Stainless steel, PBT	Adjustment range:	25% to 100% f. s.			
Operating elements:	FKM fluoroelastomer	Transistor switching outputs:				
Enclosure rating:	3 easy-response push-buttons	Switching function:	Normally open / normally closed, standard / window mode and diagnosis function adjustable			
Protection class:	Type 4X (IP65) / Type 6 (IP67)	Switching output:	PNP / NPN (field selectable on IO-Link units)			
Electrical connection:	III	Adjustment range for switching point and hysteresis:	0% to 125% f. s.			
Process connection:	Plug M12 x 1, 5-pin	Switching frequency:	Max. 100 Hz			
Dimensions:	1/4" NPT female (low and high sides)	Load:	Max. 500 mA (250 mA IO-Link units), short- circuit-proof			
Weight:	3.00 x 1.60 x 4.81 inches	Delay:	0.0 s to 50.0 s adjustable			
A/D-Converter:	Approx. 1.5 lb	Status display(s):	LED(s) red			
Resolution:	12 bit (4,096 steps per measure span) 1000/s	IO-Link Communication Interface				
Scanning rate:		Transmission type:	COM2 (38.4 kBaud)			
Linearity error:		IO-Link revision:	1.1			
Temperature influence:		SDCI standard:	IEC 61131-9			
Compensation range:	< ±0.5 % f. s. at +25 °C	Profiles:	Smart Sensor, Process Data Variable, Device Identification, Device Diagnosis			
Repeatability:	±0.1% f. s.	SIO modules:	Yes			
Temperature range:	-13°F to 212°F (-25°C to +100°C) 14°F to 158°F (-10°C to +70°C) -22°F to 176°F (-30°C to +80°C)	Required master port type:	A			
Media:		SIO output:	1 analog / 2 binary (switch points) [see product configurator]			
Electronics:		Min. process cycle time [ms]:	2.5			
Storage:		Device ID:	0x071...			
Power supply:	15 to 32 V DC, reversed polarity protected (SELV, PELV), Class 2	Pressure Ranges				
Power consumption:	Approx. 50 mA (without load)	Pressure Range Code	Differential Pressure	Proof Pressure	Proof Pressure	Common Pressure
Digital display:	4-digit 14-segment LED red display, digit height .35 inches (9 mm)		P1>P2 (PSID)	P1>P2 (PSID)	P2>P1 (PSID)	P1=P2 (PSI)
Display rate:	20/s	0015P	0-15	30	15	2500
Error display:	LED RED and alphanumeric display	0100P	0-100	200	100	2500
		0500P	0-500	1000	150	2500

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Technical Drawings



Product Configurator

Example **BDS3** **4** **F** **V** **M** **0500P**

Series: BDS3 Series BDS3000, electronic dual differential pressure switch

Output: 4 Dual switch point plus 4-20mA (0-10V field selectable)
8 IO-Link / Dual switch point plus 4-20mA (0-10 field selectable)

Process Connections: F 1/4" NPT female

Electrical Connection: M¹ M12

Sealing: V FKM fluoroelastomer

Pressure Ranges²

0015P	0 - 15 psid (differential)
0100P	0 - 100 psid (differential)
0500P	0 - 500 psid (differential)

Accessories

Order Number	Description
239546-1M-R-S ³	5 Pin M12 Female Right Angle Plug Molded Cable, 3.28 Feet (1 Meter), Shielded
239546-1M-S ³	5 Pin M12, Female Straight Plug Molded Cable, 3.28 Feet (1 Meter), Shielded
239548-S	5 Pin M12 Female Straight Connector
239548-R	5 Pin M12 Female Right Angle Connector

Note:

- Mating connector not included with unit; mating connectors are available and can be ordered as an accessory.
- Contact factory for ranges not listed including BAR.
- See Cable Connectors & Accessories for more options.

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