

LevelPro® – LPS50i Series

Digital Pressure Switch

- ✓ Monocrystalline Silicon Diaphragm
 - ✓ Bright LED Display
 - ✓ M12 Connection
 - ✓ IO-Link Capability
 - ✓ 4-20mA Output
-  **IO-Link**



Turn Up the Pressure
Digitally, Precisely, Effortlessly.

Precision Meets Connectivity

The **LPS50i** digital pressure switch combines precise measurement with IO-Link communication, a bright 330° rotatable LED display, and a user-friendly interface. Its rugged design and flexible installation options make it ideal for a wide range of industrial applications.



Specifications

Supply Voltage	12~30VDC
No-Load Current Consumption	Max. 40mA, 24VDC Power Supply
Switch Output Type	PNP / NPN NO / NC Programmable
Switching Output Current	<200mA 24VDC
Response Time	<0.01 ~2s (Factory Default)
Switching Accuracy	±0.5% of Range
Wiring Protection	Inverted Phase, Overload, Short Circuit Protection
Accuracy	±0.5% of F.S
Analog Output	4-20mA
Communication Output	IO-Link RS-485 (Optional)
Display Range	4 bit 12mm high LED -1999 ~ 9999
Stability	±0.3% of Range
Temperature Range	-4 ~ -121°F -20 ~ 85°C
Housing & Wetted Part	SS304
Flame Retardant Grade	UL-94 V-0
Protection Class	IP67

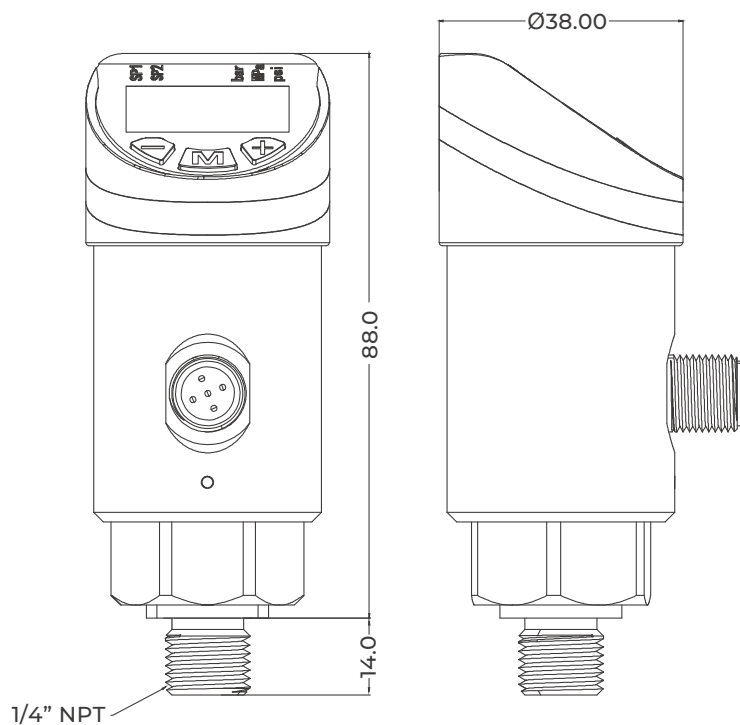
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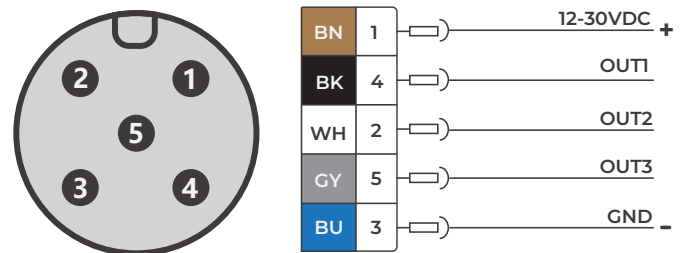
Pressure Range

Pressure Range	Bar	-1	1	2	5	10	16	25	60	100
	Psi	-15	15	29	73	145	232	363	870	1450
Max. Overload Pressure		x5				x3			x2	
Min. Damage Pressure		x6				x4			x3	

Dimensions (mm)



Wiring



Color	Pin	Description
Brown	1	+24VDC
Black (Out 1)	4	SP1 Switch PNP (Default) SP1 Switch NPN IO Link Frequency (100Hz F.S)
White (Out 2)	2	SP2 Switch PNP (Default) SP2 Switch NPN
Gray (Out 3)	5	4-20mA
Blue	3	-VDC

Model Selection

LPS50i – Digital Pressure Switch					
Part Number	Material	Communication	Switch Output	Output	Connection
LPS50i-SS-M-N-X	304SS	IO-Link	NPN Pulse — NC/NO	4-20mA	1/4" NPT
LPS50i-SS-M-P-X	304SS	IO-Link	PNP Pulse — NC/NO	4-20mA	1/4" NPT

X = Pressure Range

N01 ▶ -14.5 - 0.0 Psi (-1 - 0 Bar)	010 ▶ 0.0 - 145 Psi (0 - 10 Bar)
C01 ▶ -14.5 - 14.5 Psi (-1 - 1 Bar)	016 ▶ 0.0 - 232 Psi (0 - 16 Bar)
001 ▶ 0.0 - 14.5 Psi (0 - 1 Bar)	025 ▶ 0.0 - 362.5 Psi (0 - 25 Bar)
002 ▶ 0.0 - 29 Psi (0 - 2 Bar)	060 ▶ 0.0 - 870 Psi (0 - 60 Bar)
005 ▶ 0.0 - 72.5 Psi (0 - 5 Bar)	100 ▶ 0.0 - 1450 Psi (0 - 100 Bar)