

Brass Structure Industrial Pressure Transducer

Description

XDB300 series of pressure transducers utilize ceramic pressure sensor core, ensuring exceptional reliability and long-term stability. With economical brass structure and multiple signal output options, they are widely used in various industries and fields.

Features

- ◆ Low cost and high quality
- ◆ Brass structure & compact size
- ◆ Complete surge voltage protection function
- ◆ Short circuit and reverse polarity protection
- ◆ Provide OEM, flexible customization

Typical applications

- ◆ Intelligent IoT constant pressure water supply
- ◆ Energy and water treatment systems
- ◆ Medical, agricultural machinery and testing equipment
- ◆ Hydraulic and pneumatic control systems
- ◆ Air-conditioning unit and refrigeration equipment
- ◆ Water pump and air compressor pressure monitoring

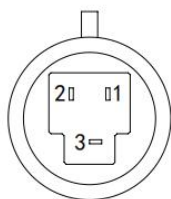


Parameters

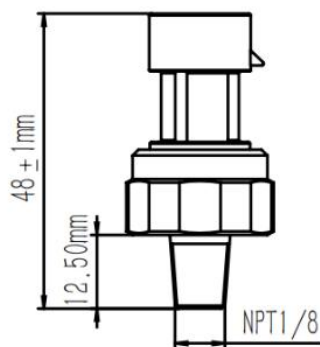
Pressure range	-1~20 bar	Long-term stability	$\leq \pm 0.2\%$ FS/year
Input voltage	DC 5V, 12V, 3.3V, 9-36V	Response time	$\leq 4\text{ms}$
Output signal	0.5~4.5V / 1~5V / 0~5V / I ² C (others)	Overload pressure	150% FS
Thread	NPT1/8, G1/8	Burst pressure	300% FS
Electrical connector	Packard / Direct plastic cable	Cycle life	500,000 times
Operating current	$\leq 3\text{mA}$	Housing material	Copper shell
Operating temperature	-40 ~ 105 °C	Sensor material	96% Al ₂ O ₃
Compensation temperature	-20 ~ 80 °C	Protection class	IP65
Insulation resistance	>100 MΩ at 500V	Cable length	0.3 meter by default
Temperature drift (zero&sensitivity)	$\leq \pm 0.03\%$ FS/ °C	Weight	≈0.08 kg
Accuracy	$\leq \pm 1.0\%$ FS@25°C ($\leq \pm 2.0\%$ FS max -20...80°C)		

Dimensions(mm) & electrical connection

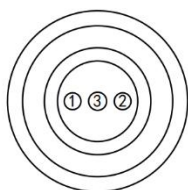
Packard



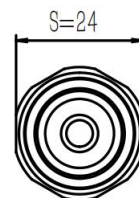
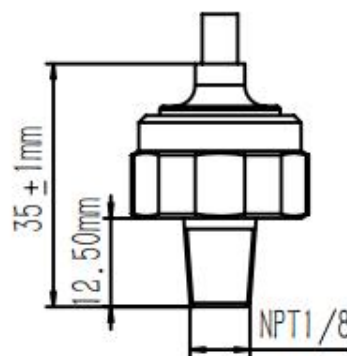
RED: +SUPPLY①
BLACK: GND②
YELLOW: OUTPUT+③



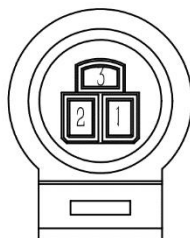
Direct plastic cable



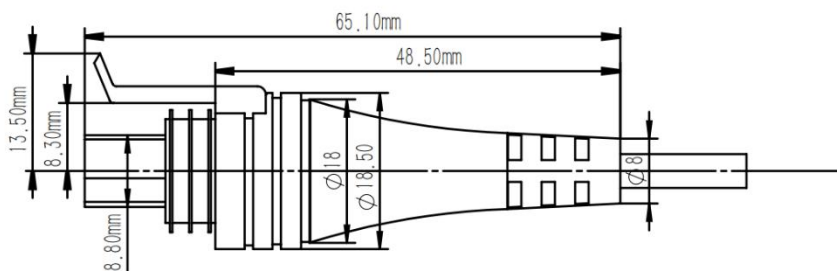
RED: +SUPPLY①
BLACK: GND②
YELLOW: OUTPUT+③



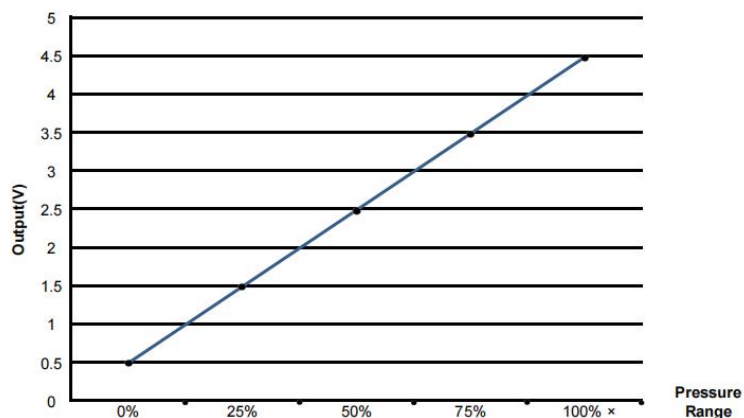
Packard Plug cable



RED: +SUPPLY①
BLACK: GND②
YELLOW: OUTPUT+③



Output Curve



How to order


E.g. **XDB300 - 150P - 01 - 0 - C - N1 - W2 - c - 01 - Oil**


1	Pressure range	150P
	M(Mpa) B(Bar) P(Psi) X(Others on request)	
2	Pressure type	01
	01(Gauge) 02(Absolute)	
3	Supply voltage	0
	0(5VDC) 1(12VDC) 2(9~36(24)VDC) 3(3.3VDC) X(Others on request)	
4	Output signal	C
	B(0-5V) C(0.5-4.5V) E(0.4-2.4V) F(1-5V) G(I ² C) X(Others on request)	
5	Pressure connection	N1
	N1(NPT1/8) G2(G1/8) X(Others on request)	
6	Electrical connection	W2
	W2(Packard) W7(Direct plastic cable) X(Others on request)	
7	Accuracy	c
	c(1.0% FS) d(1.5% FS) X(Others on request)	
8	Paired cable	01
	01(0.3m) 02(0.5m) 03(1m) X(Others on request)	
9	Pressure medium	Oil
	X(Please note)	


Notes:

- 1) Please connect the pressure transducers to the opposite connection for different electric connector.
If the pressure transducers come with cable, please refer to the right color.
- 2) If you have other requirements, please contact us and make notes in the order.

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