

ema

Pressure sensor

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Pressure sensors



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Cate NO. : C PS 07 T-A





Pressure sensors

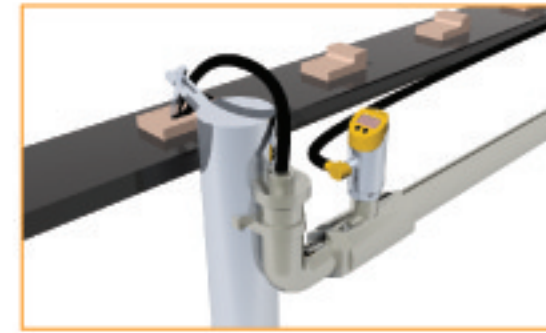


Features:

- Protection Classification:IP67
- Visual indication makes the control easier
- High accuracy, high stability, and anticorrosive.
- Through menu display, the status of NO/NC is adjustable.
- It is clear to understand the status of output and pressure unit through distinctive LEDs.

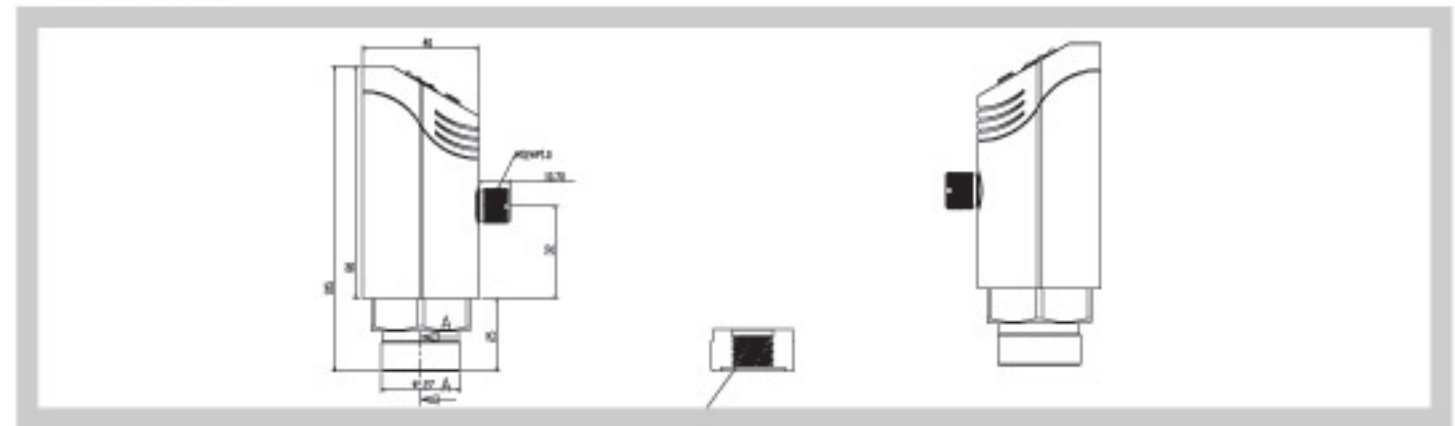
Applications:

Pressure sensors are applied to a variety of fields in industrial automation such as water conservancy, hydroelectric industry, intelligent architecture, automation control, aviation, military industry, petrochemical industry, oil , electric power, shipping, machinery tools, and more.

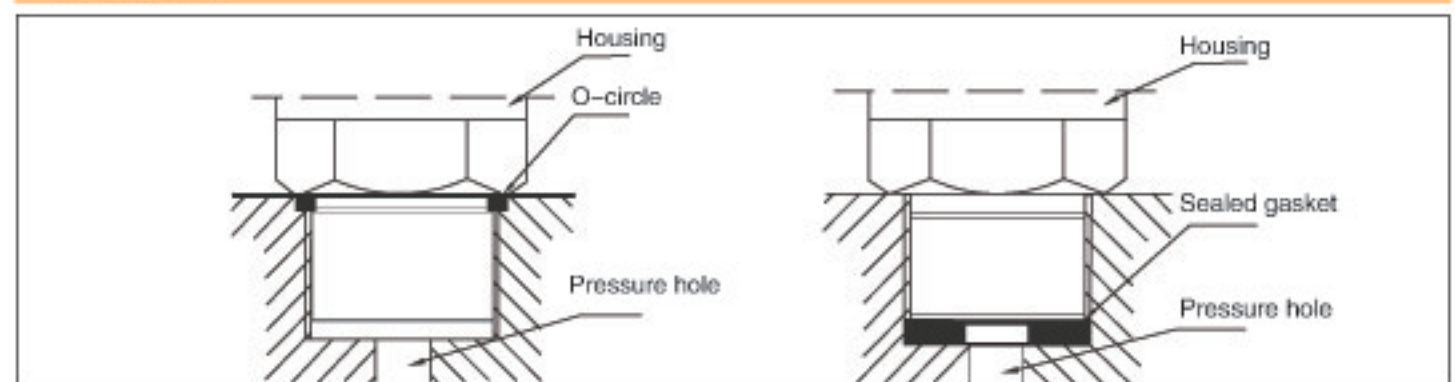


When the pressure acts on the interface of the ceramic-diaphragm, the diaphragm is deformed slightly and then connected as a Wheatstone bridge through the thick film resistor printed in the back of the diaphragm. Owing to Piezoresistive Effect from voltage dependant resistor, the electric bridge will produce a high-linear voltage signal with a direct ratio to the pressure, converting the signal to a standard voltage signal via circuit and transmitting the standard voltage signal to the intelligent system. The digit-segment display shows the value of pressure and then the value will be compared to setting points by the user. Finally, this value is converted to signals for switching output(NPN ,PNP) or for analog output.

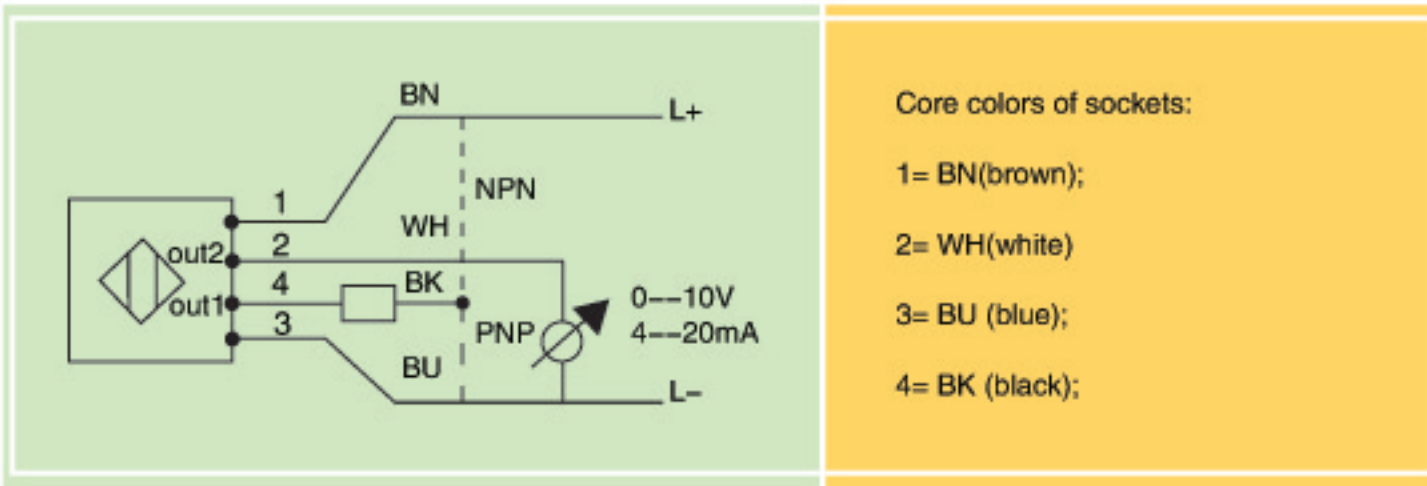
Dimension:



Installation:



Connection :



Core colors of sockets:

- 1= BN(brown);
- 2= WH(white)
- 3= BU (blue);
- 4= BK (black);

Controls and visual indication:

There are four different selections in pressure unit available for you. You can select the unit you use according to your need

Control Indication

①	bar	Use by Europe system
②	psi	Use by North America system
③	kgf	Use by Japan system
④	Mpa	Use by International System
⑤	PNP	PNP status, Light on under connecting to the output terminal
⑥	NPN	NPN status, Light on under connecting to the output terminal
⑦	7-segment LED Display	Display of the system pressure, Parameters, and padameters values
⑧	LEARN/SET	Setting of learn mode and parameter values
⑨	MODE/ENTER	Selecting of parameters and confirmion of parameter values
⑩	Millesimal display	The value displayed should be multiplied by 10 when this dot flashes

Technical data

Applications	Gas and Liquid
Electric design	DC PNP/NPN
Operating	18...36 DC
Current load	300
Short-circuit protection	Pulse
Reverse polarity protection	Yes
Overload protection	Yes
Watchdog fuction	Yes
Voltage drop	< 2
Current consumption	< 60
Analog output	4...20 mA/0...10V Programmable
Analog output 4-20mA load [Ohm]	Max. 500
Analog output (0-10V)load [Ohm]	Min. 1000
Operating temperature	-25...80
Medium temperature	-25...80
Storage temperature	-40...100
Protection classification	IP 67
Insulation resistance[M]	> 100 (500 V DC)
Shock resistance[g]	50
Vibration resistance[g]	20
Min. switching cycles	100 billion

Socket




Type	Socket order NO.					
C I L	C	02	L	5	C	12
	C: Cable	Length 02: 2m 05: 5m 10: 10m	Connector I: Straight L: Angle	Core 4: 4 5: 5	Material R: PUR C: PVC	Socket size 12: M12

Order NO.:

Please choose different models according to your demand

Part NO.	Display	Thread type	Thread size	Sensing range	Electric design	Output1	Output2	Programmable
PA1101	7 LED	Internal thread	G1/4	2 bar	4-wire	PNP NO./NC, NPN NO./NC	0-10V, 4-20mA	Yes
PA1102	7 LED	Internal thread	G1/4	5 bar	4-wire	PNP NO./NC, NPN NO./NC	0-10V, 4-20mA	Yes
PA1103	7 LED	Internal thread	G1/4	10 bar	4-wire	PNP NO./NC, NPN NO./NC	0-10V, 4-20mA	Yes
PA1104	7 LED	Internal thread	G1/4	20 bar	4-wire	PNP NO./NC, NPN NO./NC	0-10V, 4-20mA	Yes
PA1105	7 LED	Internal thread	G1/4	50 bar	4-wire	PNP NO./NC, NPN NO./NC	0-10V, 4-20mA	Yes
PA1106	7 LED	Internal thread	G1/4	100 bar	4-wire	PNP NO./NC, NPN NO./NC	0-10V, 4-20mA	Yes
PA1107	7 LED	Internal thread	G1/4	200 bar	4-wire	PNP NO./NC, NPN NO./NC	0-10V, 4-20mA	Yes
PA1108	7 LED	Internal thread	G1/4	400 bar	4-wire	PNP NO./NC, NPN NO./NC	0-10V, 4-20mA	Yes
PB1101	NO	Internal thread	G1/4	2 bar	2-wire	4-20 mA		NO
PB1102	NO	Internal thread	G1/4	2 bar	3-wire	0-10V		NO
PB1103	NO	Internal thread	G1/4	5 bar	2-wire	4-20 mA		NO
PB1104	NO	Internal thread	G1/4	5 bar	3-wire	0-10V		NO
PB1105	NO	Internal thread	G1/4	10 bar	2-wire	4-20 mA		NO
PB1106	NO	Internal thread	G1/4	10 bar	3-wire	0-10V		NO
PB1107	NO	Internal thread	G1/4	20 bar	2-wire	4-20 mA		NO
PB1108	NO	Internal thread	G1/4	20 bar	3-wire	0-10V		NO
PB1109	NO	Internal thread	G1/4	50 bar	2-wire	4-20 mA		NO
PB1110	NO	Internal thread	G1/4	50 bar	3-wire	0-10V		NO
PB1111	NO	Internal thread	G1/4	100 bar	2-wire	4-20 mA		NO
PB1112	NO	Internal thread	G1/4	100 bar	3-wire	0-10V		NO
PB1113	NO	Internal thread	G1/4	200 bar	2-wire	4-20 mA		NO
PB1114	NO	Internal thread	G1/4	200 bar	3-wire	0-10V		NO
PB1115	NO	Internal thread	G1/4	400 bar	2-wire	4-20 mA		NO
PB1116	NO	Internal thread	G1/4	400 bar	3-wire	0-10V		NO

Accessories

Order NO.	US0004	US0005	US0006
Adapter			
Size	G1/4 — G1/2	G1/4 — G1/4	G1/4 — M20x1.5