

# PRESSURE SENSOR

PS

## FEATURE

- Measurement of vacuum, absolute or gauge pressure
- Zero adjustment as standard ( $\pm 10\%$  of range)
- Modularity of electrical and hydraulic connections
- Confirms to European EMC Directive, CE approval
- Highly resistant to severe process conditions
- Individual applications due to modular system



## TECHNICAL DATA

- Measurement Range: -1 ... 0 to -1 ... 5 bar  
0 ... 1 to 0 ... 600 bar
- Overload: 2 x measuring range
- Rupture Pressure: 3 x measuring range
- Output Signal: 4 ~ 20 mA
- Accuracy: Linearity:  $< \pm 0.5\%$  FS  
Hysteresis:  $< \pm 0.2\%$  FS  
Zero point at voltage output:  $< 50$  mV
- Zero thermal drift:  $< \pm 0.012\%$  FS/ $^{\circ}$ C
- Zero Adjustment:  $< 10\%$  of F.S.
- Span Adjustment:  $< 10\%$  of F.S.
- Response Time:  $< 5$  msec
- Load Cycle:  $< 50$  Hz

### Power

- Power Supply: 18 ~ 33 Vdc for 2 wire Loop powered  
24 Vdc for 4 wired powered
- Maximum Input Current:  $< 15$  mA
- Load Impedance:  $< 1000$   $\Omega$
- Current Consumption:  $< 20$  mA

### Environmental

- Operating temperature: Standard:  $-10^{\circ}$ C ~  $85^{\circ}$ C  
Option:  $-25^{\circ}$ C ~  $100^{\circ}$ C
- Operating relative humidity:  $\leq 95\%$  non-condensing
- Temperature coefficient:  $\leq 100$  PPM/ $^{\circ}$ C ( $0$ ~ $50^{\circ}$ C)
- Storage temperature:  $-10$ ~ $70^{\circ}$ C
- Enclosure: IP65 (DIN connector)
- Vibration resistance: 1.5 mm ( $10$ ~ $55$  Hz), 20g

### Electrical safety

- Dielectric Strength: AC 2.0KV for 1 min  
between Input / Output / Power / Case
- Insulation:  $\geq 100M$  ohm
- EMC: EN50082-1, EN50082-2  
EN50081-1, EN50081-2

### Mechanical

- Materials of Housing: Standard: Stainless Steel 304  
Option: Stainless Steel 316
- Materials of Wetted parts: Stainless Steel 316, Ceramic / Inox 1.4305

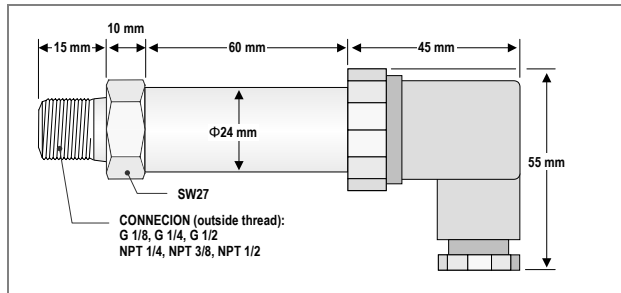
- Pressure Connection: Inside thread: G 1/4  
Outside thread:  
Standard: NPT 1/4  
Option: NPT 3/8, NPT 1/2  
G 1/4, G 3/8, G 1/2  
UNF 7/16
- Electrical Connection: DIN connector 43650-A
- Weight: About 280 g

## ASSESSORY

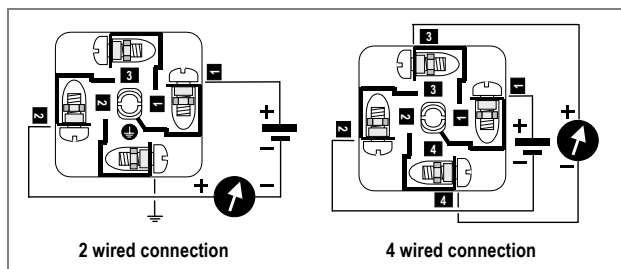
### 2 WIRED FIELD INDICATOR:

- Display: 2 x measuring range
- Alarm Output: 2 x measuring range
- Connection: 2 x measuring range
- O: 2 x measuring range
- O: 2 x measuring range

## DIMENSIONS



## CONNECTION



## ORDER INFORMATION



CODE	RANGE	CODE	RANGE	CODE	OUTPUT	CODE	CONNECTION	CODE	SENSOR SEAL
001	0~1 Bar	400	0~400 Bar	3	0~5 V	N2	1/4 NPT	1	Buna-N
002	0~2 Bar	600	0~600 Bar	4	0~10 V	N3	3/8 NPT	2	Neoprene
006	0~6 Bar	V10	-1~0 Bar	5	1~5 V	N4	1/2 NPT	3	Viton
010	0~10 Bar	B15	-1~5 Bar	D	4~20 mA	G2	G 1/4	4	Fluorosilicone
016	0~16 Bar	O	Specify	O	Specify	G3	G 3/8	5	Ethylene Propylene
020	0~20 Bar					G4	G 1/2	O	Specify
040	0~40 Bar					O	Specify		
100	0~100 Bar								
250	0~250 Bar								

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