





Applications

general industrial applications

Characteristics

- piezoresistive stainless steel sensor
- ► accuracy 0.5 % FSO according to IEC 60770
- nominal pressure ranges from 0 ... 100 mbar up to 0 ... 6 bar









Technical Data

Input pressure range											
Nominal pressure gauge	[bar]	0.1	0.16	0.25	0.4	0.6	1	1.6	2.5	4	6
Overpressure	[bar]	1	1	1	1	3	3	6	10	10	21
Burst pressure ≥	[bar]	1.5	1.5	1.5	1.5	5	5	10	17.5	17.5	35
Vacuum resistance		unlimited									

Output signal / Supply								
Standard	2-wire: $4 20 \text{ mA}$ / $V_S = 8 32 V_{DC}$							
Options 3-wire	3-wire: $0 10 \text{ V}$ / $V_S = 14 30 V_{DC}$							
	3-wire ratiometric: $10 \dots 90 \%$ of V_S / $V_S = 2.7 \dots 5 V_{DC}$							
Performance								
Accuracy ¹	$P_N > 160 \text{ mbar}$: $\leq \pm 0.5 \% \text{ FSO}$							
	P _N ≤ 160 mbar: ≤ ± 1 % FSO							
Permissible load	2-wire: $R_{\text{max}} = [(V_S - V_{S \text{ min}}) / 0.02 \text{ A}] \Omega$							
	3-wire: $R_{min} = 10 \text{ k}\Omega$							
Influence effects	supply: 0.05 % FSO / 10 V							
	load: 0.05% FSO / k Ω							
Response time	2-wire: ≤ 10 msec 3-wire: ≤ 3 msec							
Long term stability	≤ ± 0,2 % FSO / year at reference conditions							
Measuring rate	1 kHz							
¹ accuracy according to IEC 60770 – limit point adjustment (non-linearity, hysteresis, repeatability)								
Thermal effects (offset and span) / Permissible temperatures							
Thermal error	≤ ± 0.3 % FSO / 10 K in compensated range 0 70 °C							
Permissible temperatures	medium: -25 125 °C electronics / environment: -25 85 °C storage: -40 85 °C							
Electrical protection								
Short-circuit protection	permanent 3-wire ratiometric: none							
Reverse polarity protection	no damage, but also no function							
Electromagnetic compatibility	emission and immunity according to EN 61326							
Mechanical stability								
Vibration	10 g, 25 Hz 2 kHz according to DIN EN 60068-2-6							
Shock	100 g / 1 msec according to DIN EN 60068-2-27							



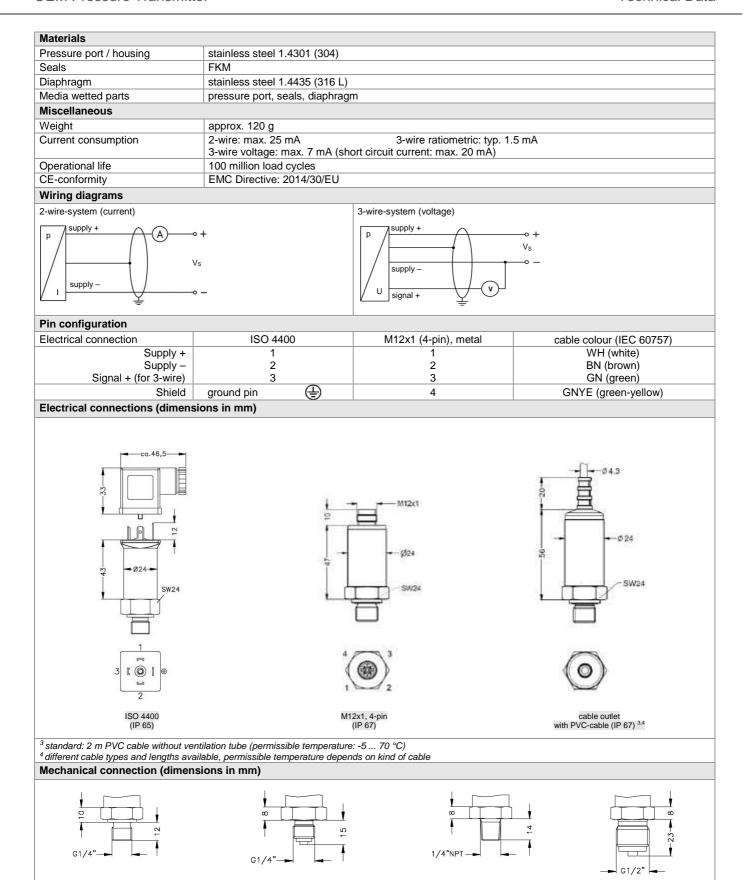
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OEM Pressure Transmitter



G1/2" EN 837

G1/4" EN 837

1/4" NPT

G1/4" DIN 3852

18.601 G
OEM Pressure Transmitter

The manufacturer provides the EU declaration of conformity.

Calibration - All production undergoes output control, which is performed by comparison with standards. The traceability of standards and working gauges is ensured in accordance with Act No. 505/1990, as amended, on metrology.

The manufacturer offers the possibility to supply sensors calibrated in the calibration laboratory of BD SENSORS, accredited according to ČSN EN ISO / IEC 17025: 2018.



	Ordering code OEM 18.601G		
3.4.2020	Ordening code Octor 10.0010		
OEM 18.601G	□□□-R-□-□-□□-□-□-□		
Input [bar]			
0 0,1	1 0 0 0		
0 0,16	1 6 0 0		
0 0,25	2 5 0 0		
0 0,4	4 0 0 0		
0 0,6	6 0 0 0		
0 1	1 0 0 1		
0 1,6	1 6 0 1		
0 2,5	2 5 0 1		
0 4	4 0 0 1		
0 6	6 0 0 1		
Customer	9 9 9 9		
Customer underpressure	$\mathbf{x} \mathbf{x} \mathbf{x} $		
Pressure			
Gauge	R		
Output			
4 20 mA / 2-wire	1		
0 10 V / 3-wire	3		
Customer	9		
Accuracy			
$0.5 \% (P_N > 160 \text{ mbar})$	5		
1 % (P _N ≤ 160 mbar)	8		
Customer	9		
Electrical connection			
Connector DIN 43650 (ISO 4400) (IP 65)	1 0 0		
Connector M12 x 1, 4-pin (IP 67)	M 0 0		
Connector M12 x 1, 4-pin (IP 67) - metal	M 1 0		
Cable outlet / cable length specify (IP 67) ¹			
+ PVC cable / 1 m			
Customer	9 9 9		
Mechanical connection			
G 1/2" DIN 3852	1 0 0		
G 1/2" EN 837	2 0 0		
G 1/4" DIN 3852	3 0 0		
G 1/4" EN 837	4 0 0		
G 1/4" internal	J 0 0		
1/4" NPT	N 4 0		
Customer	9 9 9		
Seals			
Viton (FKM)	1		
Customer	9		
Special version			
Standard	0 0 0		
Customer	9 9 9		



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0,-...without additional charge; On request... in accordance with the producer

1 - cable without through capillary (permissible temperature -5 ... +70°C)

Surcharges for calibration are not subject to any discounts. Subject to change.

This document contains the specification for ordering the product; .

detailed technical parameters of the product and its possible variants are given in the data sheet.

BD SENSORS reserves the right to change sensor specifications without further notice.



