BD|SENSORS
pressure measurement

18.601 G

OEM Pressure Transmitter

Applications

- general industrial applications

Characteristics

- piezoresistive stainless steel sensor
- accuracy 0.5 % FSO according to IEC 61298-2
- nominal pressure ranges from 0 … 100 mbar up to 0 … 40 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	10	16	25	40
Overpressure	[bar]	1	1	1	1	3	3	6	10	10	21	80	80	80	105
Burst pressure ≥	[bar]	1.5	1.5	1.5	1.5	5	5	10	17.5	17.5	35	120	120	120	160
Vacuum resistance		unlimited													

Output signal / Supply			
Standard	2-wire: 4 ... 20 mA	/	V_S = 8 ... 32 V_{DC}
Options 3-wire	3-wire: 0 ... 10 V	/	V_S = 14 ... 30 V_{DC}
	3-wire ratiometric: 10 ... 90 % of V_S	/	V_S = 2.7 ... 5 V_{DC}
Performance			
Accuracy[1]	p_N > 160 mbar: ≤ ± 0.5 % FSO p_N ≤ 160 mbar: ≤ ± 1 % FSO		
Permissible load	2-wire: $R_{max} = [(V_S - V_{S\,min}) / 0.02\ A]\ \Omega$	3-wire:	R_{min} = 10 kΩ
Influence effects	supply: 0.05 % FSO / 10 V	load:	0.05 % FSO / kΩ
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 61298-2 – 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	20 g RMS / 10 … 2000 Hz	according to DIN EN 60068-2-6	
Shock	500 g / 1 msec half sine	according to DIN EN 60068-2-27	

BD SENSORS GmbH
BD-Sensors-Straße 1
D - 95199 Thierstein

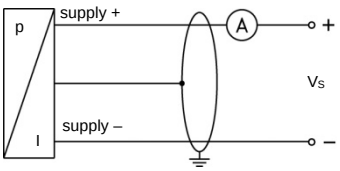
Tel.: +49 (0) 92 35 / 98 11- 0
Fax: +49 (0) 92 35 / 98 11- 11

www.bdsensors.de
info@bdsensors.de

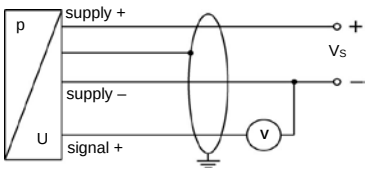
Materials	
Pressure port / housing	stainless steel 1.4301 (304)
Seals	FKM
Diaphragm	stainless steel 1.4435 (316 L)
Media wetted parts	pressure port, seals, diaphragm
Miscellaneous	
Weight	approx. 120 g
Current consumption	2-wire: max. 25 mA 3-wire ratiometric: typ. 1.5 mA 3-wire voltage: max. 7 mA (short circuit current: max. 20 mA)
Operational life	100 million load cycles
CE-conformity	EMC Directive: 2014/30/EU

Wiring diagrams

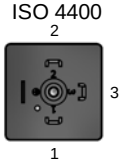
2-wire-system (current)



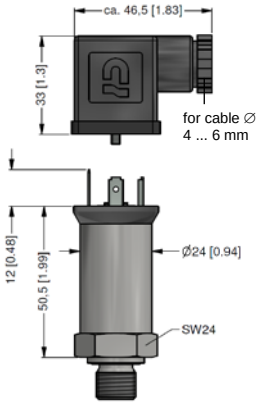
3-wire-system (voltage)



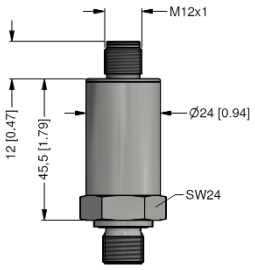
Pin configuration

Electrical connections	ISO 4400 	M12x1 (4-pin), metal	cable colours (IEC 60757)
Supply + Supply – Signal + (for 3-wire)	1 2 3	1 2 3	WH (white) BN (brown) GN (green)
Shield	ground pin ⏚	4	GNYE (green-yellow)

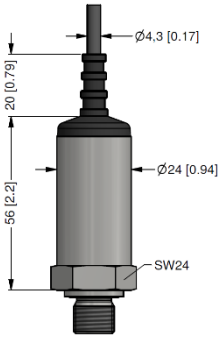
Electrical connections (dimensions mm / in)



ISO 4400
(IP 65)



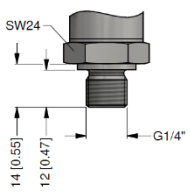
M12x1, 4-pin
(IP 67)



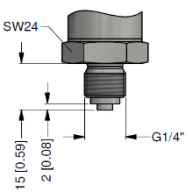
cable outlet with
PVC-cable (IP 67) [2, 3]

[2] standard: 2 m PVC cable without ventilation tube (permissible temperatur: -5 ... 70 °C)
[3] different cable types and lengths available, permissible temperatur depends on kind of cable

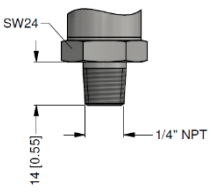
Mechanical connection (dimensions mm / in)



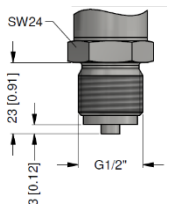
G1/4" DIN 3852



G1/4" EN 837



1/4" NPT



G1/2" EN 837

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Tel.: +49 (0) 92 35 / 98 11- 0
Fax: +49 (0) 92 35 / 98 11- 11
www.bdsensors.de
info@bdsensors.de
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Ordering code 18.601 G

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Input	**[bar]**																		
	0.10	1	0	0	0														
	0.16	1	6	0	0														
	0.25	2	5	0	0														
	0.40	4	0	0	0														
	0.60	6	0	0	0														
	1.0	1	0	0	1														
	1.6	1	6	0	1														
	2.5	2	5	0	1														
	4.0	4	0	0	1														
	6.0	6	0	0	1														
	10	1	0	0	2														
	16	1	6	0	2														
	25	2	5	0	2														
	40	4	0	0	2														
	customer	9	9	9	9														consult
Pressure																			
	gauge					R													
Output																			
	4 … 20 mA / 2-wire						1												
	0 … 10 V / 3-wire						3												
	10 … 90 % of V_S / 3-wire ratiometric						R												
	customer						9												consult
Accuracy																			
p_N > 160 mbar:	≤ ± 0.5 % FSO							5											
p_N ≤ 160 mbar:	≤ ± 1 % FSO							8											
	customer							9											consult
Electrical connection																			
	male and female plug ISO 4400								1	0	0								
	male plug M12x1 (4-pin), metal								M	2	0								
	cable outlet with 2 m PVC cable [1]								T	M	0								
	customer								9	9	9								consult
Mechanical connection																			
	G1/4" DIN 3852											3	0	0					
	G1/4" EN 837											4	0	0					
	1/4" NPT											N	4	0					
	G1/2" EN 837											2	0	0					
	customer											9	9	9					consult
Seal																			
	FKM														1				
	customer														9				consult
Special version																			
	standard															0	0	0	
	customer															9	9	9	consult

[1] standard: 2 m PVC cable without ventilation tube (permissible temperature: -5 … 70 °C)

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