



26.600 G

OEM Pressure Transmitter Standard

Applications

- ▶ mechanical and plant engineering
- ▶ general industrial applications

Characteristic

- ▶ ceramic sensor
- ▶ accuracy: 0.5 % FSO IEC 60770
- ▶ nominal pressure ranges from 0 ... 1 bar up to 0 ... 400 bar
- ▶ option: oil and grease free version

Technical Data



Input pressure range		-1...0 ¹	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400
Nominal pressure gauge [bar]	[bar]	-	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400
Nominal pressure abs. [bar]	[bar]	-	1	1.6	2.5	4	6	10	16	25	40	60	100	160	250	400
Overpressure [bar]	[bar]	3	3	4	4	10	10	20	40	40	100	100	200	400	400	650
Burst pressure ≥ [bar]	[bar]	4	4	5	5	12	12	25	50	50	120	120	250	450	450	700
Vacuum resistance		unlimited														

¹ for this pressure range accuracy is ≤ 1 % FSO IEC 60770 (≤ 0.5 % FSO BFUL)

Output signal / Supply	
Standard	2-wire: 4 ... 20 mA / V _S = 8 ... 32 V _{DC}
Options	3-wire: 0 ... 10 V / V _S = 14 ... 30 V _{DC} 3-wire ratiometric: V _{Sig} = 0.5 ... 4.5 V _S / V _S = 5 ± 0.5 V _{DC}
Performance	
Accuracy ²	≤ ± 0.5 % FSO
Permissible load	2-wire: R _{max} = [(V _S - V _{Smin}) / 0.02] Ω 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
Measuring rate	1 kHz
² 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 permissible temperatures: -25 ... 85 °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 protection	emission and immunity according to EN 61326
Mechanical stability	
Vibration	10 g, 25 Hz ... 2 kHz according to DIN EN 60068-2-6
Shock	500 g / 1 msec according to DIN EN 60068-2-27

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Technical Data

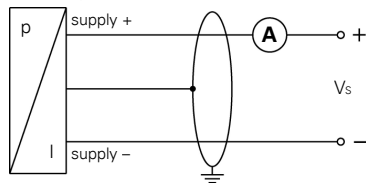
Materials	
Pressure port / housing	stainless steel 1.4301 (304)
Seals (media wetted)	FKM others on request
Diaphragm	ceramics Al ₂ O ₃ 96 %
Media wetted parts	pressure port, seals, diaphragm

Miscellaneous	
Weight	approx. 120 g
Current consumption	2-wire: max. 25 mA 3-wire ratiometric: typ. 1.5 mA 3-wire voltage: typ. 5 mA (short circuit current: max. 20 mA)
Long term stability	≤ ± 0.3 % FSO / year at reference conditions
Operational life	> 100 x 10 ⁶ cycles
CE-conformity	EMC Directive: 2004/108/EC Pressure Equipment Directive: 97/23/EC (module A) ³

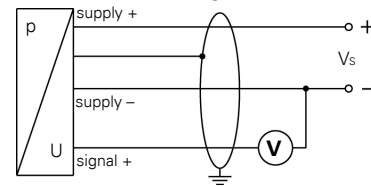
³ This directive is only valid for devices with maximum permissible overpressure > 200 bar

Wiring diagrams

2-wire-system (current)



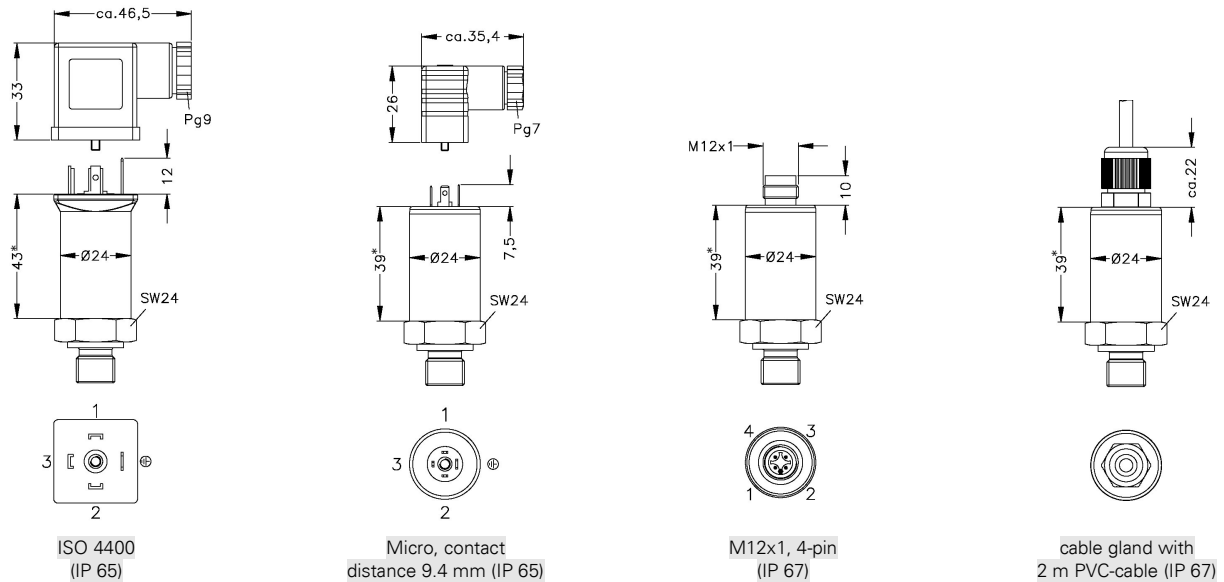
3-wire-system (voltage)



Pin configuration

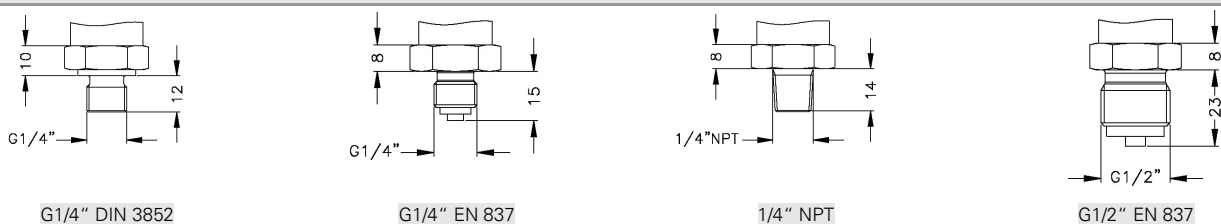
Electrical connection	ISO 4400	Micro (contact distance 9.4 mm)	M12x1 (4-pin), plastic	cable colours (DIN 47100)
Supply +	1	1	1	wh (white)
Supply -	2	2	2	bn (brown)
Signal + (for 3-wire)	3	3	3	gn (green)
Shield	ground pin	ground pin	4	gn/ye (green / yellow)

Electrical connections (dimensions in mm)



* pressure range P_N = 400 bar: total length increases by 12 mm

Mechanical connection (dimensions in mm)



This data sheet contains product specification, properties are not guaranteed. Subject to change without notice.

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

www.bdsensors.com
info@bdsensors.de

BD SENSORS
pressure measurement

