Produits > Pression > Capteurs de pression

Capteur de pression OEM - low cost de 0/1,6 bar à 0/250 bars

30.600 G

Applications

general industrial applications

general industrial applications

Characteristics

- ceramic sensor
- accuracy 1 % FSO according to IEC 60770
- nominal pressure ranges from 0 … 1.6 bar up to 0 … 250 bar

Input pressure range

Nominal pressure gauge [bar]	1.6	2.5	4	6	10	16	25	40	60	100	160	250
Overpressure [bar]	5	5	12	12	20	50	50	120	120	200	400	400
Burst pressure [bar]	7	7,5	15	18	30	70	75	150	180	300	500	750
Vacuum resistance	unlimited											

Output signal / Supply

Standard	2-wire: 4 ... 20 mA / VS = 8 ... 32 VDC
Options	3-wire: 0 ... 10 V/VS = 14 ... 30 VDC 3-wire ratiometric: 10 … 90% of VS / VS = 2.7 … 5 VDC

Performance

Accuracy 1	? ± 1 % FSO
Permissible load	2-wire: Rmax = [(VS – VS min) / 0.02 A] W 3-wire: Rmin = 10 kW
Influence effects	supply: 0.05 % FSO / 10 V load: 0.05 % FSO / kW
Response time	2-wire: ? 10 msec 3-wire: ? 3 msec
Long term stability	? ± 0.3 % 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	? ± 0.5 % FSO / 10 K (typ.) in compensated range -25 ... 85 °C

Permissible temperatures	medium: -25 ... 125 °C electronics / environment: -25 ... 85 °C storage: -40 ... 85 °C

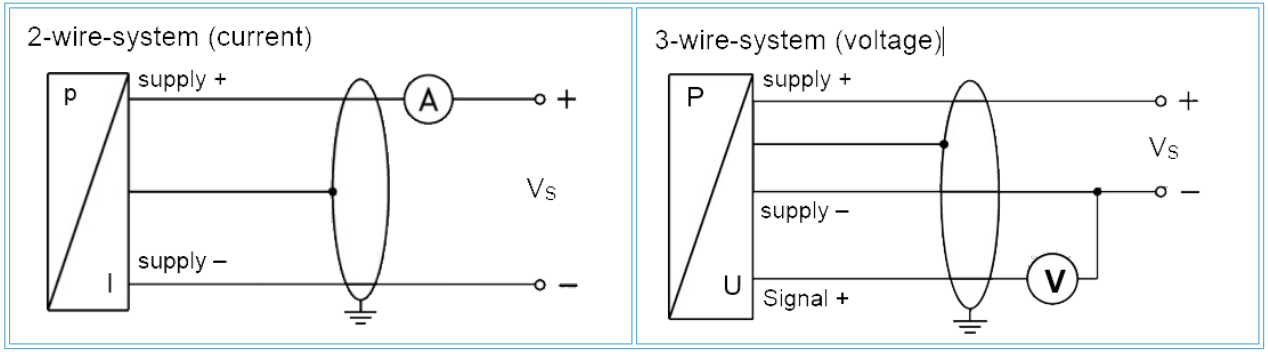
Electrical protection

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

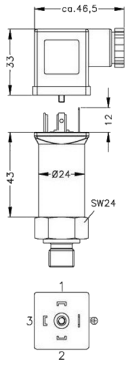
Wiring diagrams



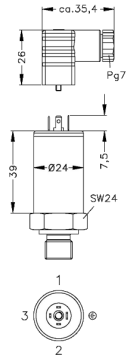
Pin Configuration

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

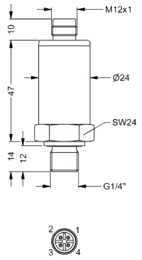
Electrical connections (dimensions in mm)



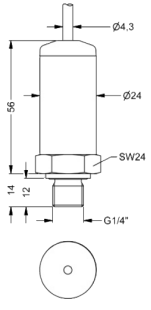
ISO 4400
(IP 65)



Micro, contact-
distance 9.4 mm (IP 65)

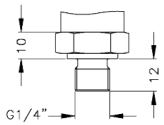


M12x1, 4-pin
(IP 67)

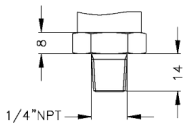


cable outlet
with PVC-cable (IP 67) 3,4

Mechanical connection (dimensions in mm)



G1/4" DIN 3852



1/4" NPT