



Description & Features:

- Universal transmitter with a high level of accuracy and stability
- Designed especially for aggressive media
- Rugged stainless steel construction with ceramic sensor
- Available ranges include in/Hg up to 8,700 psi
- Wide range of mechanical and electrical connections
- $\pm 0.25\%$ accuracy
- NEMA 4X and 6P / IP65, IP67 and IP68
- CE, CSA and RoHS compliant
- Approved for outdoor use
- Customizable
- 1 year warranty

Applications:

- Appropriate for environmental monitoring, machine tool and presses, test equipment and many other applications

Specifications

Output Signal	Standard 2-wire: 4-20 mA / $V_s = 12-36$ Vdc Optional 3-wire: 0-20 mA / $V_s = 14-36$ Vdc 0-10 V / $V_s = 14-36$ Vdc
Accuracy	$\pm 0.25\%$ FSO
Permissible Load	Current 2-wire: $R_{max} = [(V_s - V_{s \min}) / 0.02]$ Ohm Current 3-wire: $R_{max} = 500$ Ohm Voltage 3-wire: $R_{min} = 10$ kOhm
Influence Effects	Supply: 0.05% FSO / 10 V Load: 0.05% FSO / kOhm
Response Time	<10 msec
Thermal Error	< $\pm 0.2\%$ FSO / 10K In compensated range: -13°F to 185°F (-25°C to 85°C)
Permissible Temperatures	Medium: -13°F to 275°F (-25°C to 135°C) Electronics environment: -13°F to 185°F (-25°C to 85°C) Storage: -40°F to 212°F (-40°C to 100°C)
Short-circuit Protection	Permanent
Reverse Polarity Protection	No damage. No function.
Electromagnetic Protection	Emission and immunity according to EN 61326
Stability	Vibration: 10 g RMS (20 to 2,000 Hz) Shock: 100 g / 11 msec
Pollution Degree	4, electrical equipment for outdoor use
Housing	304 SS
Pressure Port	316 Ti SS
Wetted Parts	Seals: $P_N < 1450$ psi: FKM (Viton® standard, Kalrez® optional). $P_N > 1450$ psi: NBR (Buna N). Others available. Diaphragm: Ceramic Al_2O_3 96%
Weight	140 g
Current Consumption	Current: 25 mA max Voltage: 7 mA max
Operation Life	$> 100 \times 10^6$ cycles
Connecting Cables	Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shield and signal line/signal line: 1 $\mu\text{H}/\text{m}$

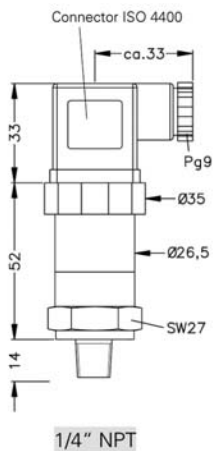
Order Codes

Range	Over-pressure	Burst Pressure	Code
0-30" Hg vac	58 psi	102 psi	LIM428
0-15 psi	29 psi	58 psi	LIM429
0-20 psi	58 psi	73 psi	LIM435
0-35 psi	58 psi	73 psi	LIM445
0-60 psi	145 psi	174 psi	LIM447
0-85 psi	145 psi	174 psi	LIM448
0-145 psi	290 psi	363 psi	LIM449
0-230 psi	580 psi	725 psi	LIM450
0-360 psi	580 psi	725 psi	LIM451
0-580 psi	1,450 psi	1,740 psi	LIM452
0-870 psi	1,450 psi	1,740 psi	LIM453
0-1,500 psi	2,901 psi	3,626 psi	LIM454
0-2,300 psi	5,802 psi	7,252 psi	LIM455
0-3,600 psi	5,802 psi	7,252 psi	LIM456
0-5,800 psi	8,702 psi	9,427 psi	LIM457
0-8,700 psi	11,603 psi	12,763 psi	LIM458

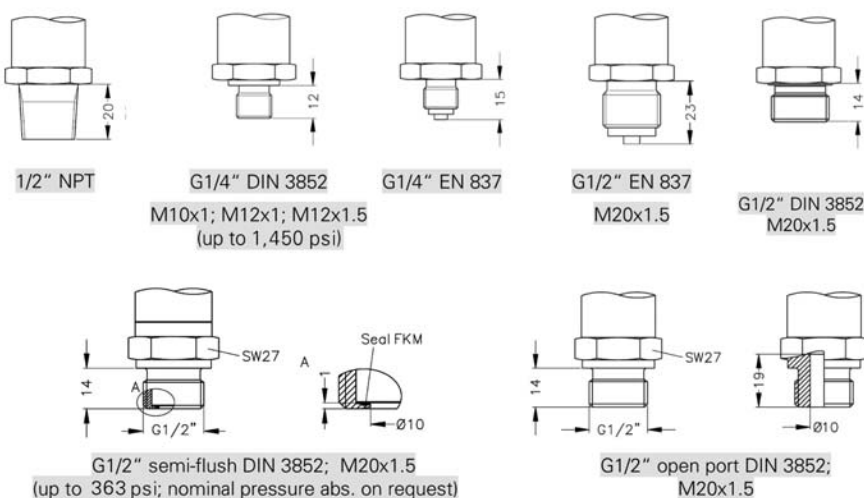
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Mechanical Connection

Standard

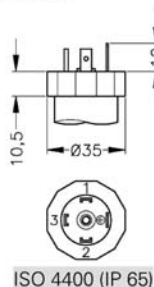


Optional

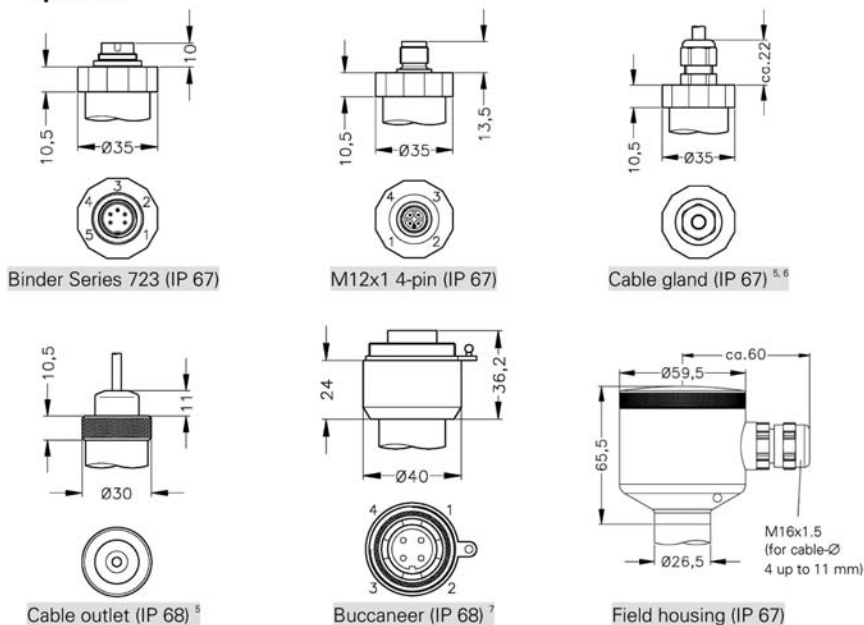


Electrical Connection

Standard



Optional



Note: Measurements are in mm

⁵ Different cable types/lengths available

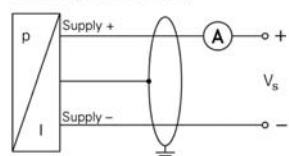
⁶ Standard: 2m PVC cable without ventilation tube. Optional: Cable with ventilation tube

⁷ For gauge pressures up to 580 psi, cable with ventilation tube required

Wiring Diagram

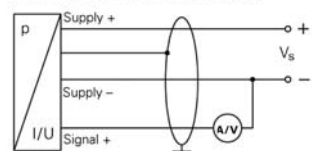
Standard

2-wire-system (current)



Optional

3-wire-system (current / voltage)



Pin Configuration

Electrical Connection	ISO 4400	Binder 723 (5-pin)	M12x1 (4-pin)	Buccaneer (4-pin)	Field Housing	Cable Colours (DIN 47100)
2-wire system	Supply+	1	3	1	IN+	White
	Supply-	2	4	2	IN-	Brown
	Ground	Ground pin	5	4	≡	Yellow/green (shield)
3-wire system	Supply+	1	3	1	IN+	White
	Supply-	2	4	2	IN-	Brown
	Signal+	3	1	3	OUT+	Green
	Ground	Ground pin	5	4	≡	Yellow/green (shield)