Description & Features:

- Unique flush stainless steel diaphragm eliminates any cavity that could form a build-up
- 316-grade thick diaphragm provides higher overpressure and spike protection
- Available ranges include vacuum up to 5,800 psi
- Wide range of mechanical and electrical connections
- Cooling tower option for increased temperature tolerance
- Optional FDA-approved food-compatible oil
- ±0.25% accuracy
- NEMA 4X and NEMA 6P / IP65, IP67 and IP68
- Customizable
- 1 year warranty

Applications:

- Best utilized in conjunction with viscous fluids or media which may clog a standard process connection, e.g. chemical & process engineering, food industry and pulp & paper

Specifications	
Output Signal	Standard 2-wire: 4-20 mA / Vs = 8-32 Vdc Optional 3-wire: 0-20 mA / Vs = 14-30 Vdc 0-10 V / Vs = 14-30 Vdc
Accuracy	±0.35% FSO
Permissible Load	Current 2-wire: Rmax = [(Vs - Vs min) / 0.02] Ohm Current 3-wire: Rmax = 500 Ohm Voltage 3-wire: Rmin = 10 kOhm
Influence Effects	Supply: 0.05% FSO / 10 V Load: 0.05% FSO / kOhm
Long-term Stability	<±0.1% FSO/yr at reference conditions
Response Time	2-wire: <10 msec 3-wire: <3 msec
Thermal Error[1]	<±0.2% FSO / 10K In compensated range: -4°F to 185°F (-20°C to 85°C)
Permissible Temperatures[2]	Medium: -40°F to 257°F (-40°C to 125°C) silicon oil 14°F to 257°F (-10°C to 125°C) food grade oil Electronics environment: -40°F to 185°F (-40°C to 85°C) Storage: -40°F to 212°F (-40°C to 100°C)
Permissible Temperature Medium for Cooling Element 572°F (300°C)	Silicon oil overpressure: -40°F to 572°F (-40°C to 300°C) Silicon oil vacuum: -40°F to 302°F (-40°C to 150°C) Food grade oil overpressure: 14°F to 482°F (-10°C to 250°C) Food grade oil vacuum: 14°F to 302°F (-10°C to 150°C)
Short-circuit Protection	Permanent
Reverse Polarity Protection	No damage. No function.
Electromagnetic Compatibility	Emission and immunity according to EN 61326
Stability	Vibration: 20 g RMS (25 to 2,000 Hz) Shock: 500 g / 1 msec
Filling Fluids	Standard: Silicon oil Optional FDA approved: Mobil DTE FM 32, Category Code: H1; NSF reg no. 130662, others available
Housing	316L SS
Pressure Port	316L SS
Wetted Parts	Seals: FKM, others available
Weight	200 g min
Current Consumption	Current: 25 mA max Voltage: 5 mA max
Operation Life	>100 x 10^6 cycles
Connecting Cables	Cable capacitance: Signal line/shield and signal line/signal line: 160 pF/m Cable inductance: Signal line/shied and signal line/signal line: 1 µH/m
Enclosure Rating	NEMA 4X and NEMA 6P / IP65, IP67 and IP68
CE Conformity	EMC directive: 2004/108/EC

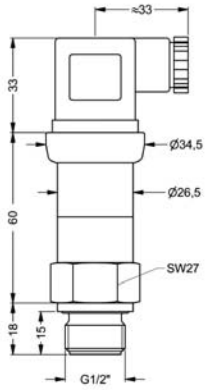
Order Codes

Range	Over-pressure	Burst Pressure	Code
0-30" Hg Vac	73 psi	109 psi	LTF30VC
0-15 psi	73 psi	109 psi	LTF0015
0-20 psi	145 psi	218 psi	LTF0020
0-35 psi	145 psi	218 psi	LTF0035
0-60 psi	254 psi	363 psi	LTF0060
0-85 psi	508 psi	725 psi	LTF0085
0-145 psi	508 psi	725 psi	LTF0145
0-230 psi	1,160 psi	1,740 psi	LTF0230
0-360 psi	1,160 psi	1,740 psi	LTF0360
0-580 psi	1,523 psi	3,046 psi	LTF0580
0-870 psi	1,450 psi	1,740 psi	LTF0870
0-1,500 psi	2,901 psi	3,626 psi	LTF1500
0-2,300 psi	5,802 psi	7,252 psi	LTF2300
0-3,600 psi	5,802 psi	7,252 psi	LTF3600
0-5,800 psi	8,702 psi	9,427 psi	LTF5800

[1] An optional cooling element can influence thermal effects for offset and span depending on installation position and filling conditions
[2] Max temperature of the medium for over-pressure>0 psi: 302°F (150°C) for 60mins with max environmental temp of 122°F (50°C)

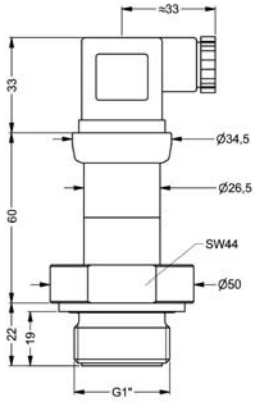
Mechanical Connection

Standard

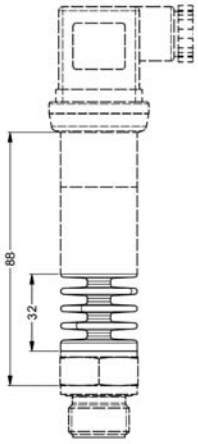


G1/2" DIN 3852
with ISO 4400

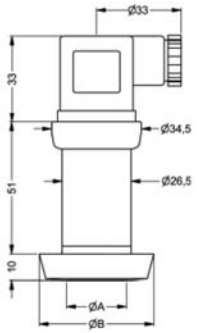
Optional



G1" DIN 3852



cooling element
300 °C [7]



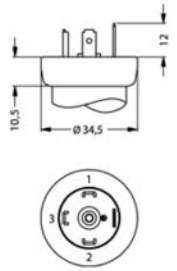
dairy pipe (DIN 11851)
with ISO 4400

dimensions in mm			
size	DN 25	DN 40	DN 50
A	23	32	45
B	44	56	68.5

Note: Available up to 580 psi

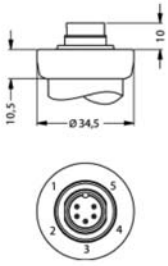
Electrical Connection

Standard

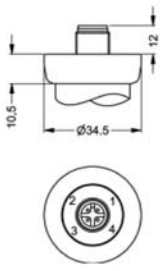


ISO 4400
(IP 65)

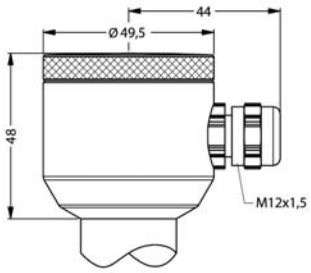
Optional



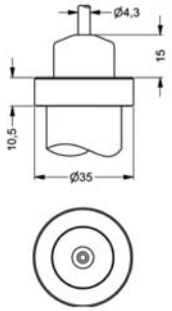
Binder Series 723 5-pin
(IP 67)



M12x1 4-pin
(IP 67)



compact field housing
(IP 67)

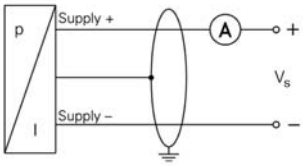


cable outlet with PVC cable
(IP 67) [6]

Wiring Diagram

Standard

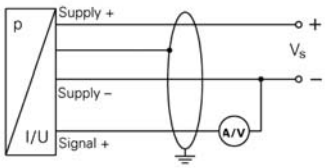
2-wire-system (current)



Pin Configuration					
Electrical Connection	ISO 4400	Binder 723 (5-pin)	M12x1/metal (4-pin)	Field Housing	Cable Colours (DIN 47100)
Supply+ Supply- Signal+ (for 3-wire)	1 2 3	3 4 1	1 2 3	IN+ IN- OUT+	White Brown Green
Shield	Ground pin	5	4	⏚	Yellow/green

Optional

3-wire-system (current / voltage)



Note: Measurements are in mm

[6] Standard: 2m PVC cable without ventilation tube
[7] Possible for nominal pressure ranges P_N < 2320 psi