

**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
- $\pm 0.50\%$ accuracy
- NEMA 4X and NEMA 6P / IP65 and IP67
- Customizable
- 5 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 and mining

| 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 | $\pm 0.50\%$ FSO |
| Permissible Load | Current 2-wire: $R_{max} = [(V_s - V_s \text{ min}) / 0.02]$ 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 |
| Long-term Stability | $\leq \pm 0.3\%$ FSO/yr at reference conditions |
| Response Time | 2-wire: ≤ 10 ms 3-wire: ≤ 3 ms |
| Thermal Error¹ | $\leq \pm 0.2\%$ FSO / 10K In compensated range: -4°F to 185°F (-20°C to 85°C) |
| Permissible Temperatures² | 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 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 ms |
| Filling Fluids | Standard: Silicon oil Optional FDA approved: Mobil SHL Cibus 32, Category Code: H1; NSF reg no. 141500, others available |
| Housing | 316L SS |
| Pressure Port | 316L SS |
| Wetted Parts | Seals: FKM, others available |
| Current Consumption | Current: 25 mA max Voltage: 7 mA max |

| | |
|--------------------------|--|
| Weight | 200 g min |
| Operating 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 μ H/m |
| Enclosure Rating | NEMA 4X and NEMA 6P / IP65 and IP67 |
| CE Conformity | EMC directive: 2004/108/EC |

Order Codes

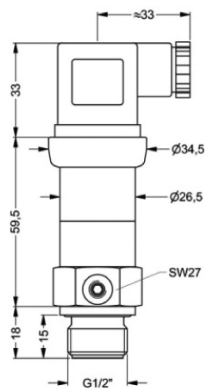
| Range | Over-pressure | Burst Pressure | Code |
|-------------|---------------|----------------|---------|
| 30" Hg Vac | 73 psi | 109 psi | LTF30VC |
| 0/15 psi | 73 psi | 109 psi | LTF0015 |
| 0/20 psi | 145 psi | 218 psi | LTF0020 |
| 0/35 psi | 145 psi | 218 psi | LTF0035 |
| 0/60 psi | 254 psi | 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

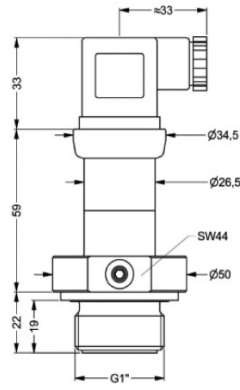
² Max temperature of the medium for overpressure > 0 psi: 302°F (150°C) for 60mins with max environmental temp of 122°F (50°C)

Mechanical Connection Standard

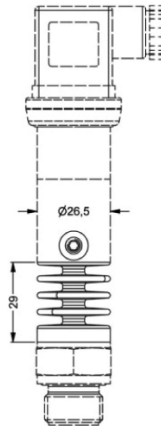
Optional



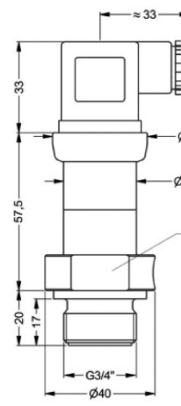
G1/2" flush DIN 3852



G1" flush DIN 3852



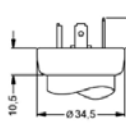
cooling element
300 °C



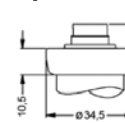
G3/4" flush DIN 3852

Electrical Connection Standard

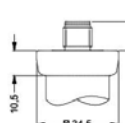
Optional



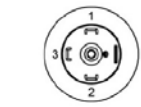
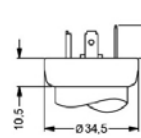
ISO 4400
(IP 65)



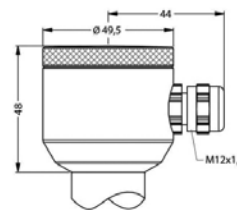
Binder Series 723 5 -pin
(IP 67)



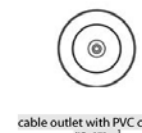
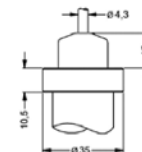
M12x1 4 -pin
(IP 67)



DIN 43650 A
1/2" NPTF conduit fitting



compact field housing
(IP 67)



cable outlet with PVC cable
(IP 67) 1

Pin Configuration

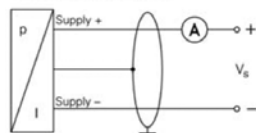
| Electrical Connection | ISO 4400 | Binder 723 (5-pin) | M12x1 (4-pin) | Field Housing | Cable Colours (DIN 47100) |
|-----------------------|------------|--------------------|---------------|---------------|---------------------------|
| Supply+ | 1 | 3 | 1 | IN+ | White |
| Supply- | 2 | 4 | 2 | IN-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

Note: Measurements are in mm

1 Standard: 2m PVC cable without ventilation tube

Wiring Diagram Standard

2-wire-system (current)



Optional

3-wire-system (current / voltage)

