

Precision Pressure Transmitter

with stainless steel sensor
Accuracy 0.1 %



Model 3385



Applications

- Mobile hydraulic, presses
- Development and laboratory
- General mechanical engineering

Characteristics

- Stainless steel sensor, welded
- Nominal pressure ranges from
0 ... 0.1 bar up to 0 ... 600 bar
- Accuracy according to IEC 60770:
0.1 % FSO



Technical Data

Measuring ranges

Negative	-1...0 bar
Positive	0...0.1 bar up to 0...600 bar
Absolute	0...0.4 bar up to 0...60 bar

Measuring accuracy

Deviation from the characteristic curve according to IEC 60770
– limit point calibration (non-linearity, hysteresis, repeatability):
 $\leq \pm 0.1$ % FSO

Overpressure safety

≤ 16 bar at least 4 x FS
(burst pressure at least 6 x FS)
 ≤ 400 bar at least 2.5 x FS
(burst pressure at least 3 x FS)
 ≥ 600 bar at least 1.5 x FS
(burst pressure at least 3 x FS)

Operating temperature range

Medium: -40...125 °C
Ambient: -40...85 °C
Storage: -40...100 °C

Temperature error band

In compensated range
 $-20...85$ °C ≤ 0.1 % FSO/10 K

Long term stability

$\leq \pm 0.1$ % FSO / year at reference conditions

Response time

2-wire: ≤ 10 ms
3-wire: ≤ 3 ms

Process connection

G1/2 A to DIN 3852-E
options: G1/4, 1/4NPT (others on request)

Materials

Housing: Stainless steel 316L (1.4404)
Pressure port: Stainless steel 316L (1.4404)
Seal: FKM

Supply voltage

2-wire: DC 10...32 V
3-wire: DC 14...30 V

Output signal

4...20 mA, 2-wire
0...10 V, 3-wire

Load

2-wire:	$R_{\max} \leq [(U_B - U_{Bmin}) / 0.02 \text{ A}] \Omega$	$I_{\max} < 25 \text{ mA}$
3-wire:	$R_{\max} = 10 \text{ k}\Omega$	$I_{\max} < 7 \text{ mA}$

Electrical protection

Short circuit proof and protected against
reverse polarity

Mechanical stability

Vibration: 10 g, 25 Hz...2 kHz DIN EN 60068-2-6
Shock: 500 g / 1 msec DIN EN 60068-2-27

Operational life

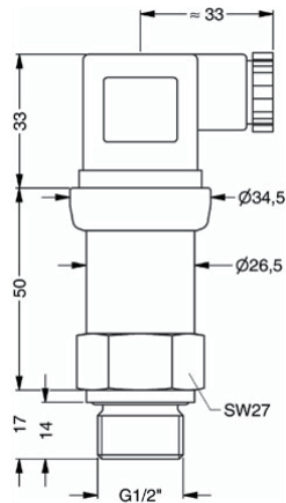
100 million load cycles

CE-conformity

EMC Directive: 2014/30/EU

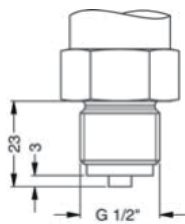
Dimensions in mm

Standard

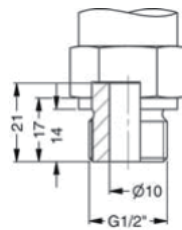


G1/2 DIN 3852

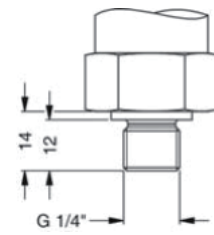
Process connections



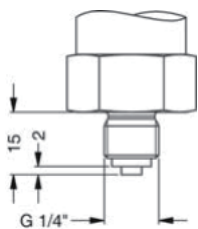
G1/2 EN 837



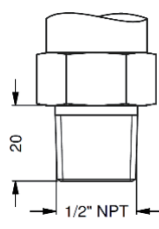
G1/2 DIN 3852



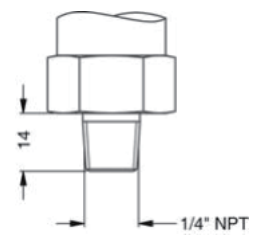
G1/4 DIN 3852



G1/4 EN 837

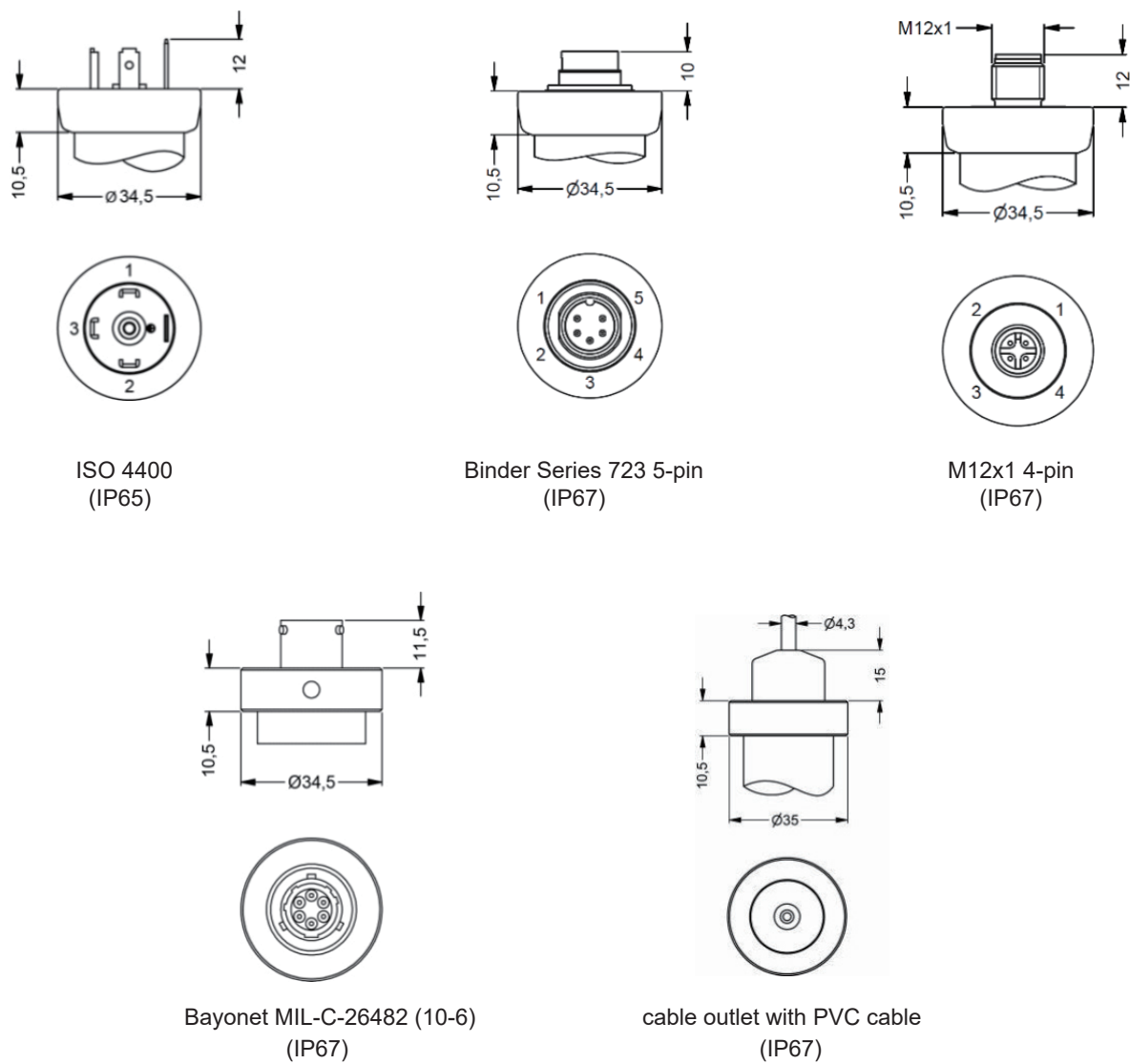


1/2 NPT



1/4 NPT

Electrical connection



Pin configuration

Electrical connection	ISO 4400	Binder 723 (5-pin)	M12x1/metal (4-pin)	Bayonet MIL-C-26482 (10-6)		cable colours (IEC 60757)
				2-wire	3-wire	
Supply +	1	3	1	A	A	WH (white)
Supply -	2	4	2	B	D	BN (brown)
Signal + (for 3-wire)	3	1	3	-	B	GN (green)
Shield	ground pin	5	4	pressure port		GNYE (green-yellow)

Order details

- 1. Model
- 2. Measuring range
- 3. Output signal
- 4. Process connection
- 5. Electrical connection
- 6. Options