

INDUSTRIAL PRESSURE TRANSMITTER



Applications

- Machine tools
- Hydraulics
- Water treatment

- Economical
- Good media compatibility
- Relative or absolute pressure measurement
- Titanium version optional

06/2014

Data sheet H72326I

Technical Data

Measuring principle	Thick film on ceramic	Accuracy @ 25°C typ.	± 0.3 % FS typ. (± 0.5 % FS typ., ± 1 % FS typ.)
Measuring range	0 ... 0.1 to 0 ... 40 bar 0 ... 1.5 to 0 ... 500 psi	Media temperature	-25°C ... 125°C
Output signal	4 ... 20 mA, 0 ... 5 VDC, 1 ... 6 VDC, 0 ... 10 VDC, 0.5 ... 4.5 VDC ratiom.		

Subject to change

Ordering information/type code

8473 . XX . XX . XX . XX . XX . XX									
Measuring range ¹⁾	Pressure measurement range [bar]	Over pressure [bar]	Burst pressure [bar]		Pressure measurement range [psi]	Over pressure [psi]	Burst pressure [psi]		
	0 ... 0.1	2	3	66	0 ... 1.5	30	45	F6	
	0 ... 0.16	2	3	67	0 ... 2	30	45	F7	
	0 ... 0.2	2	3	68	0 ... 2.5	30	45	F8	
	0 ... 0.4	2	3	69	0 ... 5	30	45	F9	
	0 ... 0.6	2	3	70	0 ... 7.5	30	45	G0	
	0 ... 1.0	2	3	71	0 ... 15	30	45	G1	
	0 ... 1.6	3.2	4.8	73	0 ... 20	40	60	G3	
	0 ... 2.5	5	7.5	75	0 ... 30	60	90	G5	
	0 ... 4	8	12	76	0 ... 50	100	150	G6	
	0 ... 6	12	15	77	0 ... 100	200	250	G7	
	0 ... 10	20	25	78	0 ... 150	300	375	G8	
	0 ... 16	32	40	79	0 ... 250	500	625	G9	
	0 ... 25	50	75	80	0 ... 400	800	1200	H0	
	0 ... 40	80	100	81	0 ... 500	1000	1250	H1	
Sensor	Relative pressure, 1.4305			54	Absolute pressure, 1.4305 ^{2) 3)}			84	
	Relative pressure, 1.4404/1.4435 ²⁾			56	Absolute pressure, 1.4404/1.4435 ^{2) 3)}			86	
	Relative pressure, 1.4462			50	Absolute pressure, 1.4462 ³⁾			80	
	Relative pressure, Titanium Grade 5			51	Absolute pressure, Titanium Grade 5 ³⁾			81	
Pressure connection	G1/4" female								10
	G1/4" male								17
	G1/2" male ²⁾								21
	1/4"NPT male ²⁾								30
	G3/4" male ^{2) 4)}								52
Electrical connection	Male electrical plug EN 175301-803-A, Mat. PA								05
	Male electrical plug M12x1, 5-pole, Mat. PA								35
	Male electrical plug industrial standard (contact distance 9.4mm) (Mat.: PBT)								01
	Male electrical plug Packard Metri Pack								51
	Cable IP67, Mat.: PVC (cable gland PA6-3) ^{5) 6)}								22
	Cable IP68 max. 3m, Medium +10°C...+35°C, max. 1 bar rel./abs.								68
Output	Output	Load resistance	I (supply)	U (supply)					
	4 ... 20 mA	(U _{Supply} -9V)/ 20mA		9 ... 30 VDC					19
	0 ... 5 VDC	> 2.5 kΩ	< 10 mA	10 ... 30 VDC					14
	1 ... 6 VDC	> 5.0 kΩ	< 10 mA	10 ... 30 VDC					16
	0 ... 10 VDC	> 5.0 kΩ	< 10 mA	15 ... 30 VDC					17
	0.5 ... 4.5 VDC	> 5.0 kΩ	< 10 mA	5 VDC ±0.25 V ratiometric					23

Accessories	O-Ring FKM (-20°C ... +125°C)	61
	O-Ring CR ≤ 100 bar (-25°C ... +100°C) ⁷⁾	62
	O-Ring EPDM (-25°C ... +125°C)	63
	Pressure peak damping element Ø 1.0 mm (for pressure connections 17 and 30)	40
	Pressure peak damping element Ø 0.3 mm (for pressure connections 17 and 30)	43
	Pressure peak damping element Ø 0.5 mm (for pressure connections 17 and 30)	45
	Female electrical connector EN 175301-803-A (DIN 43650-A)	58
	Female electrical plug M12x1, 5-pole	33
	Female electrical connector industrial standard	34
	Special electrical connection: Pin 1 + , Pin 2 - (Only for output 4...20mA and male electrical plug EN175301-803-A / DIN43650-A)	92
	Special electrical connection: Pin 1 out , Pin 2 -, Pin 3 + (Only for output 0...5VDC, 1...6VDC, 0...10VDC, 0.5...4.5VDC and male electrical plug EN175301-803-A / DIN43650-A)	98
	Special electrical connection: Pin 1 + , Pin 2 -, Pin 3 out (Only for output 0...5VDC, 1...6VDC, 0...10VDC, 0.5...4.5VDC and male electrical plug EN175301-803-A / DIN43650-A)	97
	Special electrical connection: Pin 1 + , Pin 2 - (Only for male electrical plug Packard Metri Pack 3-pol.)	99
	Cable length 1.5 m	1M
	Cable length 3.0 m	3M
	Cable length 5.0 m	5M

¹⁾ Extended overpressure as well as customized pressure ranges upon request

²⁾ Please ask us

³⁾ Only for ranges: ≥ 400 mbar or 5 psi

⁴⁾ Not for sensors 54 and 84

⁵⁾ Cable length see accessories

⁶⁾ More materials and cables with venting tubes for low pressure ranges upon request

⁷⁾ Not for pressure connection G3/4" frontal membrane



Identical construction for refrigeration:
Data sheet No. H72323



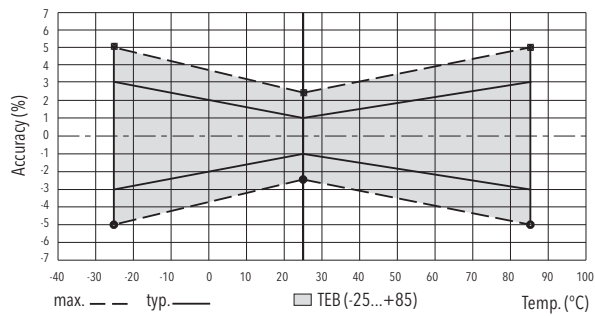
Specifications		
Electrical Data	Output / supply voltage	4...20 mA: 24 (9...30) VDC 0...5 VDC: 24 (10...30) VDC 1...6 VDC: 24 (10...30) VDC 0...10 VDC: 24 (15...30) VDC 0.5...4.5 VDC: 5 VDC ratiometric
	Rise time	Typ. 1 ms/ 10...90% nominal pressure
	Switch-on-delay	Max. 1.5 s
Environmental Conditions	Media temperature	-25°C ... 125°C
	Ambient temperature	-25°C ... 85°C
	Protection ¹⁾	Min. IP65
	Humidity	Max. 95% relative
	Vibration	4g (10...2000 Hz)
	Shock	50g/ 8 ms
EMC Protection	Emission	EN/IEC 61000-6-3
	Immunity	EN/IEC 61000-6-2
Mechanical Data	Sensor	Ceramic, Al ₂ O ₃ (96%)
	Housing / Pressure connection	54/84: 1.4305 (AISI303) 56/86: 1.4404/1.4435 (AISI316L) 50/80: 1.4462 (AISI318LN) 51/81: Titanium Grade 5
	Sealing	FKM 70 Sh CR, EPDM
	Male electrical plug	See ordering information
	Weight	~ 110 g
	Mounting torque	15...20 Nm

¹⁾ Provided female connector is mounted according to instructions

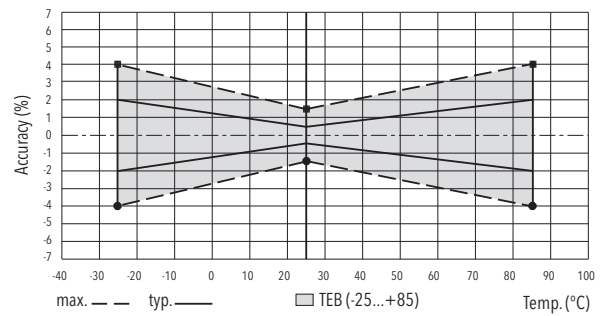
Accuracy				
Pressure measuring range	bar	> 0 ... 0.4	0 ... 0.2	0 ... 0.1
			0 ... 0.4	0 ... 0.16
	psi	> 0 ... 5	0 ... 2.5	0 ... 1.5
			0 ... 5	0 ... 2
TEB @ -25...+85°C	[% FS typ.]	± 1.0	± 2.0	± 3.0
Accuracy @ +25°C	[% FS typ.]	± 0.3	± 0.5	± 1.0
NLH @ +25°C (BSL)	[% FS typ.]	± 0.2	± 0.3	± 0.3
TC zero point and span	[% FS/K typ.]	± 0.02	± 0.02	± 0.02
Long term stability 1 year @ +25°C	[% FS typ.]	± 0.2	± 0.2	± 0.2

Additional information		
Documents	Data sheet	www.trafag.com/H72326
	Instructions	www.trafag.com/H73324
	Flyer	www.trafag.com/H70662

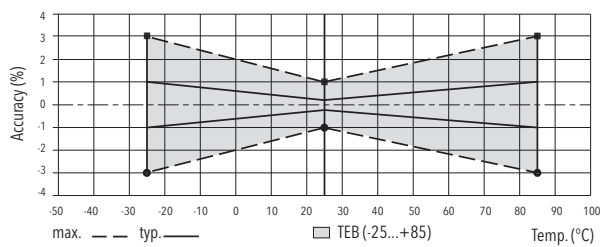
Measuring accuracy 1.0%



Measuring accuracy 0.5%



Measuring accuracy 0.3%



Electrical Connection

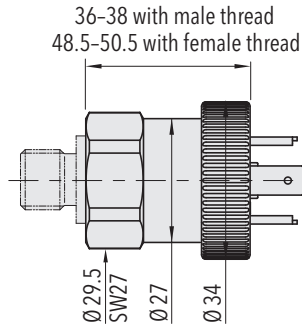
		Protection / electrical connection							
		IP65*)		IP67/IP68 max. 3m	IP67*)	IP67*)	IP65		
		Industrial standard EN175301-803A **)		Cable**)	M12x1 **)	Packet Metri Pak **)	Industrial standard EN175301-803A **)		
		05		22/68	35	51	01		
Output signal		Standard 2 1 ⊕	92 1 2 ⊕	white brown ⊕	4 1 5	1 2	99 1 3 ⊕	2 1 ⊕	
	8473.XX.XXXX.XX.19								
		Standard 2 3 1 ⊕	98 3 1 2 ⊕	97 1 3 2 ⊕	white green brown ⊕	2 4 3 5	1 3 2	99 1 2 3 ⊕	
	8473.XX.XXXX.XX.14/16/17/23								

*¹⁾ Provided female connector is mounted according to instructions

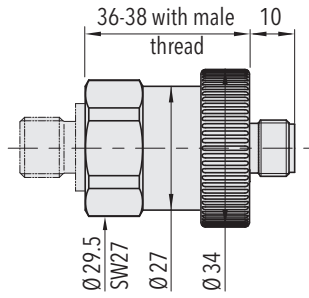
****)** Ventilation via male electric plug/cable end

***) Only cable versions or female plug with shield connection

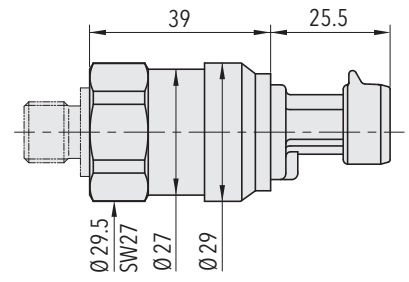
Dimensions



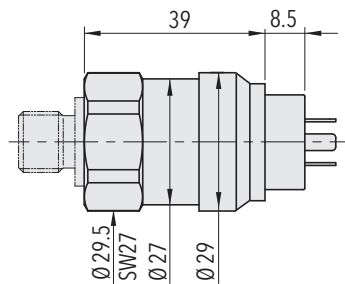
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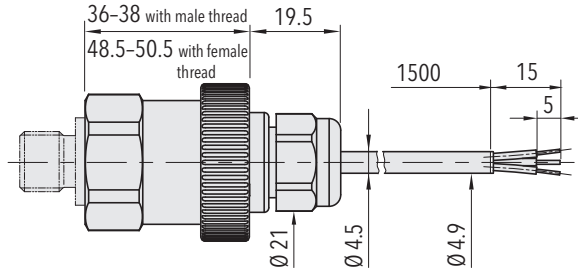
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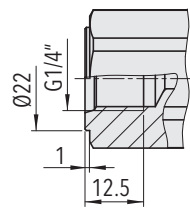
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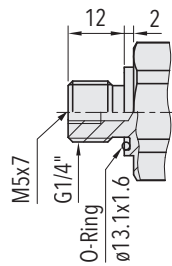
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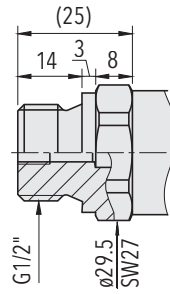
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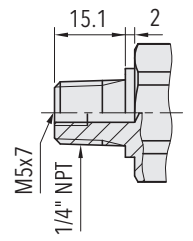
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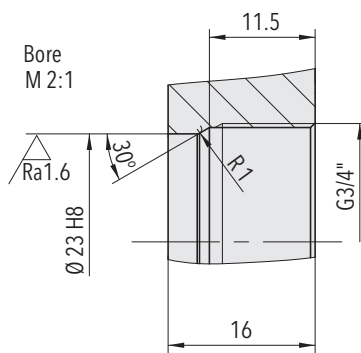
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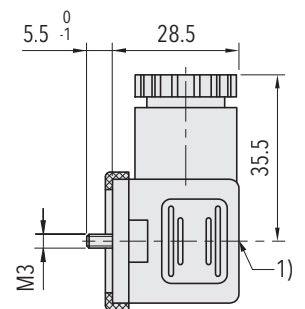
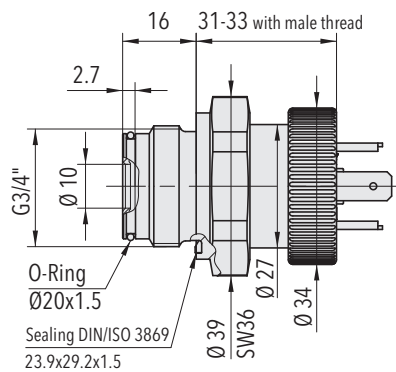
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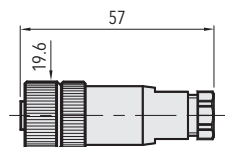


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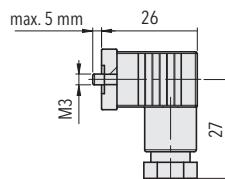


1) Tightening torque 50...60 Ncm

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