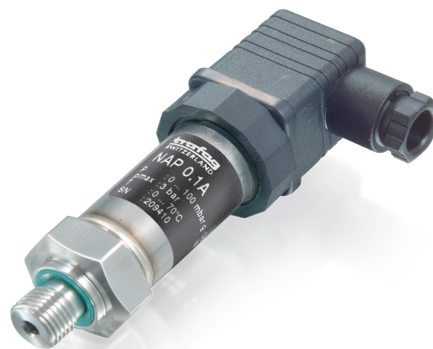


PRESSURE TRANSMITTER

Swiss based Trafag is a leading international supplier of high quality sensors and monitoring instruments for measurement of pressure and temperature.



Applications

- Shipbuilding
- Machine tools
- Hydraulics
- HVAC
- Process technology
- Water treatment
- Food Industry

Features

- Low pressure ranges (to 100 mbar)
- Media temperature to 150°C
- EMC protection, IEC 61000
- Option: Lightning protection (IEC 61000-4-5), 10kA (8/20 μs)

Technical Data

Measuring principle	Piezoresistive	Media temperature	0°C ... +80°C (opt. -25 ... +100°C/-25 ... +150°C)
Measuring range	0 ... 0.1 to 0 ... 1000 bar	Ambient temperature	0°C ... +70°C (opt. -25 ... +85°C)
Output signal	4 ... 20 mA 0 ... 10 VDC	Approval / conformity	GL, KRS

02/2017

Data sheet H7 22.30h

Subject to change

Ordering information/type code

					XXXX	XX	XX	XX	XX	XX	XX
Custom build code	Relative pressure				8842						
	Absolute pressure				8843						
Measuring range ¹⁾	Pressure measurement range [bar]	Over pressure [bar]	Burst pressure [bar]		Pressure measurement range [bar]	Over pressure [bar]	Burst pressure [bar]				
	0 ... 0.1	3	200	66	0 ... 16	48	200	79			
	0 ... 0.16	3	200	67	0 ... 25	75	200	80			
	0 ... 0.2	3	200	68	0 ... 40	120	850	81			
	0 ... 0.4	3	200	69	0 ... 60	180	850	82			
	0 ... 0.6	3	200	70	0 ... 100	300	850	83			
	0 ... 1.0	3	200	71	0 ... 160	480	850	85			
	0 ... 1.6	4.8	200	73	0 ... 250	750	850	74			
	0 ... 2.5	7.5	200	75	0 ... 400	850	850	84			
	0 ... 4	12	200	76	0 ... 600	850	850	86			
	0 ... 6	18	200	77	0 ... 1000	1500	1500	88			
	0 ... 10	30	200	78							
Sensor	Type 05 (Accuracy NLH: $\pm 0.5\%$ FS) ²⁾							P5			
	Type 02 (Accuracy NLH: $\pm 0.25\%$ FS) ²⁾							P2			
	Type 01 (Accuracy NLH: $\pm 0.1\%$ FS) ²⁾							P1			
Pressure connection	G1/4" female							10			
	G1/4" male							15			
	G1/4" male (Manometer)							20			
	G1/2" male							21			
	G1/2" male, frontal membrane							31			
	G1/2" male, flush membrane							32			
	G1/2" male (Manometer)							11			
Electrical connection	Cable PUR: Length ... (mm) IP67							22			
	Male electrical plug: DIN43650-A, Mat.: PA, IP65							04			
	Male electrical plug: Binder 723, 5-pole (Mat.: Zn), IP67							14			
	Male electrical plug: MIL-C 26482 (Mat.: Al), IP 40							02			
Output	4 ... 20 mA							19			
	4 ... 20 mA with lightning protection (Surge)							09			
	0 ... 10 VDC							17			
Accessories	Female electrical connector DIN43650 A							58			
	Female electrical connector: Binder 723							37			
	Female electrical connector: MIL-C 26482, 6-pole							32			
	Special oil filling: Aseol							94			
	Special oil filling: Halocarbon							95			
	8842: Electronics packed in gel							96			
	Cable PUR: IP67							48			
	Operating temperature -25 ... +85°C (Media temperature -25 ... +100°C)							69			
	Operating temperature -25 ... +85°C (Media temperature -25 ... +150°C)							70			
	Damping elements and snubber see data sheet H72258										

¹⁾ Customized pressure ranges upon request

²⁾ Accuracy NLH see table



Identical construction with other specifications:
Data sheet No. H72227, H72232

Standard products (extra short lead time)

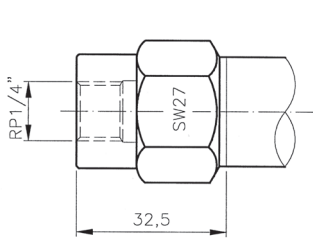
Product No.	Type Code	Pressure range [bar]	Over pressure max. [bar]	Supply [VDC]	Accuracy @ 25°C typ. [%]
NAP0.1A	8842 66 P515 04 0000 0000 19 58	0 ... 0.1	3	9 ... 33	±0.5
NAP0.2A	8842 68 P515 04 0000 0000 19 58	0 ... 0.2	3	9 ... 33	±0.5
NAP0.4A	8842 69 P515 04 0000 0000 19 58	0 ... 0.4	3	9 ... 33	±0.5
NAP0.6A	8842 70 P515 04 0000 0000 19 58	0 ... 0.6	3	9 ... 33	±0.5
NAP1.0A	8842 71 P515 04 0000 0000 19 58	0 ... 1.0	3	9 ... 33	±0.5

Specifications		
Electrical Data	Output / supply voltage	4 ... 20 mA: 9 ... 33 VDC 0 ... 10 VDC: 15 ... 30 VDC
	Load	4 ... 20 mA: $R_L \leq (U_s - 9V)/20 \text{ mA}$ 0 ... 10 VDC: $R_L > 10 \text{ k}\Omega$
	Rise time	typ. 1 ms/10...90 % nominal pressure
Environmental conditions	Media temperature	0°C ... +80°C (opt. -25 ... +100°C/-25 ... +150°C)
	Ambient temperature	0°C ... +70°C (opt. -25 ... +85°C)
	Protection ¹⁾	Min. IP65
	Humidity	Max. 95% relative
	Vibration	6g (25...2000 Hz)
	Shock	50g/ 1 ms
EMC Protection	Emission	EN/IEC 61000-6-3
	Immunity	EN/IEC 61000-6-2
Mechanical Data	Sensor (wetted parts)	1.4435 (AISI316L)
	Pressure connection (wetted parts)	1.4435 (AISI316L)
	Housing	1.4435 (AISI316L)
	Sealing	FKM 70 Sh
	Male electrical plug	See ordering information
	Weight	~ 220 g
	Mounting torque	25 Nm

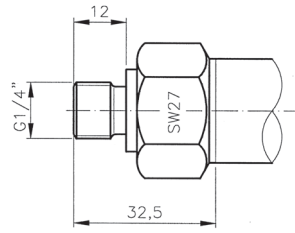
¹⁾ Provided female connector is mounted according to instructions

Accuracy						
Pressure measuring range	[bar]	0.1 ... 0.5	0.5 ... 2	2 ... 25	25 ... 600	> 600
Accuracy NLH (BSL through 0) P5	[% FS]	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5
Accuracy NLH (BSL through 0) P2	[% FS]	± 0.25	± 0.25	± 0.25	± 0.25	± 0.25
Accuracy NLH (BSL through 0) P1	[% FS]	-	± 0.1	± 0.1	± 0.1	-
Temperature coefficient zero point 0 ... +70°C	[% FS/K]	± 0.06	± 0.03	± 0.015	± 0.015	± 0.015
Temperature coefficient zero point Option -25 ... +85°C	[% FS/K]	± 0.08	± 0.04	± 0.02	± 0.02	± 0.02
Temperature coefficient span Option -25 ... +85°C	[% FS/K]	± 0.015	± 0.015	± 0.015	± 0.015	± 0.015
Temperature coefficient span Option -25 ... +85°C	[% FS/K]	± 0.02	± 0.02	± 0.02	± 0.02	± 0.02
Long term drift	[1 year]	< 4 mbar	< 4 mbar	< 0.2 % FS	< 0.2 % FS	< 0.2 % FS
Repeatability	[% FS]	± 0.05	± 0.05	± 0.05	± 0.05	± 0.05

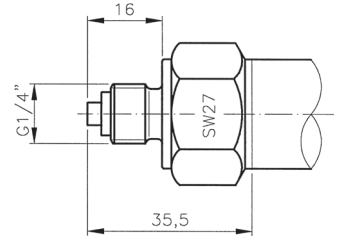
Dimensions



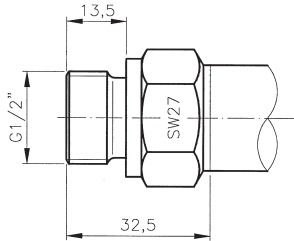
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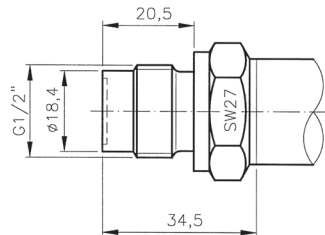
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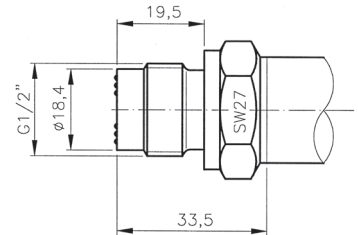
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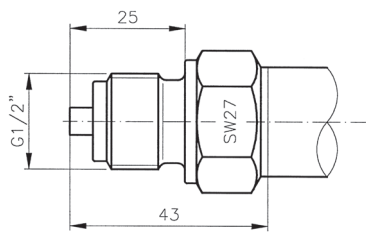
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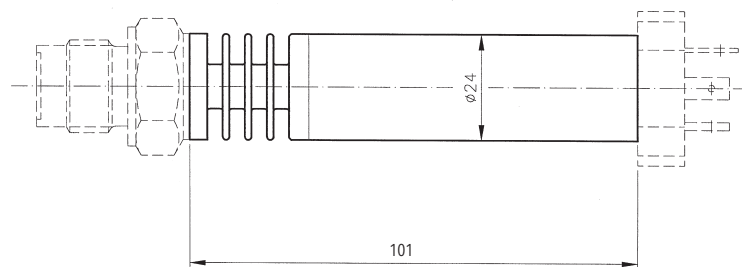
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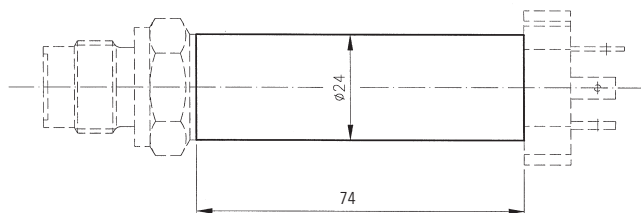
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884X.XX.XX.11.XX.XX.XX



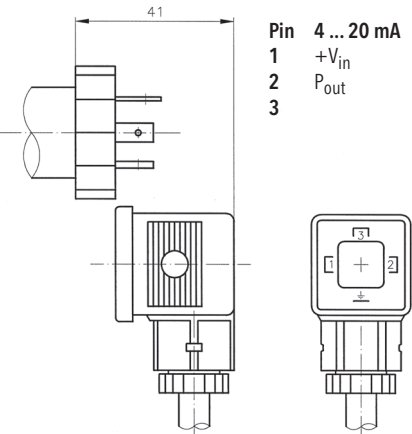
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884X.XX.XX.XX.XX.XX.XX

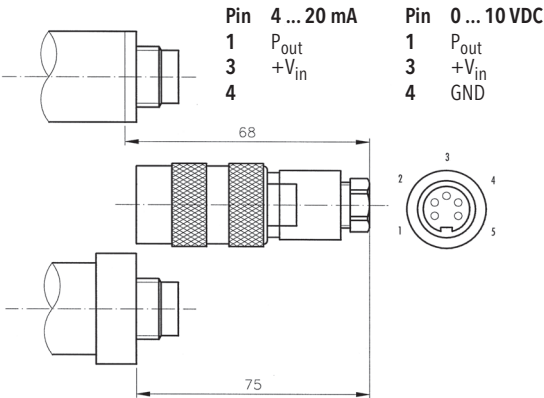
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Dimensions



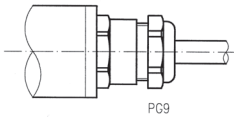
884X.XX.XX.XX.04.XX.58

Pin	4 ... 20 mA	Pin	0 ... 10 VDC
1	$+V_{in}$	1	$+V_{in}$
2	P_{out}	2	P_{out}
3		3	GND



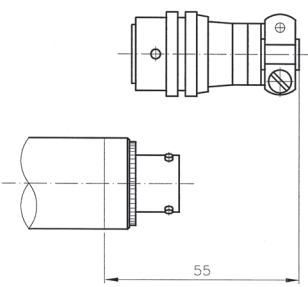
884X.XX.XX.XX.14.XX.37

Pin	4 ... 20 mA	Pin	0 ... 10 VDC
1	P_{out}	1	P_{out}
3	$+V_{in}$	3	$+V_{in}$
4		4	GND



Color	4 ... 20 mA	0 ... 10 VDC
white	$+V_{in}$	$+V_{in}$
yellow	P_{out}	GND
brown		P_{out}

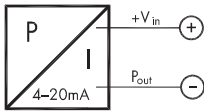
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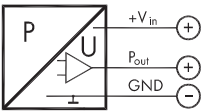
884X.XX.XX.XX.02.XX.32

Pin	4 ... 20 mA	Pin	0 ... 10 VDC
A	$+V_{in}$	A	$+V_{in}$
B		B	GND
C	P_{out}	C	P_{out}

Electrical connection



4 ... 20 mA



0 ... 10 VDC

Additional information

Documents

Data sheet	www.trafag.com/H72230
Instructions	www.trafag.com/H73208
Flyer	www.trafag.com/H70683