PRESSURE TRANSMITTER

Swiss based Trafag is a leading international supplier of high quality sensors and monitoring instruments for measurement of pressure and temperature. The pressure transmitter NAH 8254 with increased accuracy of 0.3% and optional switching outputs has an exceptionally long-term stable thin-film-on-steel sensor cell with triple (optionally 5-fold) overpressure protection. The robust design and the wide temperature range of -40°C to +125°C make the NAH 8254 the ideal solution when pressure needs to be measured accurately and reliably under rough environmental conditions.

Applications

- Machine tools
- Hydraulics
- Process technology
- Measuring and test bench technology

Features

- Measuring accuracy 0.3 %
- Completely welded steel sensor system without additional seals
- Excellent long-term stability
- Optional: 5-fold overpressure resistance
- Optional: Switching output 1 or 2 PNP transistors

09/2020
Data sheet H72304r
Subject to change

Technical Data			
Measuring principle	Thin-film-on-steel	Accuracy @ 25°C typ.	± 0.3 % FS typ.
Measuring range	0 ... 0.2 to 0 ... 700 bar 0 ... 3 to 0 ... 10000 psi	Media temperature	–40°C ... +125°C
Output signal	4 ... 20 mA, 0 ... 5 VDC, 1 ... 5 VDC, 1 ... 6 VDC, 0 ... 10 VDC and more, 0.5 ... 4.5 VDC ratiometric, Switching output: 1 or 2 PNP transistors	Ambient temperature	–40°C ... +125°C (Cable PVC 22: -5°C ... +60°C) (Cable PUR 24: -40°C ... +70°C) (Cable Radox Tenuis 88: -40°C ... +100°C)
NLH @ 25°C (BSL) typ.	± 0.2 % FS typ.		

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Ordering information/type code

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Measuring range [1]

Pressure measurement range [bar]	Over pressure [bar]	Burst pressure [bar]	
0 ... 0.2 [10]	1.2	25	68
0 ... 0.4 [10]	1.2	25	69
0 ... 0.6 [10]	1.2	25	70
0 ... 1.0 [10]	2	25	71
0 ... 1.6 [10]	3.2	50	73
0 ... 2.5	7.5	50	75
0 ... 4	12	60	76
0 ... 6	18	100	77
0 ... 10	30	200	78
0 ... 16	48	200	79
0 ... 25	75	300	80
0 ... 40	120	300	81
0 ... 60	180	400	82
0 ... 100	300	500	83
0 ... 160	480	750	85
0 ... 250	750	1000	74
0 ... 400	1000	2000	84
0 ... 600	1500	2500	86
0 ... 700	1500	2500	87
Option 5P:	**Fivefold overpressure**		
0 ... 2.5	12.5	60	55
0 ... 4	20	100	56
0 ... 6	30	200	57
0 ... 10	50	200	58
0 ... 16	80	300	59
0 ... 25	125	300	60
0 ... 40	200	400	61
0 ... 60	300	500	62
0 ... 100	500	750	63
0 ... 160	800	1000	65

Pressure measurement range [psi]	Over pressure [psi]	Burst pressure [psi]	
0 ... 3 [10]	15	350	F8
0 ... 5 [10]	15	350	F9
0 ... 10 [10]	20	350	G0
0 ... 15 [10]	30	350	G1
0 ... 25 [10]	50	700	G3
0 ... 30	90	700	G5
0 ... 50	150	850	G6
0 ... 100	300	1450	G7
0 ... 150	450	2500	G8
0 ... 200	600	2500	GA
0 ... 250	750	2500	G9
0 ... 300	900	4000	HA
0 ... 400	1200	4000	H0
0 ... 500	1500	4000	H1
0 ... 1000	3000	5000	H2
0 ... 1500	4500	7000	H3
0 ... 2000	6000	10000	H5
0 ... 3000	9000	14500	G4
0 ... 5000	12500	21750	H4
0 ... 7500	18750	29000	H6
0 ... 10000	18750	29000	H7

Sensor

Relative pressure, accuracy: 0.3 %	23

Pressure connection

G1/4" male, seal: DIN 3869 (accessory 61/63/83)	17
G1/4" male, with integrated damping Ø 0.5 mm, Seal: DIN 3869 (accessories 61/63/83)	15
G1/4" male (Manometer) EN 837	53
G1/8" male DIN3852-E, seal: accessory 61 [5]	54
1/4" NPT male	30
1/4" NPT female [5]	13
1/8" NPT male [5]	43
7/16"-20UNF female, SAE J512 with valve opener [4]	24
7/16"-20UNF female, SAE J512 without valve opener [4]	44
7/16"-20UNF male, DIN3866 [4]	18
7/16"-20UNF SAE4 male (J1926), seal: accessory 61	42
9/16"-18UNF male, SAE6 (J1926), seal: accessory 61	61
R1/4" male, DIN3858	19
R1/4" male, DIN2999 [9]	20
R1/8" male, DIN3858 [5]	16
M10x1 male, DIN EN ISO 6149-2, seal: accessory 61	32
M12x1 male, seal: accessory 61 [12]	64
M12x1.25 male, seal: accessory 61 [12]	65
M12x1.5 male, DIN EN ISO 9974-2, seal: accessory 61	49
M14x1.5 male DIN EN ISO 6149-2, seal: accessory 61 [9]	31

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Electrical connection		
	Male electrical connector, industrial standard, contact distance 9.4 mm, Mat. PA	01
	Male electrical connector M12x1, 4-pole, Mat. PA, IEC 61076-2-101	32
	Male electrical connector M12x1, 5-pole, Mat. PA, IEC 61076-2-101	35
	Male electrical connector MIL-C 26482, 6-pole, metal	02
	Male electrical connector Deutsch DT04-3P, 3-pole	D3
	Male electrical connector Deutsch DT04-4P, 4-pole	D4
	Cable Mat. PVC, IP67/IP68, 2 x 2 x 0.14 mm², max. traction on cable: 2 N [7]	22
	Cable Mat. PUR, IP67/IP68, 4 x 0.25 mm² [7]	24
	Cable Mat. EPD Raychem FDR25, IP67, 4 x 0.2 mm² [7]	08
	Cable Mat. Radox Tenuis, IP67/IP68, 4 x 0.5 mm² [7]	88

Output signal	Signal output	Load resistance	I (supply)	U (supply)	
	4 ... 20 mA	See graphic		24 (9 ... 32) VDC	19
	0.5 ... 4.5 VDC	≥ 5.0 kΩ to Us-	≤ 20 mA	24 (9 ... 32) VDC	20
	0 ... 5 VDC	≥ 5.0 kΩ to Us-	≤ 20 mA	24 (9 ... 32) VDC	14
	0.1 ... 4.1 VDC	≥ 5.0 kΩ to Us-	≤ 20 mA	24 (9 ... 32) VDC	28
	0.1 ... 5.1 VDC	≥ 5.0 kΩ to Us-	≤ 20 mA	24 (9 ... 32) VDC	29
	0.5 ... 5 VDC	≥ 5.0 kΩ to Us-	≤ 20 mA	24 (9 ... 32) VDC	22
	1 ... 5 VDC	≥ 5.0 kΩ to Us-	≤ 20 mA	24 (9 ... 32) VDC	25
	0.5 ... 5.5 VDC	≥ 5.0 kΩ to Us-	≤ 20 mA	24 (9 ... 32) VDC	24
	1 ... 6 VDC	≥ 5.0 kΩ to Us-	≤ 20 mA	24 (9 ... 32) VDC	16
	0 ... 10 VDC	≥ 5.0 kΩ to Us-	≤ 15 mA	24 (15 ... 32) VDC	17
	1 ... 10 VDC	≥ 5.0 kΩ to Us-	≤ 15 mA	24 (15 ... 32) VDC	26
	0.1 ... 10.1 VDC	≥ 5.0 kΩ to Us-	≤ 15 mA	24 (15 ... 32) VDC	13
	0.5 ... 4.5 VDC ratiom.	≥ 5.0 kΩ to Us-	≤ 10 mA	5 (4.75 ... 5.25) VDC	23
	2 PNP transistors [3]		≤ 10 mA	24 (9 ... 32) VDC	PS
	1 PNP transistor [11]		≤ 10 mA	24 (9 ... 32) VDC	T1

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Accessories	Female electrical plug M12x1, 5-pole [2]	**33**
	Female electrical plug industrial standard (for electrical connection 01)	**34**
	Pressure peak damping element ø 1.0 mm [6]	**40**
	Pressure peak damping element ø 0.4 mm [6]	**44**
	Seal FPM, -18°C ... +125°C	**61**
	Seal EPDM, -40°C ... +125°C	**63**
	Seal NBR, -25°C ... +100°C	**83**
	Special electrical connection: Pin 2 +, Pin 3 Ground, Pin 4 - (only for output signal 19 and male electrical connector 01, industrial standard)	**90**
	Special electrical connection: Pin 1 Out, Pin 2 +, Pin 3 Ground, Pin 4 - (only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 01, industrial standard)	**91**
	Special electrical connection: Pin 1 + , Pin 2 Ground, Pin 3 Out, Pin 4 - (only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 32, M12x1, 4-pole)	**95**
	Special electrical connection: Pin 1 + , Pin 2 Ground, Pin 3 -, Pin 4 Out (only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 32, M12x1, 4-pole)	**96**
	Special electrical connection: Pin 1 +, Pin 2 -, Pin 4 Ground (only for output signal 19 and male electrical connector 01, industrial standard)	**92**
	Special electrical connection: Pin 1 +, Pin 2 -, Pin 4 Ground (only for output signal 19 and male electrical connector 32, M12x1, 4-pole)	**E1**
	Special electrical connection: Pin 1 +, Pin 2 -, Pin 3 Out, Pin 4 Ground (only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 32, M12x1, 4-pole)	**E2**
	Special electrical connection: Pin 1 Out , Pin 2 -, Pin 3 +, Pin 4 Ground (only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 01, industrial standard)	**E3**
	Special electrical connection: Pin 1 +, Pin 2 -, Pin 3 Out, Pin 4 Ground (only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 01, industrial standard)	**E9**
	Special electrical connection: Pin 1 + , Pin 2 Ground, Pin 4 - (only for output signal 19 and male electrical connector 32, M12x1, 4-pole)	**E6**
	Special electrical connection: Pin A +, Pin C - (only for output signal 19 and male electrical connector Deutsch DT04-3P, 3-pole)	**F0**
	Special electrical connection: Pin A +, Pin B Out, Pin C - (only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector Deutsch DT04-3P, 3-pole)	**F1**
	Special electrical connection: Pin A +, Pin C Out, Pin B/D -, Pin E Ground (Pin B and D are connected) (only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 02, MIL-C 26482)	**F3**
	Special electrical connection: Pin 1 +, Pin 2 - (only for output signal 19 and male electrical connector 32, M12x1, 4-pole)	**F4**
	Special electrical connection: Pin 1 +, Pin 3 - (only for output signal 19 and male electrical connector 32, M12x1, 4-pole)	**F5**
	Special electrical connection: Pin 1 +, Pin 2 Out, Pin 4 - (only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 32, M12x1, 4-pole)	**F6**
	Special electrical connection: Pin 1 +, Pin 2 Out, Pin 3 - (only for output signals 13, 14, 16, 17, 20, 22, 23, 24, 25, 26, 28, 29 and male electrical connector 32, M12x1, 4-pole)	**F7**
	Cable length 0.5 m	**EM**
	Cable length 1.0 m	**1M**
	Cable length 2.0 m	**2M**
	Parameterization according to customer specification for output signal PS, T1 (see table "Parameters")	**ZC**
	Parameterization standard for output signal PS, T1 (see table "Parameters")	**ZS**
	Multiple packaging [8]	**VM**
	Signal processing, cut-off frequency (see table Signal processing)	

[1] Customized pressure ranges upon request
[2] For electrical connections 32 and 35
[3] Only with electrical connections 32, 22, 24, 08, 88
[4] Max. allowable pressure range 60 bar at 180 bar overpressure
[5] Max. allowable pressure range 160 bar at 480 bar overpressure
[6] Not for pressure connections 53, 24, 44, 18
[7] Cable length see accessories
[8] The order quantity must be a multiple of 50, only for electrical connections 01, 32, 35, 02, D3, D4, not for pressure connection 30 with electrical connections 02, D3, D4
[9] Upon request
[10] Only for pressure connections 17 and 30 and with output signal 4 ... 20 mA, code 19
[11] Only with electrical connections 32, 22, 24, 08, 88, D3
[12] Without seal, use seal geometry according DIN EN ISO 6149-2

Signal processing

Code	Cut-off frequency f_G	Rise time (10 ... 90 % nominal pressure)	Output signal			
			4 ... 20 mA	0.5 ... 4.5 VDC ratiometric	0 ... 6 VDC	0 ... 10 VDC
GA [1]	11 Hz	32 ms	x	x	-	-
GS [1] [2]	14 kHz	29 µs	x	-	-	-
GU [1] [2]	20 kHz	18 µs	-	x	-	-
Standard specification	350 Hz	1 ms	x	x	x	x

[1] Upon request

[2] Only with electrical connections 32, 35 with shielded cable and 22, 24, 08, 88, only for pressure ranges ≥ 2 bar

Standard products (extra short lead time)

Product No.	Type Code	Pressure range [bar]	Over pressure max. [bar]	Supply [VDC]	Accuracy @ 25°C typ. [%]
NAH0.2A	8254 68 2317 32 0000 0000 19 33 44 61	0 ... 0.2	1.2	9 ... 32	± 0.8
NAH0.4A	8254 69 2317 32 0000 0000 19 33 44 61	0 ... 0.4	1.2	9 ... 32	± 0.8
NAH0.6A	8254 70 2317 32 0000 0000 19 33 44 61	0 ... 0.6	1.2	9 ... 32	± 0.8
NAH1.0A	8254 71 2317 32 0000 0000 19 33 44 61	0 ... 1.0	2	9 ... 32	± 0.6
NAH1.6A	8254 73 2317 32 0000 0000 19 33 44 61	0 ... 1.6	3.2	9 ... 32	± 0.6
NAH2.5A	8254 75 2317 32 0000 0000 19 33 44 61	0 ... 2.5	7.5	9 ... 32	± 0.3
NAH4.0A	8254 76 2317 32 0000 0000 19 33 44 61	0 ... 4	12	9 ... 32	± 0.3
NAH6.0A	8254 77 2317 32 0000 0000 19 33 44 61	0 ... 6	18	9 ... 32	± 0.3
NAH10.0A	8254 78 2317 32 0000 0000 19 33 44 61	0 ... 10	30	9 ... 32	± 0.3
NAH16.0A	8254 79 2317 32 0000 0000 19 33 44 61	0 ... 16	48	9 ... 32	± 0.3
NAH25.0A	8254 80 2317 32 0000 0000 19 33 44 61	0 ... 25	75	9 ... 32	± 0.3
NAH40.0A	8254 81 2317 32 0000 0000 19 33 44 61	0 ... 40	120	9 ... 32	± 0.3
NAH100.0A	8254 83 2317 32 0000 0000 19 33 44 61	0 ... 100	300	9 ... 32	± 0.3
NAH250.0A	8254 74 2317 32 0000 0000 19 33 44 61	0 ... 250	750	9 ... 32	± 0.3
NAH400.0A	8254 84 2317 32 0000 0000 19 33 44 61	0 ... 400	1000	9 ... 32	± 0.3
NAH600.0A	8254 86 2317 32 0000 0000 19 33 44 61	0 ... 600	1500	9 ... 32	± 0.3

Parameters				
Name	**Standard setting (accessory ZS)**	**Value range**	**Short name**	**Customer adjustment (accessory ZC)**
Switch point SP1 (hysteresis mode) Upper switch point FH1 (window mode)	75 % Measuring range	> RP1, FL1 (2 ... 99 %) Hysteresis ≥ 1 % FS	SP1	
Reset point RP1 (hysteresis mode) Lower switch point FL1 (window mode)	25 % Measuring range	< SP1, FH1 (1 ... 98 %) Hysteresis ≥ 1 % FS	RP1	
Switch point SP2 (hysteresis mode) Upper switch point FH2 (window mode)	75 % Measuring range	> RP2, FL2 (2 ... 99 %) Hysteresis ≥ 1 % FS	SP2	
Reset point RP2 (hysteresis mode) Lower switch point FL2 (window mode)	25 % Measuring range	< SP2, FH2 (1 ... 98 %) Hysteresis ≥ 1 % FS	RP2	
Switch point delay time SP1 / RP1 (hysteresis mode) Switch point delay time FH1 / FL1 (window mode)	0	0; approx. 2^x[ms], x = 3, 4 ... 16	dS1	
Switch point delay time SP2 / RP2 (hysteresis mode) Switch point delay time FH2 / FL2 (window mode)	0	0; approx. 2^x[ms], x = 3, 4 ... 16	dS2	
Functions switching output 1	Hysteresis, closer (Hno)	Hysteresis NO (Hno), Hysteresis NC (Hnc) Window NO (Fno), Window NC (Fnc)	ou1	
Functions switching output 2	Hysteresis, closer (Hno)	Hysteresis NO (Hno), Hysteresis NC (Hnc) Window NO (Fno), Window NC (Fnc) Device ready	ou2	

Parameterization of switching points

The switching points, delay times and output functions can be parameterized via Smartphone app (Android). The SMI Sensor Master Interface required for the parameterization as well as the Smartphone are not part of the delivery. The Android App is available for free in the Google Play Store.

- Ordering No. SMI Sensor Master Interface: F90170
- Data sheet SMI Sensor Master Interface: H72618

Specifications		
Electrical Data	Output / supply voltage	4 ... 20 mA: 24 (9...32) VDC 0 ... 6 VDC ranges: 24 (9...32) VDC 0 ... 10.1 VDC ranges: 24 (15...32) 0.5 ... 4.5 VDC ratiom., 10 ... 90% U_{supply}: 5 ± 0.25 VDC 1 or 2 PNP transistors: 24 (9...32) VDC
	Rise time	Rise time of the supply voltage: > 32 V/s
	Power-on delay time pressure transmitters	100 ms
	Power-on delay time pressure switches	50 ms + switching delay time
	Inverse-polarity protection, short-circuit strength @ 25°C during 5 min.	4...20 mA: to U_s = 32 VDC 0 ... 6 VDC ranges, 0 ... 10.1 VDC ranges: bis U_s = 28 VDC 0.5...4.5 VDC ratiometric: to U_s = 14 VDC 1 or 2 PNP transistors: to U_s = 32 VDC
Environmental conditions	Media temperature	–40°C ... +125°C
	Ambient temperature	–40°C ... +125°C (Cable PVC 22: -5°C ... +60°C) (Cable PUR 24: -40°C ... +70°C) (Cable Radox Tenuis 88: -40°C ... +100°C)
	Protection [1)]	IP65, IP67, IP68
	Humidity	Max. 95 % relative
	Vibration	15 g RMS (20...2000 Hz) (EN60068-2-64) 25 g sin (80...2000 Hz), 1 oct./min, (1x @ 25°C) (EN60068-2-6)
	Shock	50 g / 11 ms 100 g / 6 ms Male electrical plug M12x1 (EN60068-2-27) [2)]
EMC Protection	Emission	EN/IEC 61000-6-3
	Immunity	EN/IEC 61000-6-2
Mechanical Data	Sensor (wetted parts)	1.4542 (AISI630)
	Pressure connection (wetted parts)	1.4542 (AISI630)
	Housing	1.4301 (AISI304)
	Sealing	FPM/EPDM/NBR
	Male electrical connector	See ordering information
	Weight	appr. 50 g
	Mounting torque	25 Nm

[1)] See electrical connection

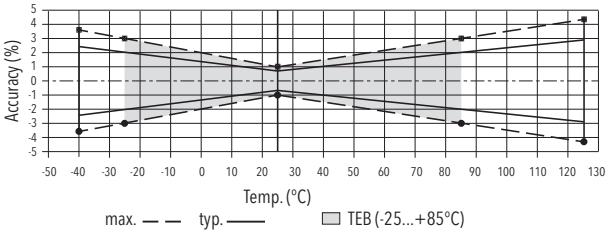
[2)] For electrical connections 32 and 35

Analogue output			≥ 0.2 bar ≤ 0.6 bar	> 0.6 bar < 2.0 bar	≥ 2.0 bar
Accuracy	TEB @ -25 ... +85°C	[% FS typ.]	± 2.0	± 1.5	± 1.0
	Accuracy @ +25°C	[% FS typ.]	± 0.8	± 0.6	± 0.3
	NLH @ +25°C (BSL)	[% FS typ.]	± 0.2	± 0.2	± 0.2
	TC zero point and span	[% FS/K typ.]	± 0.02	± 0.02	± 0.01
	Long term stability 1 year	[% FS typ.]	± 0.3	± 0.2	± 0.1
	Mounting dependency with 180° rotation (vibration and shock)	[% FS max.]	0.5 mbar	0.5 mbar	0.5 mbar
Rise time	Typ. 1 ms / 10 ... 90 % nominal pressure				

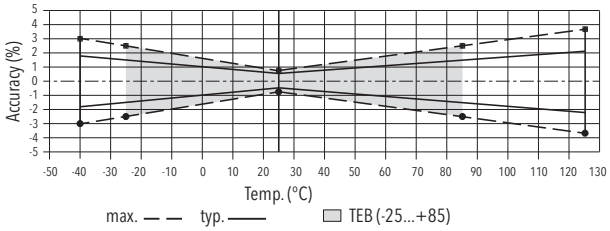
Switching output			
Accuracy	TEB @ -25 ... +85°C	[% FS typ.]	± 1.0
	Accuracy @ +25°C	[% FS typ.]	± 0.3
	Long term stability 1 year	[% FS typ.]	± 0.1
Adjustment range of switchpoints	1 ... 99 % FS		
Distance switch point Switch point > reset point	≥ 1.0 % FS Switchpoint > reset point		
Switching resistance	≤ 3 Ω		
Output function	Hysteresis, Window; normally closed (NO), normally open (NC)		
Switching current	-40°C ... +85°C +85°C ... +125°C	(Ambient and media temperature) (Ambient and media temperature)	≤ 400 mA, total of both switching outputs ≤ 200 mA, total of both switching outputs
Current limiting	integrated		
Delay time	0; approx. 2^x[ms], x = 3, 4 ... 16		
Switching frequency	max. 60 Hz (at switching delay time = 0)		

Measuring accuracy

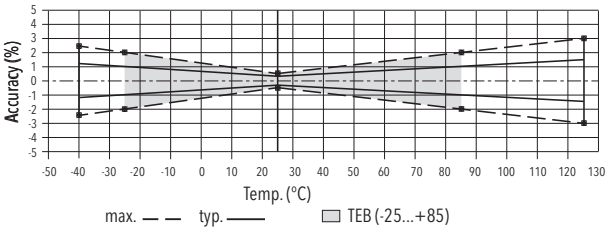
≥ 0.2 bar ... ≤ 0.6 bar



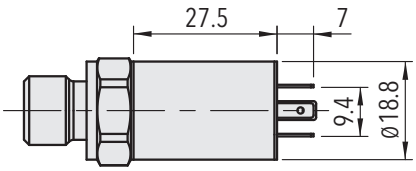
>0.6 bar ... <2.0 bar



≥ 2.0 bar



Dimensions



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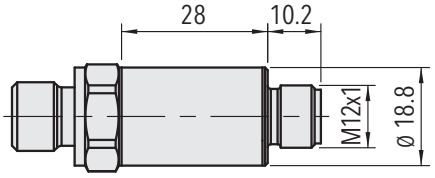

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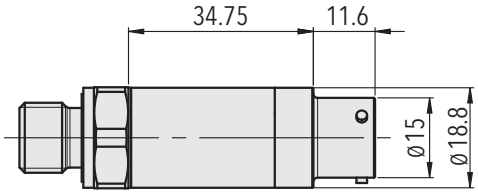

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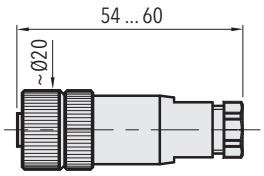

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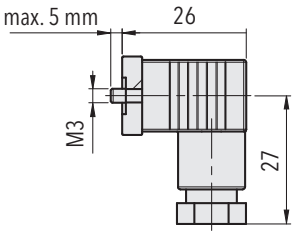
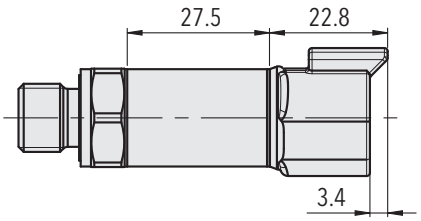


8254.XX.XXXX.XX.XX.**34**



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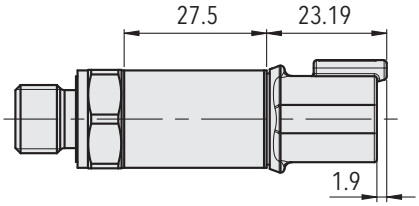
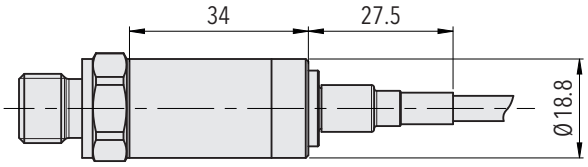
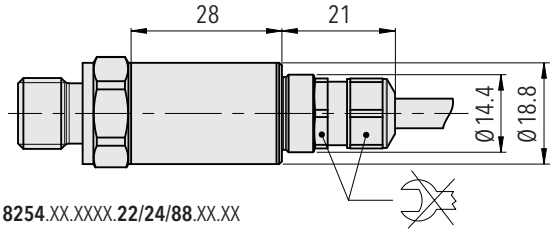


8254.XX.XXXX.**D4**.XX.XX

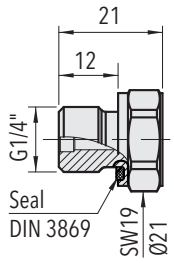


8254.XX.XXXX.**08**.XX.XX

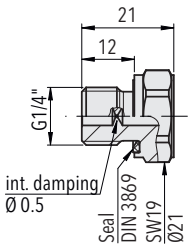


8254.XX.XXXX.**22/24/88**.XX.XX

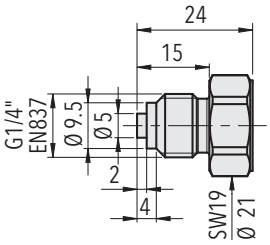
Dimensions



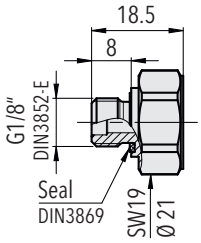
8254.XX.XX**17**.XX.XX.XX



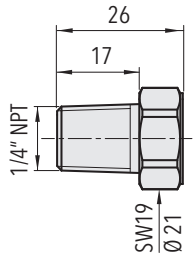
8254.XX.XX**15**.XX.XX.XX



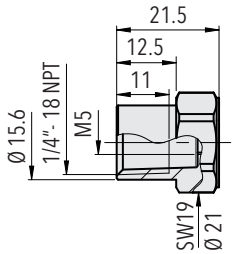
8254.XX.XX**53**.XX.XX.XX



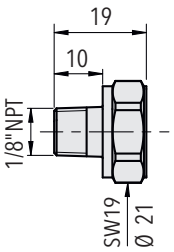
8254.XX.XX**54**.XX.XX.XX



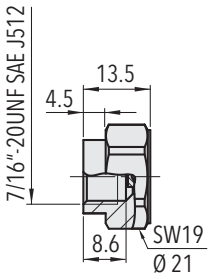
8254.XX.XX**30**.XX.XX.XX



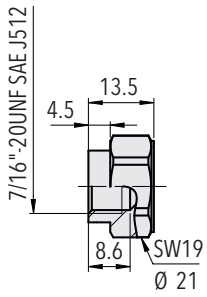
8254.XX.XX**13**.XX.XX.XX



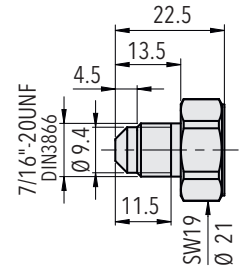
8254.XX.XX**43**.XX.XX.XX



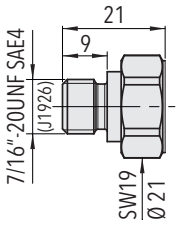
8254.XX.XX**24**.XX.XX.XX



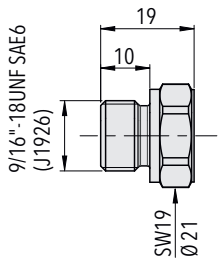
8254.XX.XX**44**.XX.XX.XX



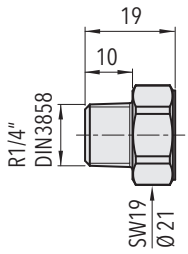
8254.XX.XX**18**.XX.XX.XX



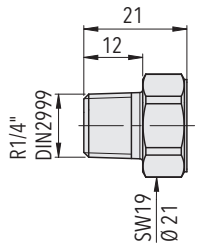
8254.XX.XX**42**.XX.XX.XX



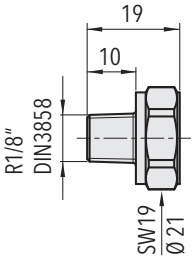
8254.XX.XX**61**.XX.XX.XX



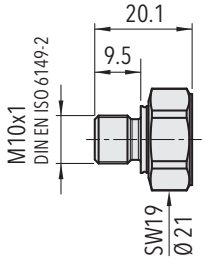
8254.XX.XX**19**.XX.XX.XX



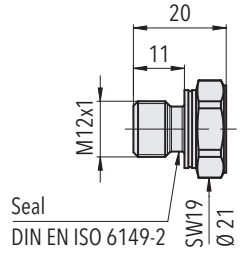
8254.XX.XX**20**.XX.XX.XX



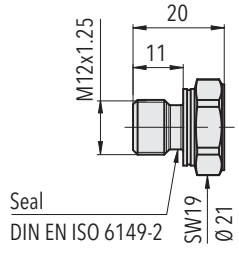
8254.XX.XX**16**.XX.XX.XX



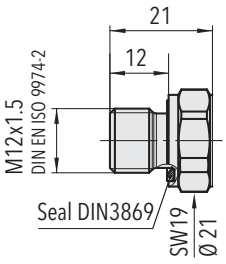
8254.XX.XX**32**.XX.XX.XX



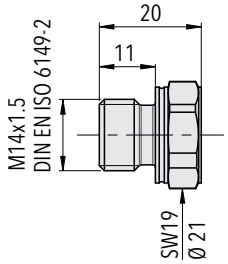
8252.XX.XX**64**.XX.XX.XX



8252.XX.XX**65**.XX.XX.XX



8254.XX.XX**49**.XX.XX.XX

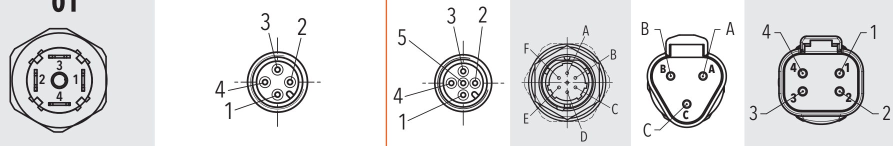


8254.XX.XX**31**.XX.XX.XX

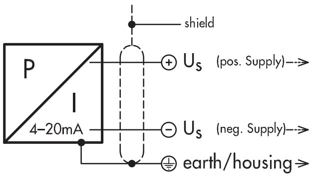
Electrical connection

Protection / electrical connection

	IP65 [1) 2)]	IP67 [1) 2)]		IP67 [1) 2)]	IP67, IP68 [1) 4)]	IP67, IP68 [1) 4)]
	Industrial standard Contact distance 9.4 mm	M12x1 4-pole	5-pole	MIL-C 26482	DT04-3P 3-pole	DT04-4P 4-pole
	01	**32**	**35**	**02**	**D3**	**D4**

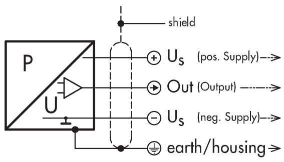


Output signal



8254.xx.xxxx.xx.**19**

	01	90	92	32	E1	E6	F4	F5	35	02	D3	F0	D4
U_S (pos. Supply)	2	2	1	1	1	1	1	1	4	A	A	A	2
U_S (neg. Supply)	1	4	2	3	2	4	2	3	1	B	B	C	1
earth/housing	4	3	4	4	4	2			5	E			3

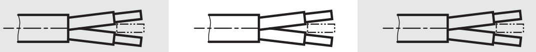


8254.xx.xxxx.xx.**13/14/16/17/20/22/23/24/25/26/28/29**

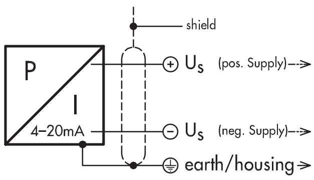
	01	91	E3	E9	32	95	96	E2	F6	F7	35	02	F3	D3	F1	D4
U_S (pos. Supply)	1	2	3	1	1	1	1	1	1	1	2	A	A	A	A	2
Out (Output)	2	1	1	3	2	3	4	3	2	2	4	B	C	C	B	4
U_S (neg. Supply)	3	4	2	2	3	4	3	2	4	3	3	C/D	B/D	B	C	1
earth/housing	4	3	4	4	4	2	2	4			5	E	E			3

Protection / electrical connection

	IP67, IP68 [2) 3)]	IP67 [2)]	IP67, IP68 [2) 3)]
	Cable **22/24**	Cable **08**	Cable **88**

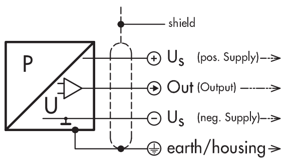


Output signal



8254.xx.xxxx.xx.**19**

	22/24	08	88
U_S (pos. Supply)	white	red	brown
U_S (neg. Supply)	brown	black	black
earth/housing	yellow	green	yellow / green



8254.xx.xxxx.xx.**13/14/16/17/20/22/23/24/25/26/28/29**

	22/24	08	88
U_S (pos. Supply)	white	red	brown
Out (Output)	green	white	blue
U_S (neg. Supply)	brown	black	black
earth/housing	yellow	green	yellow / green

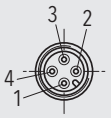
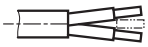
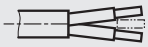
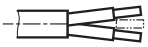
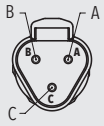
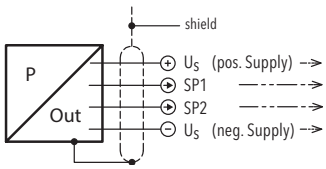
1) Provided female electrical plug is mounted according to instructions

2) Ventilation via male electric plug/cable end

3) IP68, 20 bar, 30 min.

4) IP68, 100 mbar, 4h

Electrical connection

	Protection / electrical connection								
	IP67 [1) 2)]		IP67, IP68 [2) 3)]		IP67 [2)]		IP67, IP68 [2) 3)]		IP67, IP68 [1) 4)]
	M12x1 4-pole **32**		Cable **22/24**		Cable **08**		Cable **88**		DT04-3P 3-pole **D3**
									
Output signal	**PS**	**T1**	**PS**	**T1**	**PS**	**T1**	**PS**	**T1**	**T1**
 **8254**.xx.xxxx.xx.**PS/T1**	1 4 2 3	1 4 – 3	white green yellow brown	white green – brown	red white green black	red white – black	brown blue yellow / green black	brown blue – black	A C – B

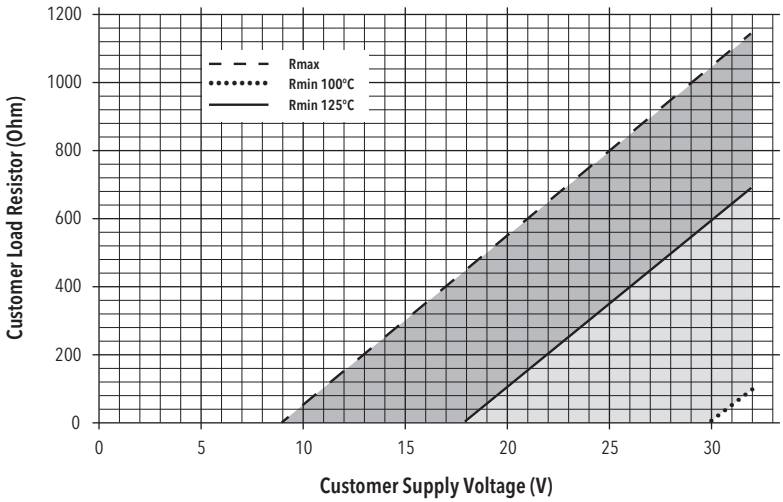
[1)] Provided female electrical plug is mounted according to instructions

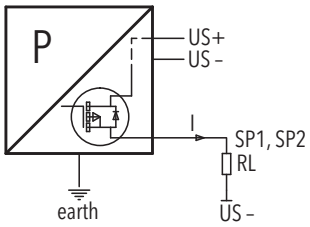
[2)] Ventilation via male electric plug/cable end

[3)] IP68, 20 bar, 30 min.

[4)] IP68, 100 mbar, 4h

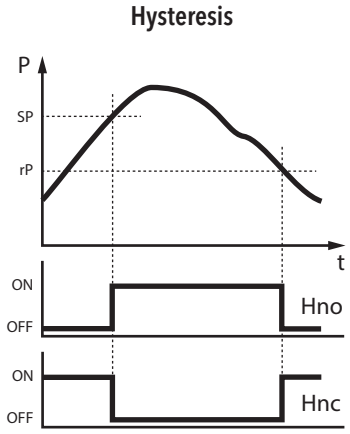
4...20mA: min./max resistor vs. supply voltage @ Pmax = 100%

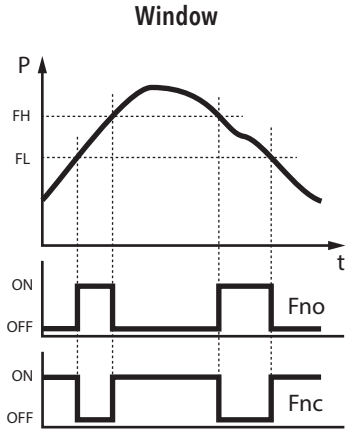


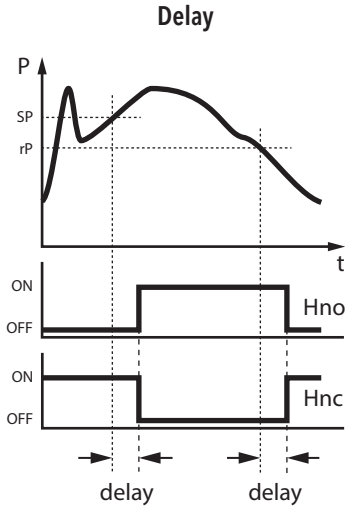


Connection of loads to switching output

Functions switching output







Additional information		
Documents	Data sheet	www.trafag.com/H72304
	Instructions	www.trafag.com/H73303
	Flyer	www.trafag.com/H70682