

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

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.		

Ordering information/type code

				8254 . 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 ... 0.2 ¹⁰⁾	1.2	25	68	0 ... 3 ¹⁰⁾	15	350	F8	
	0 ... 0.4 ¹⁰⁾	1.2	25	69	0 ... 5 ¹⁰⁾	15	350	F9	
	0 ... 0.6 ¹⁰⁾	1.2	25	70	0 ... 10 ¹⁰⁾	20	350	G0	
	0 ... 1.0 ¹⁰⁾	2	25	71	0 ... 15 ¹⁰⁾	30	350	G1	
	0 ... 1.6 ¹⁰⁾	3.2	50	73	0 ... 25 ¹⁰⁾	50	700	G3	
	0 ... 2.5	7.5	50	75	0 ... 30	90	700	G5	
	0 ... 4	12	60	76	0 ... 50	150	850	G6	
	0 ... 6	18	100	77	0 ... 100	300	1450	G7	
	0 ... 10	30	200	78	0 ... 150	450	2500	G8	
	0 ... 16	48	200	79	0 ... 200	600	2500	GA	
	0 ... 25	75	300	80	0 ... 250	750	2500	G9	
	0 ... 40	120	300	81	0 ... 300	900	4000	HA	
	0 ... 60	180	400	82	0 ... 400	1200	4000	H0	
	0 ... 100	300	500	83	0 ... 500	1500	4000	H1	
	0 ... 160	480	750	85	0 ... 1000	3000	5000	H2	
	0 ... 250	750	1000	74	0 ... 1500	4500	7000	H3	
	0 ... 400	1000	2000	84	0 ... 2000	6000	10000	H5	
	0 ... 600	1500	2500	86	0 ... 3000	9000	14500	G4	
	0 ... 700	1500	2500	87	0 ... 5000	12500	21750	H4	
					0 ... 7500	18750	29000	H6	
					0 ... 10000	18750	29000	H7	
	Option 5P:	Fivefold overpressure			Option:	Maximum Overpressure			
	0 ... 2.5	12.5	60	55	0 ... 30	150	1450	E5	
	0 ... 4	20	100	56	0 ... 50	180	1450	E6	
	0 ... 6	30	200	57	0 ... 100	450	3500	E7	
	0 ... 10	50	200	58	0 ... 150	700	4250	E8	
	0 ... 16	80	300	59	0 ... 200	700	4250	EA	
	0 ... 25	125	300	60	0 ... 250	1150	5750	E9	
	0 ... 40	200	400	61	0 ... 300	1150	5750	FA	
	0 ... 60	300	500	62	0 ... 400	1800	8500	F0	
	0 ... 100	500	750	63	0 ... 500	1800	8500	F1	
	0 ... 160	800	1000	65	0 ... 1000	4600	19000	F2	
Sensor	Relative pressure, accuracy: 0.3 %								23
Pressure connection	G1/4" male, seal: DIN 3869 (accessory 61/63/83)	17			7/16"-20UNF SAE4 male (J1926), seal: accessory 61	42			
	G1/4" male, with integrated damping Ø 0.5 mm, Seal: DIN 3869 (accessories 61/63/83)	15			9/16"-18UNF male, SAE6 (J1926), seal: accessory 61	61			
	G1/4" male (Manometer) EN 837	53			R1/4" male, DIN3858	19			
	G1/8" male DIN3852-E, seal: accessory 61 ⁵⁾	54			R1/4" male, DIN2999 ⁹⁾	20			
	1/4" NPT male	30			R1/8" male, DIN3858 ⁵⁾	16			
	1/4" NPT female ⁵⁾	13			M10x1 male, DIN EN ISO 6149-2, seal: accessory 61	32			
	1/8" NPT male ⁵⁾	43			M12x1 male, seal: accessory 61 ¹²⁾	64			
	7/16"-20UNF female, SAE J512 with valve opener ⁴⁾	24			M12x1.25 male, seal: accessory 61 ¹²⁾	65			
	7/16"-20UNF female, SAE J512 without valve opener ⁴⁾	44			M12x1.5 male, DIN EN ISO 9974-2, seal: accessory 61	49			
	7/16"-20UNF male, DIN3866 ⁴⁾	18			M14x1.5 male DIN EN ISO 6149-2, seal: accessory 61 ⁹⁾	31			

Electrical connection	Male electrical connector, industrial standard, contact distance 9.4 mm, Mat. PA, EN 175301-803C				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 mm ² , max. traction on cable: 2 N ⁷⁾				22		
	Cable Mat. PUR, IP67/IP68, 4 x 0.25 mm ² , shielded ⁷⁾				24		
	Cable Mat. EPD Raychem FDR25, IP67, 4 x 0.2 mm ² , shielded ⁷⁾				08		
	Cable Mat. Radox Tenuis, IP67/IP68, 4 x 0.5 mm ² , shielded 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 U _s	≤ 20 mA	24 (9 ... 32) VDC		20	
	0 ... 5 VDC	≥ 5.0 kΩ to U _s	≤ 20 mA	24 (9 ... 32) VDC		14	
	0.1 ... 4.1 VDC	≥ 5.0 kΩ to U _s	≤ 20 mA	24 (9 ... 32) VDC		28	
	0.1 ... 5.1 VDC	≥ 5.0 kΩ to U _s	≤ 20 mA	24 (9 ... 32) VDC		29	
	0.5 ... 5 VDC	≥ 5.0 kΩ to U _s	≤ 20 mA	24 (9 ... 32) VDC		22	
	1 ... 5 VDC	≥ 5.0 kΩ to U _s	≤ 20 mA	24 (9 ... 32) VDC		25	
	0.5 ... 5.5 VDC	≥ 5.0 kΩ to U _s	≤ 20 mA	24 (9 ... 32) VDC		24	
	1 ... 6 VDC	≥ 5.0 kΩ to U _s	≤ 20 mA	24 (9 ... 32) VDC		16	
	0 ... 10 VDC	≥ 5.0 kΩ to U _s	≤ 15 mA	24 (15 ... 32) VDC		17	
	1 ... 10 VDC	≥ 5.0 kΩ to U _s	≤ 15 mA	24 (15 ... 32) VDC		26	
	0.1 ... 10.1 VDC	≥ 5.0 kΩ to U _s	≤ 15 mA	24 (15 ... 32) VDC		13	
	0.5 ... 4.5 VDC ratiom.	≥ 5.0 kΩ to U _s	≤ 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	

Accessories	Female electrical plug M12x1, 5-pole ²⁾	33
	Female electrical plug industrial standard (for electrical connection 01), EN 175301-803C	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 3 Ground, 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 13, 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 μ s	x	-	-	-
GU ^{1) 2)}	20 kHz	18 μ s	-	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

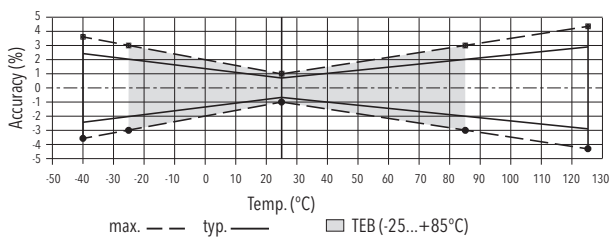
			$\geq 0.2 \text{ bar}$ $\leq 0.6 \text{ bar}$	$> 0.6 \text{ bar}$ $< 2.0 \text{ bar}$	$\geq 2.0 \text{ bar}$
Accuracy	TEB @ -25 ... +85°C	[% FS typ.]	± 2.0	± 1.5	± 1.0
	Accuracy @ +25°C	[% FS typ.]	± 0.8	± 0.6	± 0.3
	NLH @ +25°C (BSL)	[% FS typ.]	± 0.2	± 0.2	± 0.2
	TC zero point and span	[% FS/K typ.]	± 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

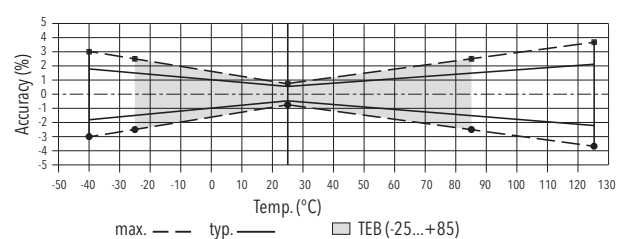
Accuracy	TEB @ -25 ... +85°C	[% FS typ.]	± 1.0
	Accuracy @ +25°C	[% FS typ.]	± 0.3
	Long term stability 1 year	[% FS typ.]	± 0.1
Setting range of switchpoints	1 ... 99 % FS		
Distance switch point	$\geq 1.0 \text{ % FS}$		
Switch point > reset point	Switchpoint > reset point		
Switching resistance	$\leq 3 \Omega$		
Output function	Hysteresis, Window; normally closed (NO), normally open (NC)		
Switching current	-40°C ... +85°C	(Ambient and media temperature)	$\leq 400 \text{ mA}$, total of both switching outputs
	+85°C ... +125°C	(Ambient and media temperature)	$\leq 200 \text{ mA}$, total of both switching outputs
Current limiting	integrated		
Life time	$> 100 \times 10^6$ cycles		
Delay time	0; approx. $2^x [\text{ms}]$, $x = 3, 4 \dots 16$		
Switching frequency	max. 60 Hz (at switching delay time = 0)		

Measuring accuracy

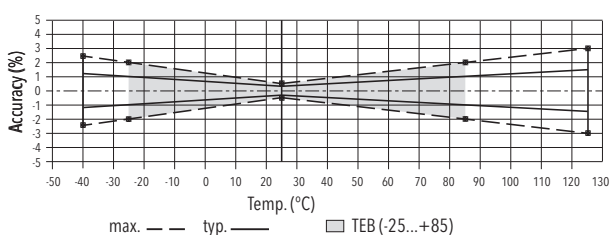
$\geq 0.2 \text{ bar} \dots \leq 0.6 \text{ bar}$



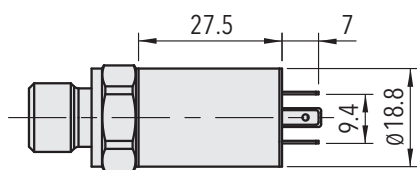
$> 0.6 \text{ bar} \dots < 2.0 \text{ bar}$



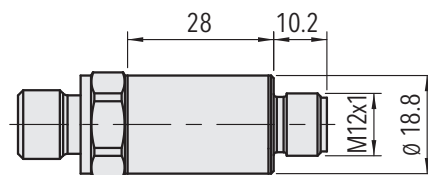
$\geq 2.0 \text{ bar}$



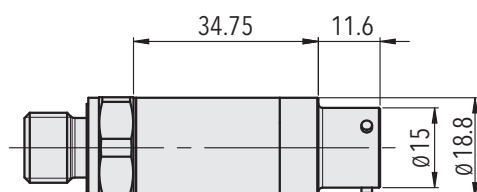
Dimensions



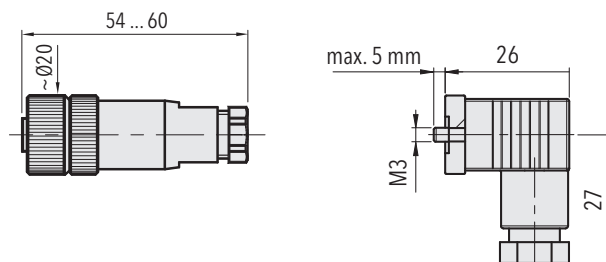
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8254.XX.XXXX.32/35.XX.XX

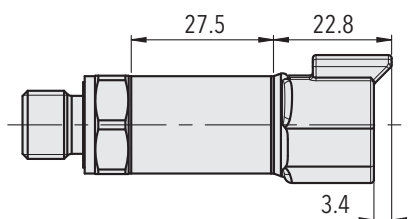


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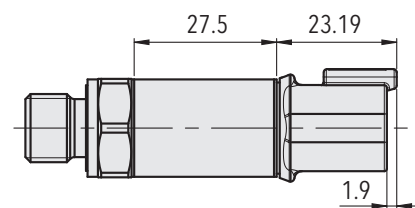


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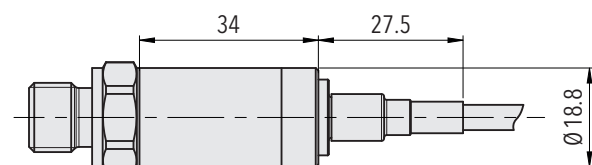
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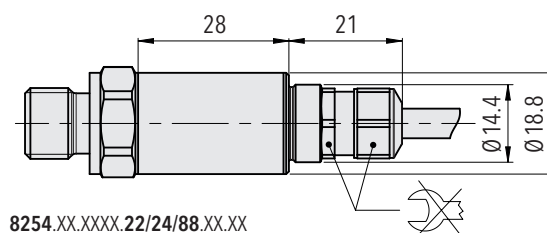
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8254.XX.XXXX.D4.XX.XX

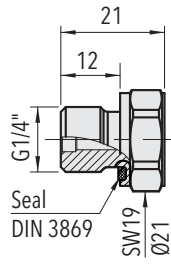


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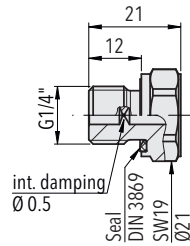


8254.XX.XXXX.22/24/88.XX.XX

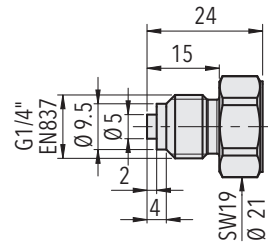
Dimensions



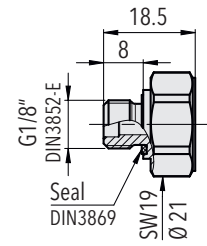
8254.XX.XX17.XX.XX.XX



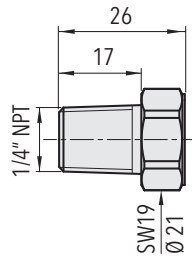
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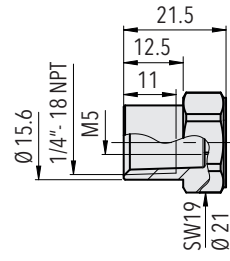
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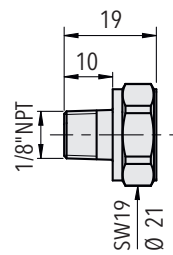
8254.XX.XX54.XX.XX.XX



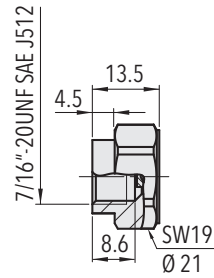
8254.XX.XX30.XX.XX.XX



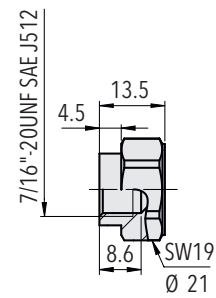
8254.XX.XX13.XX.XX.XX



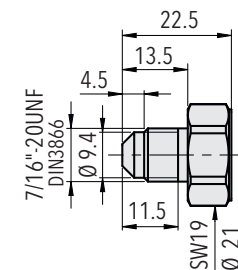
8254.XX.XX43.XX.XX.XX



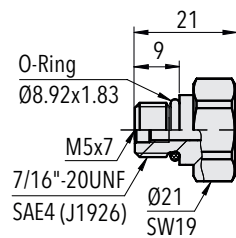
8254.XX.XX24.XX.XX.XX



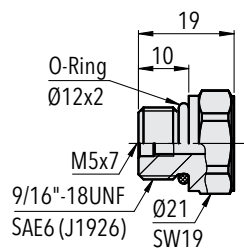
8254.XX.XX44.XX.XX.XX



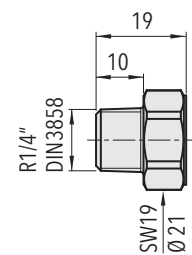
8254.XX.XX18.XX.XX.XX



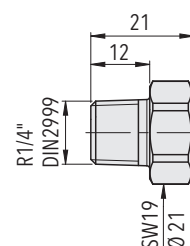
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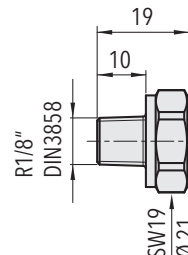
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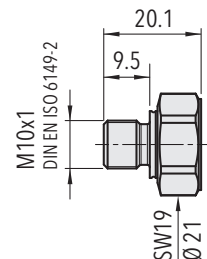
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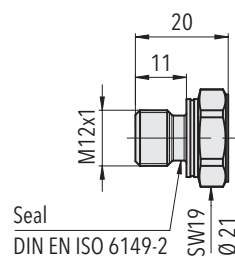
8254.XX.XX20.XX.XX.XX



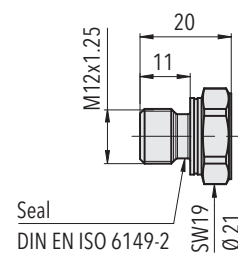
8254.XX.XX16.XX.XX.XX



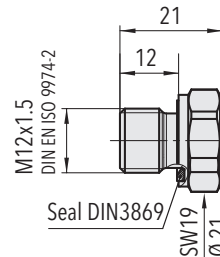
8254.XX.XX32.XX.XX.XX



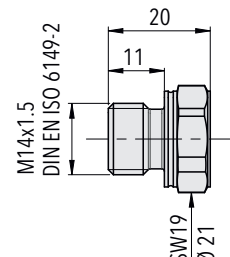
8252.XX.XX64.XX.XX.XX



8252.XX.XX65.XX.XX.XX

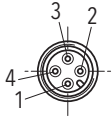
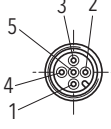
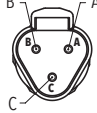
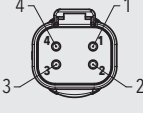
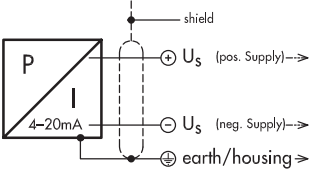
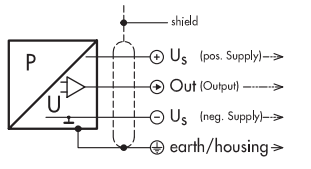
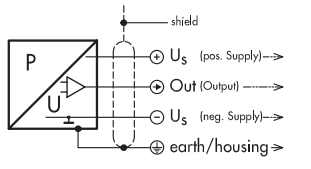
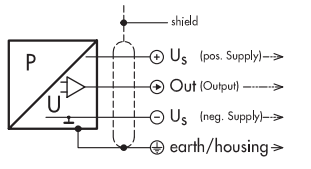
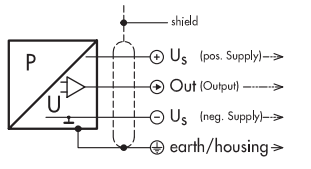


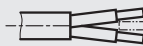
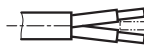
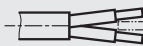
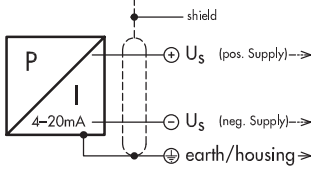
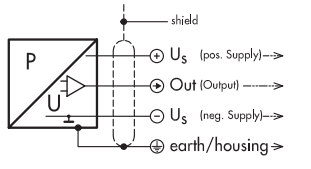
8254.XX.XX49.XX.XX.XX



8254.XX.XX31.XX.XX.XX

Electrical connection

		Protection / electrical connection											
		IP65 ^{1) 2)}			IP67 ^{1) 2)}					IP67 ^{1) 2)}		IP67, IP68 ^{1) 4)}	
		Industrial standard Contact distance 9.4 mm			M12x1					MIL-C 26482		DT04-3P 3-pole	
		01			4-pole 32					5-pole 35		02	
													
													
													
Output signal	 8254.IX.XXXX.IX.19	90	92		E1	E6	F4	F5				F0	
		2	2	1	1	1	1	1	1	4	A	A	A
Output signal	 8254.IX.XXXX.IX.13/14/16/17/20/22/ 23/24/25/26/28/29	91	E3	E9	95	96	E2	F6	F7		F3	F1	
		1	2	3	1	1	1	1	1	2	A	A	2
Output signal	 8254.IX.XXXX.IX.13/14/16/17/20/22/ 23/24/25/26/28/29	91	E3	E9	95	96	E2	F6	F7		F3	F1	
		2	1	1	3	2	3	4	3	2	B	C	4
Output signal	 8254.IX.XXXX.IX.13/14/16/17/20/22/ 23/24/25/26/28/29	91	E3	E9	95	96	E2	F6	F7		F3	F1	
		3	4	2	2	3	4	3	2	4	C/D	B/D	1
Output signal	 8254.IX.XXXX.IX.13/14/16/17/20/22/ 23/24/25/26/28/29	91	E3	E9	95	96	E2	F6	F7		F3	F1	
		4	3	4	4	4	2	2	4	3	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.IX.XXXX.IX.19	white	red	brown
		brown yellow	black green	black yellow / green
Output signal	 8254.IX.XXXX.IX.13/14/16/17/20/22/ 23/24/25/26/28/29	white	red	brown
		green brown yellow	white black green	blue black yellow / green

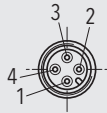
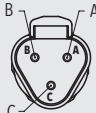
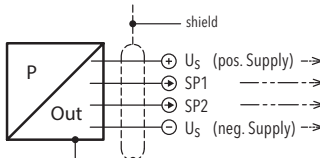
¹⁾ Provided female electrical plug is mounted according to instructions

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	 8254.XX.XXXX.XX.PS/T1	PS	T1	PS	T1	PS	T1	PS	T1	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	

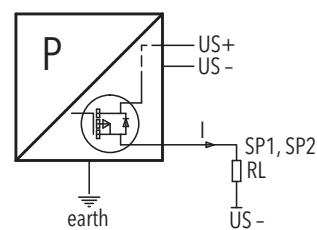
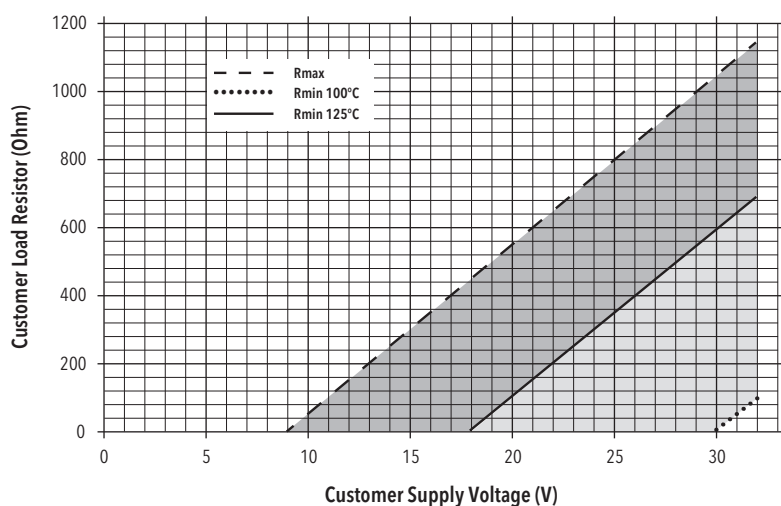
¹⁾ Provided female electrical plug is mounted according to instructions

²⁾ Ventilation via male electric plug/cable end

³⁾ IP68, 20 bar, 30 min.

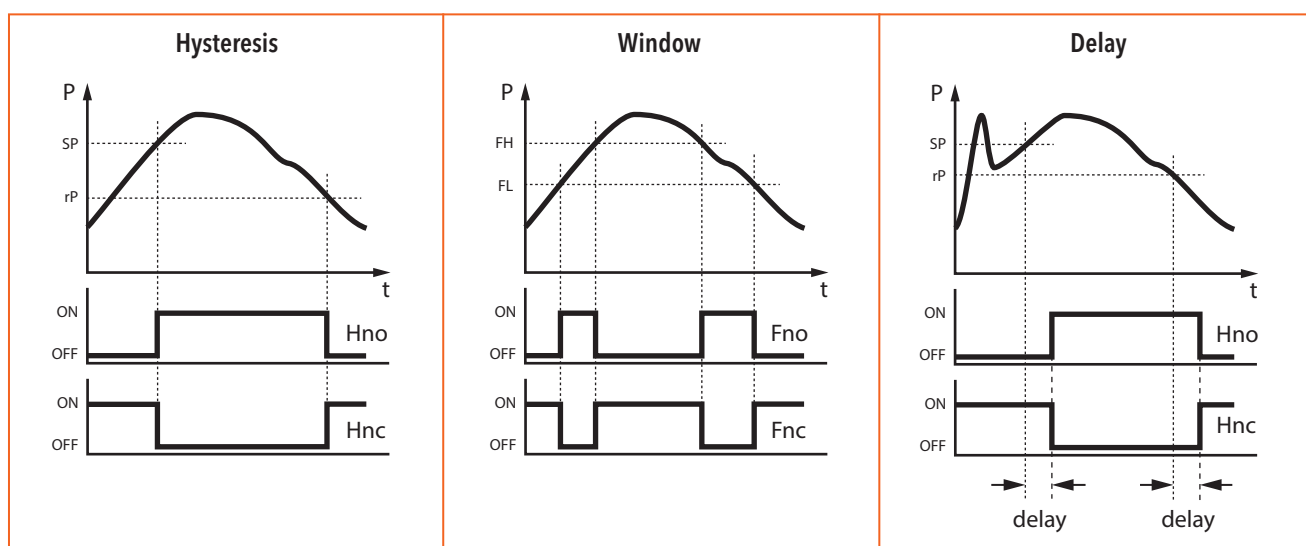
⁴⁾ IP68, 100 mbar, 4h

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