

Pressure transmitter TST-SMC

Measuring range 0 ... 1000 bar
Integrated CANopen interface (CANopen 2.0 A – optional B)



Applications

- General industrial applications
- Automotive engineering
- Hydraulics and pneumatics
- Plant engineering and automation technology
- Environmental and climate technology

Description

- Integrated CANopen interface according to standard 2.0 A (optional B) with data rate up to 1 Mbit / s
- No internal transfer medium ("dry" measuring cell, completely welded)
- Measuring ranges 0 ... 1 bar up to 0 ... 1000 bar
- Media temperature -40 ... +125 °C
- Protection class up to IP67
- Compact and robust stainless steel housing
- High reliability

Standard pressure ranges											
Measuring range	P(bar)	1,0	1,6	2,0	2,5	4,0	6,0	10,0	16	20	25
Overload pressure	P(bar)	6	6	6	6	10	20	20	40	40	100
Bursting Pressure	P(bar)	9	9	9	9	15	30	30	60	60	150
Measuring range	P(bar)	40	60	100	160	200	250	400	600	1000	
Overload pressure	P(bar)	100	200	200	400	400	500	750	840	1200	
Bursting Pressure	P(bar)	150	300	300	600	600	1000	1000	1050	1500	

Technical data	Type: TST-SMC
Electrical parameters	
Output signal*	CAN-interface according to DIN ISO 11898 CAN 2.0 A (optional CAN 2.0 B)
CAN Protocol	CANopen or J1939 according to DIN ISO 11898
Operating voltage U_B	10 ... 32 V DC
current consumption	< 30 mA
Response time* (10 ... 90%)	< 1ms
Electric strength	350 V DC
Accuracy specifications	
BFSL (Best Fit Straight Line)	$\leq \pm 0,15$ % of range
Total error at RT	$\leq \pm 0,50$ % of range– including nonlinearity, hysteresis, zero point and full scale error (according to IEC 61298-2). Optional total error $\leq \pm 0,25$ % of range available
Stability per year	$\leq \pm 0,10$ % of range

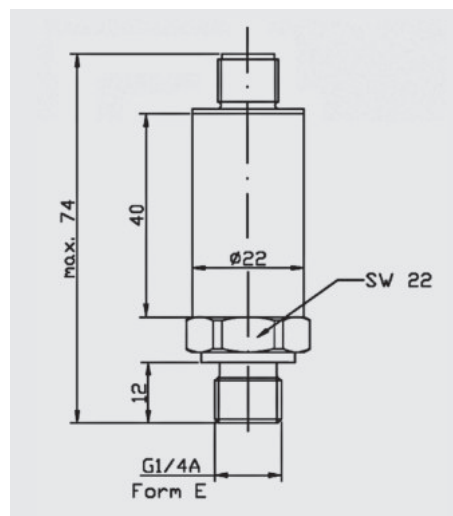
* Other response times on request.

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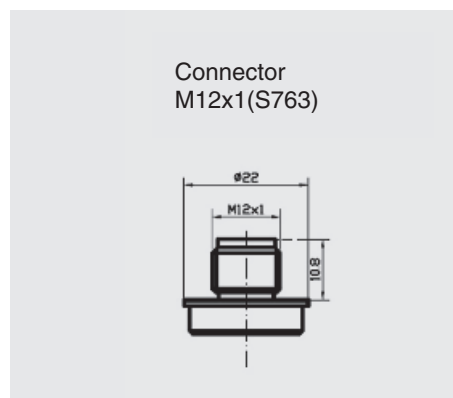
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Technical data	Type: TST-SMC
Temperature ranges	
Media temperature	-40 ... +125 °C
Ambient temperature	-40 ... +105 °C
Storage temperature	-40 ... +105 °C
Compensated temperature range	-20 ... +85 °C
Temperature coefficient zero point	$\leq \pm 0,15 / 10K$ % of range
Temperature coefficient range	$\leq \pm 0,15 / 10K$ % of range
Total Error	At -40 °C - 2,00 % of range At +105 °C - 2,00 % of range
Mechanical parameters	
Sensor element	Stainless steel on media side
Material of parts with contact to measuring medium	CrNiCuNb 17-4 PH / 1.4542
Housing	Stainless steel
Process connection	G 1/4" E, G 1/4" B, G 1/2" B, 1/4" NPT, others upon request
Electrical connection	Connector M12x1, others upon request
Weight	80-120 g according to layout
Shock resistance	1000 g according to IEC 68-2-32
Vibration resistance	30 g according to IEC 68-2-6 and IEC 68-2-36
CE conformity	EMC Directive 2004/108/EC
IP protection class	Corresponding to the used and connected mating connector
Optional	With throttle

Dimensional drawing



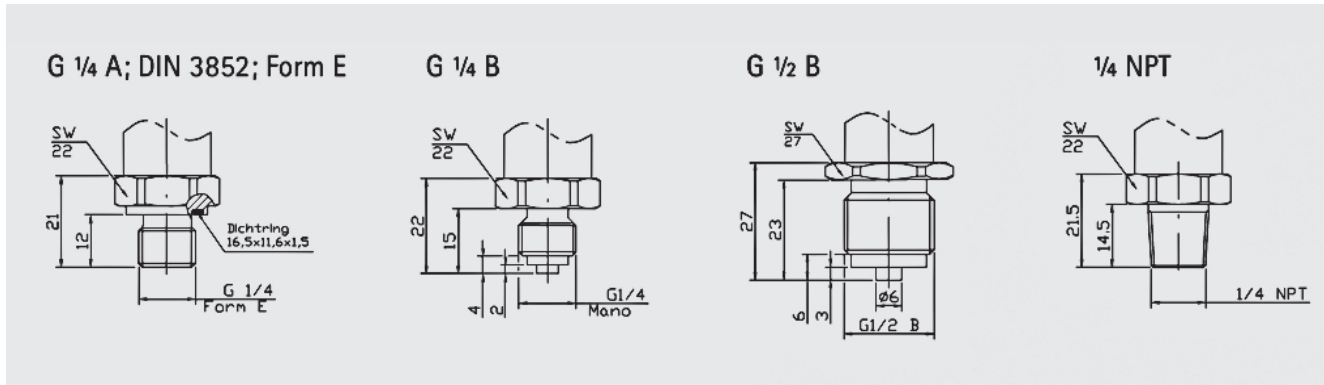
Connector



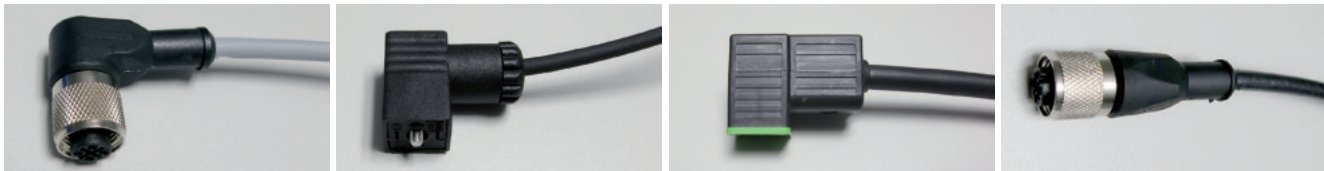
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Process connectors



Assembled cable and connection accessories



Type	Length	Specification	Part No.:	straight	angled
M12x1 (S763) 4- pin	-	connector M12x1 for self-connection		1070039	1070038
	-	connector M12x1 self-connection, shielded		1070030	1070031
	2 m	cable: PUR		1070044	-
	5 m	cable: PUR, halogen-free		1070023	1070025
	5 m	cable: PUR, shielded, halogen-free		1070032	1070033
MVS / C, 3-pin +PE	3 m	cable: PUR, connector MVS / C		-	1070021

Special types upon request.