



Pressure Transducer 26.60



- Ceramic sensor
- Economical execution
- Accuracy 0.5% FSO
- Up to 400 bar

D-EN-26-60_20200122



Pressure Transducer 26.60

Input																
Nominal pressure rel.	[bar]	-1...0 	1	1,6	2,5	4	6	10	16	25	40	60	100	160	250	400
Nominal pressure abs.	[bar]	-	-	1,6	2,5	4	6	10	16	25	40	60	100	160	250	400
permissible overpressure	[bar]	3	3	7	7	12	12	25	50	50	120	120	250	500	500	600

Output signal / auxiliary energy	
Standard	2-wire: 4 ... 20 mA/ $U_B = 12 \dots 36 V_{DC}$
Options	3-wire: 0 ... 10 V/ $U_B = 14 \dots 36 V_{DC}$

Signal behavior	
Accuracy	$\leq \pm 0,5 \% \text{ FSO}$
Perm. resistance	electricity 2-wire: $R_{\max} = [(U_B - U_{B \min}) / 0,02] \Omega$ voltage 3-wire: $R_{\min} = 10 \text{ k}\Omega$
Influencing effects	Auxiliary energy: 0,05 % FSO / 10 V resistance: 0,05 % FSO / $\text{k}\Omega$

Temperature error (Zero point and span)	
Temperature error	$\leq \pm 0,3 \% \text{ FSO} / 10 \text{ K}$
in the compensated area	-25 ... 85 °C

Electrical protection measures	
Short-circuit strength	permanent
Reverse polarity protection	no damage if connections are reversed, but also no function
Electromagnetic compatibility	interference emission and immunity to interference according to EN 61326

Mechanic solidity	
Vibration 10 g RMS (20 ... 2000 Hz)	Shock 100 g / 11 ms

Temperature ranges		
Medium -25 ... 125 °C	Electronics / ambient -25 ... 85 °C	Storage -40 ... 100 °C

Important instructions!

Technical changes and errors reserved.

Pictures can be similar.

The operating instructions belonging to this device must be observed! Download at

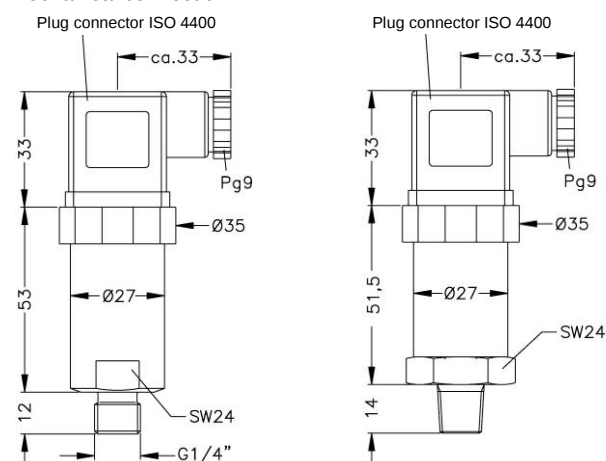
www.schmidt-messtechnik.com



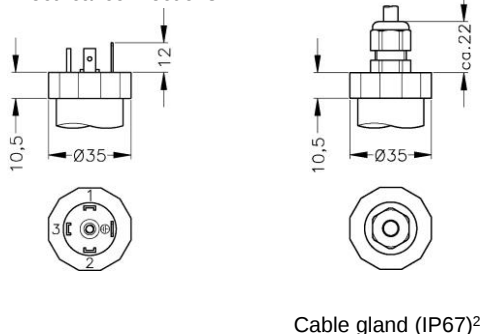
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Dimensions (in mm)

Mechanical connection



Electrical connections



⇒ At pressure ranges PN < 25 bar, the overall length is reduced by 5 mm.

Material

Pressure connection / Housing	Stainless steel 1.4305
Seals (wetted parts)	$P_N < 100$ bar: FKMP $P_N \geq 100$ bar: NBR others on request
Separating membrane	ceramic Al_2O_3 96 %
Wetted parts	Pressure connection, seals, separating membrane

Option

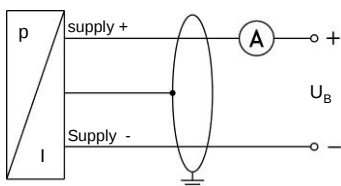
Oxygen version	for $P_N \leq 50$ bar: O-rings made of V747-75 (with BAM approval); permissible maximum values 40 bar/130° C and 50 bar/100° C for $P_N > 50$ bar: O-rings made of FKM 90 (with approval of the scientific coal research institute Ostrava- CZ) up to 215 bar/95
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Pin configuration

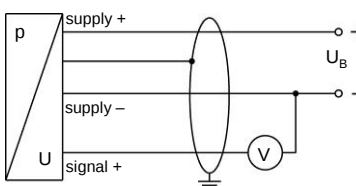
Electrical connections		ISO 4400	Cable colors (DIN 47100)
2-wire-system	supply +	1	white
	supply -	2	brown
	mass	Mass contact	yellow / green (electric screen)
3-wire-system	supply +	1	white
	supply -	2	brown
	signal +	3	green
	mass	Mass contact	yellow / green (electric screen)

Connection circuit diagram

2-wire-system (current)



3-wire-system (voltage)



The information in this data sheet contains the specification of the products, not the assurance of properties. Technical changes reserved.