

Pressure sensors with internal diaphragm for the measurement of very low pressure

Accuracy 0,5 % according to IEC 61298-2

Standard output 4...20 mA; 2-wire system
or 0...20 mA; 3-wire system
or 0...5 VDC; 3-wire system
or 0...10 VDC; 3-wire system

Special features

excellent linearity
short response time
for dynamic and static measurements

Applications

For non-aggressive gases,
dry, clean air and low pressures.

Areas of use

Clean room and medical technology
Filter monitoring
Heating-ventilation-air conditioning



Model	SD-70	SD-71
Accuracy	0,5 % of full scale value	
Connection thread	G 1/2 B	G 1/4 B
Ranges in mbar	0...10, 16, 25, 40, 60	
Overload limit	up to 25 mbar up to 200 mbar	from 40 mbar up to 500 mbar
Sensor element	piezoresistive sensor made of silicon	
Repeatability	< 0,05 % full scale value	
Stability per year	< 0,2 % full scale value in rated conditions	
Case	CrNi steel	
Wetted parts	CrNi steel, silicon, epoxy or RTV, mineral glass with O-ring Viton (FKM)	
Pressure connection	Hexagon 27 mm, CrNi steel	
Electrical connection	Plug according to EN 175301-803 (DIN 43 650) / ISO 4401 with junction box	
Power supply	10...36 VDC (12...36 VDC for output 0...10 V)	
Power consumption	Output 4...20 mA: signal currency, with voltage bei Spannungsausgang 8 mA	
Permissible load	Current 2-wire: $R_{max} = ((U_B - U_{B_{min}}) / 0,02) \text{ Ohm}$, voltage: $R_{min} = 10 \text{ K Ohm}$	
Short-circuit protection	S + to U -	
Reverse polarity protect	U + to U -	
CE-Konformität	Pressure Equipment Directive - 97/23/EG EMC-Directive to EN 61 326	
Operational life	> 50 million pressure cycles	
Temp.comp.range	< 60 mbar - 0...50 °C, < 400 mbar - 0...70 °C, ab 400 mbar 0...85 °C	
Temp. influence	0,5 % / 10 K, zero point and span	
Response time	< 5 ms (within 10% to 90% of F. S.)	
Protection type	IP 65 to EN 60529 /IEC 529	
Temperatures	Medium: -20 °C up to 100 °C, Ambient: -25 °C up to 80 °C	
Weight	0,2 kg	

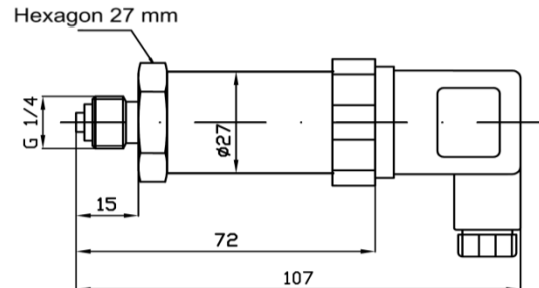
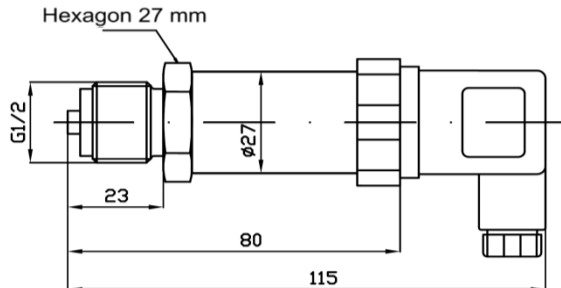
Dimensions and Design

Model SD-70

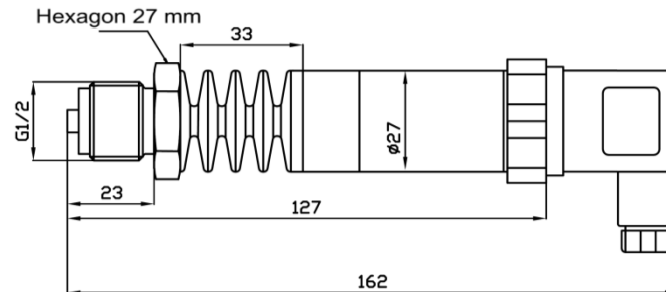
Model SD-71

Standard version, IP 65

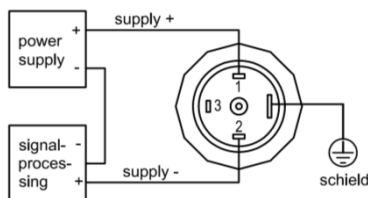
Plug according to EN 175301-803 (DIN 43 650) / ISO 4401 with junction box



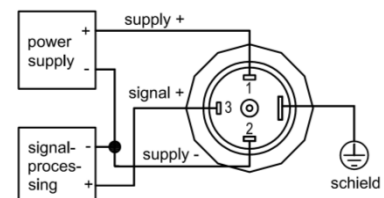
option, cooling element up to 200 °C



Two-wire system
4...20 mA

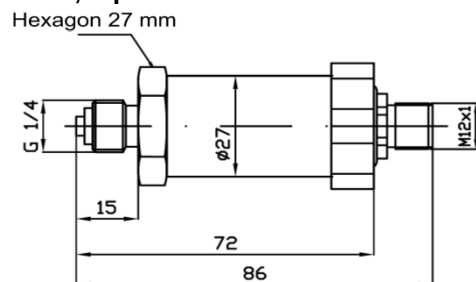
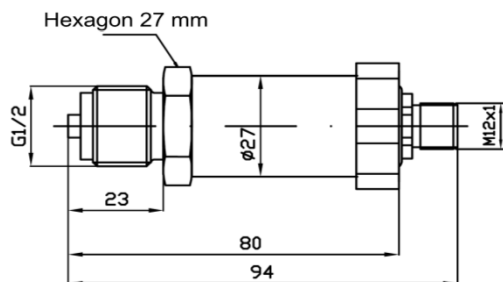


Three - wire system
0...20 mA and 0...5/10 V

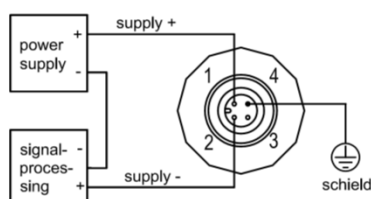


option, IP 67

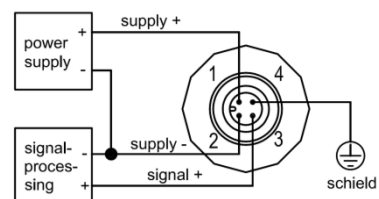
Circular connector M 12 x 1, 4-pin



Two-wire system
4...20 mA



Three - wire system
0...20 mA and 0...5/10 V

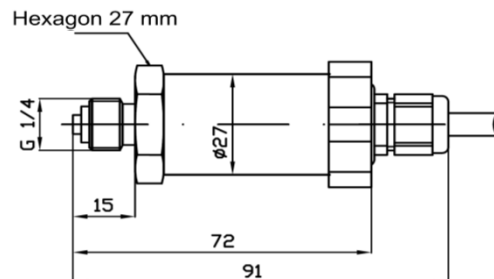
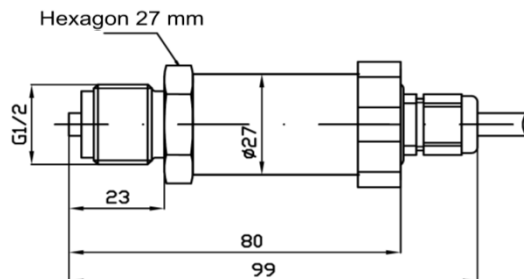


Dimensions and Design

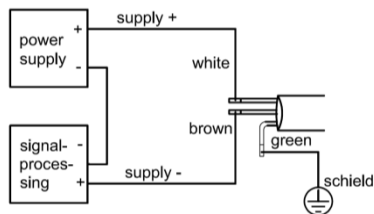
Model SD-70

Model SD-71

option, IP 67 oder IP 68
cable outlet with 2 meters securely connected PVC-cable,

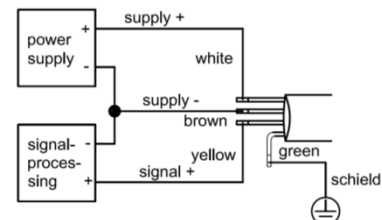


Two-wire system 4...20 mA



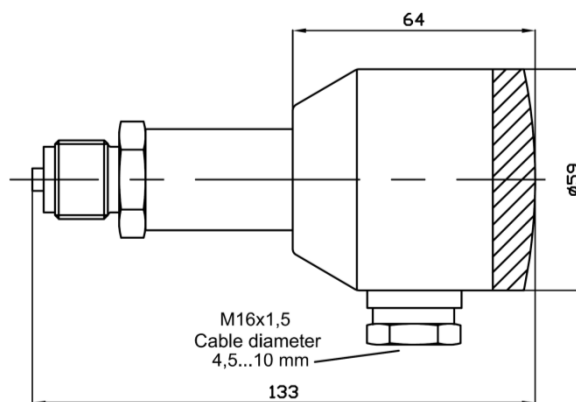
cable colours to DIN 47 100

Three - wire system 0...20 mA and 0...5/10 V

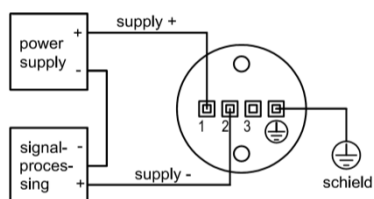


cable colours to DIN 47 100

option, IP 67
compact field housing



Two-wire system 4...20 mA



Three - wire system 0...20 mA and 0...5/10 V

