

Pressure sensors with internal diaphragm and stainless steel measuring cell

Accuracy 0,25 % and 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

High overload protection
Highly resistant to shock and vibration
Good reproducibility



Applications

For all gaseous and liquid pressure media, which do not attack the measuring system and do not crystallize or react viscous.

Areas of use

Machinery and plant engineering
Hydraulic systems
Environmental technology

Model	SD-30	SD-31	SD-32	SD-33
Accuracy	0,5 % of full scale value		0,25 % of full scale value	
Connection thread	G 1/2 B	G 1/4 B	G 1/2 B	G 1/4 B
Ranges in bar	0...0,1, ...0,16, ...0,25, ...0,4, ...0,6, 1, 1,6, 2,5, 4, 6, 10, 16, 25, 40, 60, 100, 160, 0...250, 400, 600, 1.000 -0,6 / 0, -1 / 0, -1 / +0,6, -1 / +1,5, -1 / +3, -1 / +5, -1 / +9, -1 / +15, -1 / +24			
Overload limit	up to 600 bar - 2x, 1.000 bar - 1,5x			
Sensor element	stainless steel measuring cell, to 40 bar piezoresistiv, from 60 bar thin film technology welded			
Repeatability	< 0,03 % full scale value			
Stability per year	< 0,2 % full scale value in rated conditions			
Case	CrNi steel			
Wetted parts	CrNi steel 316L, to 40 bar with O-ring Viton (FKM)			
Pressure connection	Hexagon 27 mm, CrNi steel 316L			
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 output 8 mA			
Permissible load	Current 2-wire: $R_{max} = ((UB-UB_{min}) / 0,02) \text{ Ohm}$, voltage: $R_{min} = 10 \text{ K Ohm}$			
Short-circuit protection	S + to U -			
Reverse polarity protect	U + to U -			
CE-conformity	Pressure Equipment Directive - 97/23/EG EMC-Directive to EN 61 326			
Operational life	> 50 million pressure cycles			
Temp.comp.range	0...85 °C			
Temp. influence	0,2 % / 10 K, zero point and span			
Response time	< 1 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			

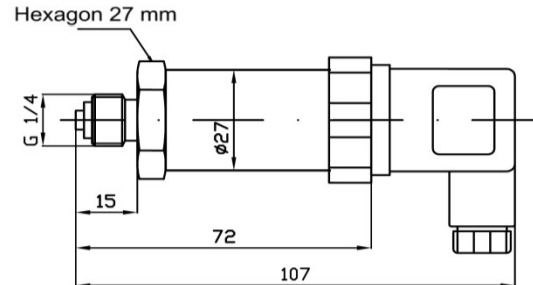
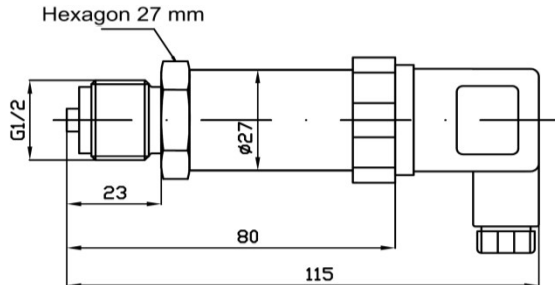
Dimensions and Design

Model SD-30 und SD-32

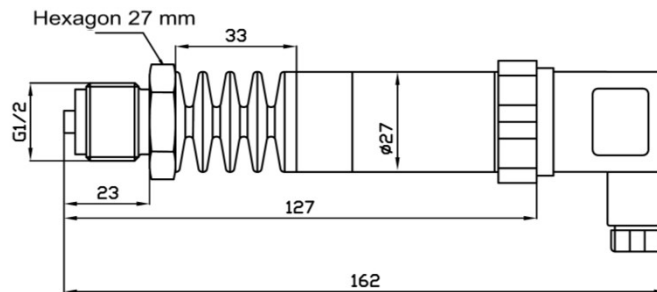
Model SD-31 und SD-33

Standard version, IP 65

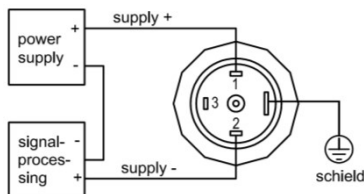
Plug according for EN 175301-803 (DIN 43 650) / ISO 4401 with junction box



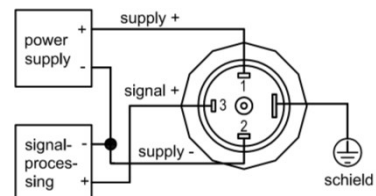
option, cooling element up to 300 °C



Two-wire system
4...20 mA

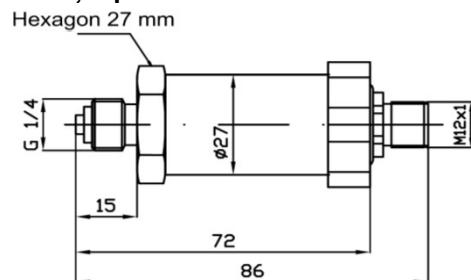
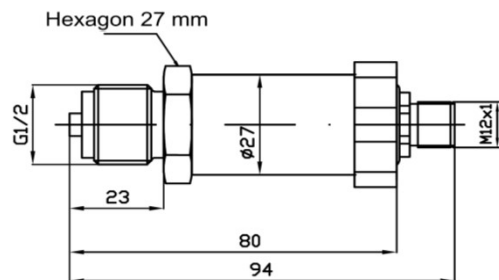


Three - wire system
0...20 mA and 0...5/10 V

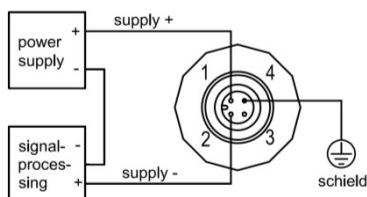


option, IP 67

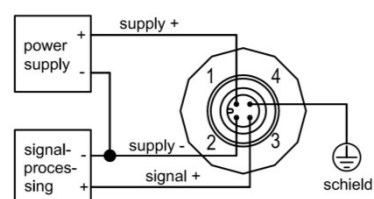
Circular connector M 12 x 1, 4-pin



Two-wire system
4...20 mA



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

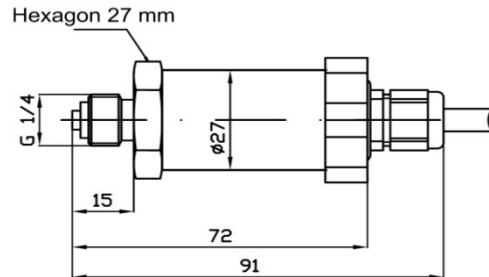
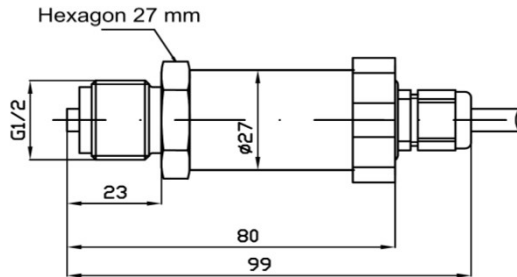


Dimensions and Design

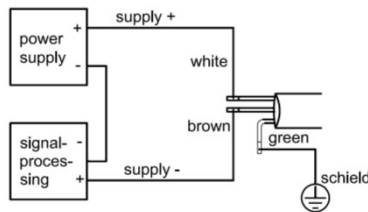
Model SD-30 und SD-32

Model SD-31 und SD-33

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

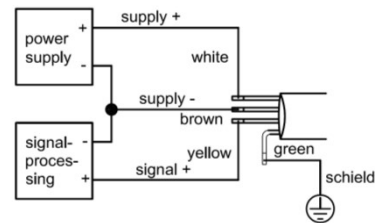


Two-wire system 4...20 mA



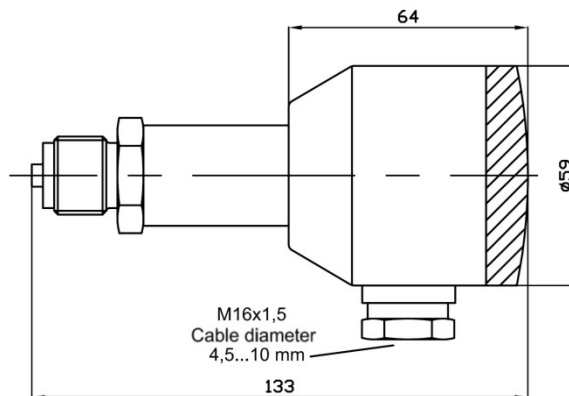
cable colours to DIN 47 100

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

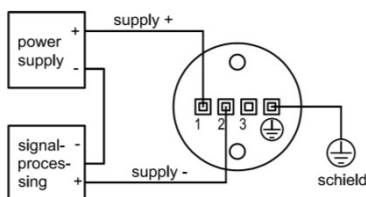


cable colours to DIN 47 100

option, IP 67
compact field housing



Two-wire system 4...20 mA



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

