

# Pressure sensor with front flush diaphragm piezoresistive or thin film

Accuracy 0,25 % and 0,5 %

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

## Features

High overload protection  
For pasty or crystallizing media  
For dynamic or static measurements  
Good repeatability

## Applications

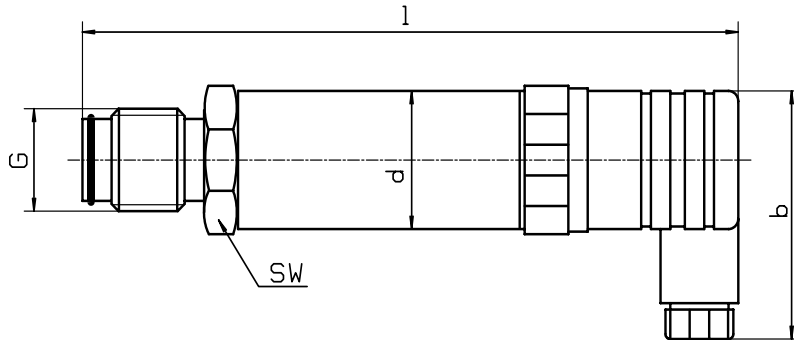
Development and laboratory applications  
Process engineering  
Plant and apparatus design



Model	SD-40	SD-42
Accuracy	0,5 % full scale value	0,25 % full scale value
Ranges in bar	0...0,1, ...0,25, ...0,4, ...0,6, 1, 1,6, 2,5, 4, 6, 10, 16, 25, 40, 60, 100, 160, 250, 400, 0...600 -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 16 bar - 3,5 x from 25 up to 600 bar - 2,0 x	
Sensor element	from 0,1 to 16 bar piezoresistive, over 25 bar in Thin film	
Repeability	< 0,05 % full scale value	
Stability per year	< 0,2 % full scale value in rated conditions	
Case	CrNi steel	
Wetted parts	CrNi steel	
Pressur connection	SW 27, CrNi steel	
Connection thread	100 mbar G 1 1/2", from 250 mbar G 1", from 400 mbar G 3/4", from 2,5 bar G 1/2"	
Electrical connection	plug according to DIN 43650 with junction box	
Power supply	10...30 VDC (14...30 VDC for output 0...10 V)	
Power consumption	Output 4...20 mA: signal currency	voltage output 8 mA
Temp.comp.range	0...80 °C	
Temp. influence	0,2 % / 10 K, zero point and measuring element	
Response time	(within 10% to 90% of full scale value)	
Protection type	IP 65 to EN 60529 / IEC 529	
Temperatures	Medium: -30°C up to 100°C, Ambient: -20°C up to 80°C	
Weight	0,2 kg	

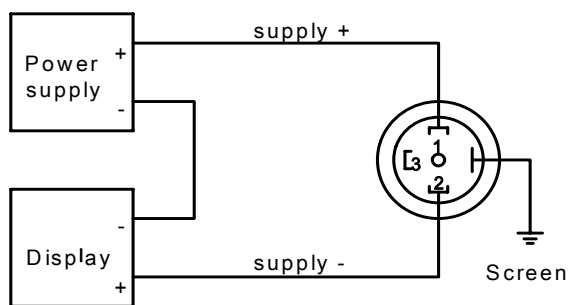
## Dimensions and Design

with front flush diaphragm

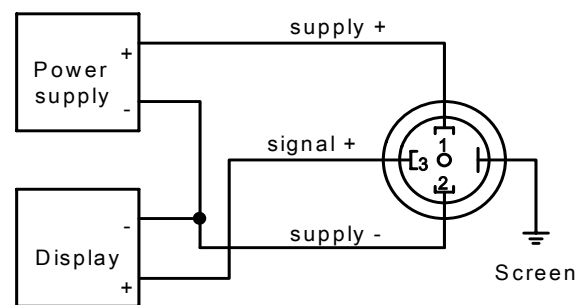


## Electrical connection

### Two-wire system



### Three - wire system



Dimensions in mm						
Model	b		d	l	SW	G
SD-40	48		27	130,5	27	100 mbar G 1 1/2"
						from 250 mbar G 1"
SD-42	48		27	130,5	27	from 400 mbar G 3/4"
						from 2,5 bar G 1/2"