



**Data Sheet**  
**SD-50 Series**  
**Pressure Sensors**

*Distributed by*



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## Pressure sensor with quasi - flush diaphragm Capacitive Ceramic Sensor

**Accuracy:**  $\pm 0.25\%$  and  $\pm 0.35\%$

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

### Features

High long -therm stability  
Ceramic sensor resistant against mechanical contact  
Long operating life  
Quasi-flush diaphragm  
Small thermal effect  
Rugged and reliable ,even for usage under rough conditions ( shock, vibration )



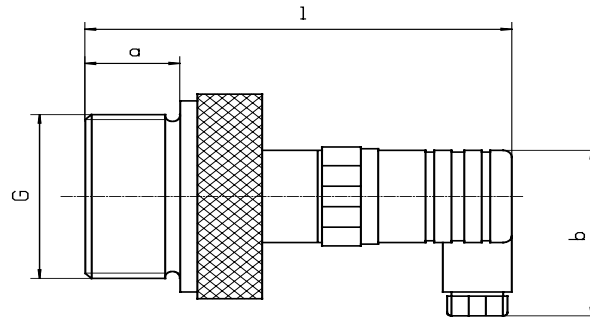
### Applications

Continous fluid level measurement  
Chemical industry  
Medical industry

Typ	SD-50	SD-52
<b>Accuracy</b>	$\pm 0.35\%$ of full scale value	$\pm 0.25\%$ of full scale value
<b>Ranges (psi)</b>	0 to 1.0, 1.5, 2.5, 3.5, 5, 10, 15, 25, 35, 50, 100, 150, 200	
<b>Overload limit</b>	up to 3.5 psi: 29 psi from 5 to 10 psi: 58 psi from 15 to 25 psi: 100 psi 35 psi: 215 psi from 50 to 100 psi: 360 psi from 150 to 200 psi: 580 psi	
<b>Sensor element</b>	Capacitive Ceramic Sensor	
<b>Case</b>	CrNi steel	
<b>Wetted parts</b>	CrNi steel ceramic $Al_2O_3$	O-ring viton (FKM)
<b>Pressure connection</b>	SW 27, CrNi steel	
<b>Connection thread</b>	$\frac{1}{2}$ in NPT or G $\frac{1}{2}$ B	
<b>Electrical connection</b>	plug according to DIN 43650 with junction box	
<b>Power supply</b>	12...36 VDC	
<b>Power consumption</b>	output 4..20 mA < 30 mA	voltage output < 15 mA
<b>Temp. compsn. range</b>	-4 to 176°F (-20 to 80°C)	
<b>Temp. Infuence</b>	< $\pm 1.5\%$ zero point and measuring element null point and span	
<b>Protection type</b>	IP 65 to EN 60529 / IEC 529	
<b>Temperatures</b>	Medium: -13 to +257°F (-25 to 185°C), Ambient: -13 to 176°F (-25 to 85°C)	
<b>Weight</b>	1.0 lb	

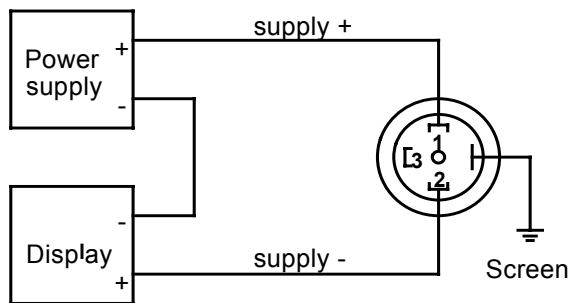
## Dimensions and Design

with quasi front flush diaphragm

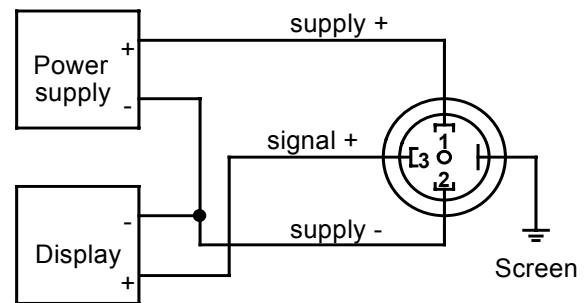


## Electrical connection

### Two-wire system



### Three-wire system



Dimensions in mm						
Model	a	b		l		G
SD-50	22	48		102		G1 1/2 "
SD-52	22	48		102		G1 1/2 "