

pressure-sensor type DS02



description:

High quality pressure sensor with internal ceramic membrane in a compact design. High vibration resistance, peak pressure resistance and long-term stability. As 2-wire (4-20mA) and 3-wire (0-10) available.

product features:

- suitable for liquid and gaseous media. unsuitable for crystalline and viscous media
- suitable for mechanical engineering, hydraulics and pneumatics
- For dynamic and static measurements

connection:

G 1/2" B, G 1/4" B

temperature:

-20°C up to +100°C depending on design

pressure:

0 – 400,0 bar relative – depending on design

design:

body material:

seals:

sensor element:

pressure connection:

wetted parts:

electrical connection:

power supply:

power consumption:

permissible load:

accuracy:

stability per year:

repeatability:

overload limit:

short circuit rating:

polarity protection:

CE-conformity:

process pressure range:

lifetime:

protection:

adjustment time:

pressure-sensor with internal ceramic membrane

Cr-Ni-steel

FKM (O-ring Viton)

ceramic in monolithically construction

CrNi steel, SW27

CrNi steel, ceramic Al₂O₃

plug according to DIN 43650 with junction box

10–36V (12-36 VDC for output 0-10V)

output 4-20mA: signal current voltage output 8mA

current 2-wire: $R_{max} = ((U_B - U_{Bmin}) / 0,02)$ ohm, voltage: $R_{min} = 10K$ ohm

0,5% from full scale value

≤ 0,2% full scale value in rated conditions

< 0,05 % full scale value

2 x

S+ against U-

U+ against U-

Pressure Equipment Directive – 97/23/EG & EN 61 326

EMC Directive regarding emission and immunity

0 – 400 bar relative, for absolute and vacuum pressure on request

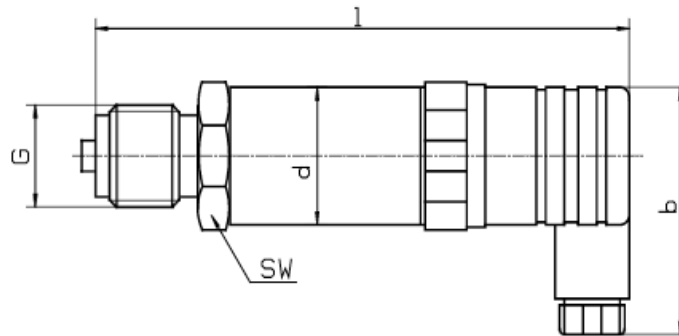
> 50 million duty cycles

IP 65 to EN 60529 / IEC 529

< 1ms (within 10% to 90% of the end value)

temp. comp. range: 0 up to 70°C
temp. influence: 0,2% / 10 K, zero point and measuring element
temperature: media: -20°C up to +100°C
 ambient: -25°C up to +80°C
weight: 0,2 kg

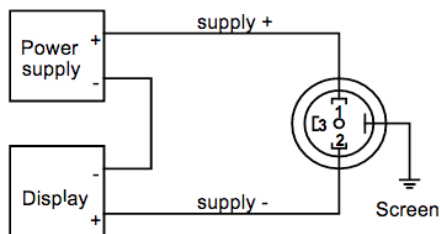
dimensions:



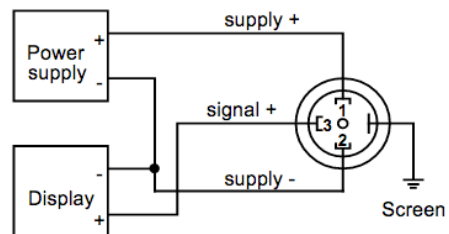
Dimensions in mm					
Model	b	d	l	SW	G
DS02	48	27	115	27	G 1/2B
DS02	48	27	108	27	G 1/4B

power connection:

Two - wire system



Three - wire system



article number:

type	range of pressure	seal	electrical output	connection
DS02	04 - 0 - 1,6 bar	0 - FKM	0 - 2-wire (4-20mA)	01 - G 1/4" B 03 - G 1/2" B
	05 - 0 - 2,5 bar		1 - 3-wire (0-10V)	
	06 - 0 - 4 bar			
	07 - 0 - 6 bar			
	08 - 0 - 10 bar			
	09 - 0 - 16 bar			
	10 - 0 - 25 bar			
	11 - 0 - 40 bar			
	12 - 0 - 60 bar			
	13 - 0 - 100 bar			
	14 - 0 - 160 bar			
	15 - 0 - 250 bar			
	17 - 0 - 400 bar			

example:

DS02060101

pressure sensor with internal ceramic membrane

range of pressure: 0 – 4 bar

seal: FKM

output: 0 – 10 V

connection: G 1/4" B

Image similar, subject change without notice.