

Analogue pressure sensors
for Allfluid/hydraulic applications
Pressure ranges 0 ... 800 bar (relative pressure)

- Robust sensor for hydraulic applications
- Small, space saving construction
- Robust stainless steel housing
- High overpressure
- Temperature compencoting
- 3-wire technology (0 ... 10 V)
2-wire technology (4 ... 20 mA)
- Excellent long-term stability
- Stainless steel measuring element-not oil-filled

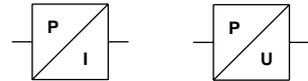
Definition

Electronic pressure switches are devices which are normally positioned next to the point of measurement. The fluidic signal is converted into a proportional standard output signal of 4 ... 20 mA or 0 ... 10 V.

The pressure is measured by a strain gauge and an electronic circuit then amplifies, linearises and temperature compensates the signal.



Symbols



Technical Data

Fluid:

For neutral and aggressive gases or fluids

Fluid connection: G 1/4 female with nipple manometer connection

Mounting position: Optional

Weight: 0,070 kg

Fluid temperature: -20 °C ... +85 °C / -40 °C ... +120 °C *

Ambient temperature:

-20 °C ... +85 °C / -40 °C ... +120 °C *

Interference emission: EN 50081-1

Interference immunity: EN 50082-2

Degree of protection (acc. to DIN 40050)
IP 65 (with mounted plug)

Shock protection:

30g, xyz, to DIN EN 60068-2-27

Vibration protection:

3g, 5 ... 500 Hz, xyz, DIN EN 60068-2-6

Supply voltage:

12 ... 30 VDC (current output)

15 ... 30 VDC (voltage output)

Residual ripple (max.):

10% (within supply voltage) at 50 Hz

Output signal:

4 ... 20 mA (Two-wire technology)

0 ... 10 Volt (Three-wire technology)

Frequency output*

Load resistance:

See diagram

Electrical connection:

M 12 x 1 / cable*

Polarity:

Short-circuit proof

Measuring range: See table overleaf

Linearity:

± 0.5% (final value)

Hysteresys:

< ± 0.1%

Temperature sensitivity:

Zero point < ± 0.4% FS / 10K

Range < ± 0.2% FS / 10K

Materials:

Housing Stainless steel 1.4571 / 1.4542

Sensor Stainless steel membrane 1.4542

* On request



Standard versions (electrical connection M 12 x 1¹⁾)

Type	Measuring range (bar) ²⁾ (Relative pressure)	Value max. (bar) (Over pressure)	Fluid connection	Output signal
0862170	0 ... 10	40	G 1/4	4 ... 20 mA
0862180	0 ... 10	40	G 1/4	0 ... 10 Volt
0862370	0 ... 25	50	G 1/4	4 ... 20 mA
0862380	0 ... 25	50	G 1/4	0 ... 10 Volt
0862470	0 ... 100	200	G 1/4	4 ... 20 mA
0862480	0 ... 100	200	G 1/4	0 ... 10 Volt
0862670	0 ... 250	500	G 1/4	4 ... 20 mA
0862680	0 ... 250	500	G 1/4	0 ... 10 Volt
0862770	0 ... 400	750	G 1/4	4 ... 20 mA
0862780	0 ... 400	750	G 1/4	0 ... 10 Volt
0862970	0 ... 800	1000	G 1/4	4 ... 20 mA
0862980	0 ... 800	1000	G 1/4	0 ... 10 Volt

¹⁾ Plug not included. Please see below.

²⁾ In between measurement ranges on request.

Plugs for electrical connection M 12 x 1

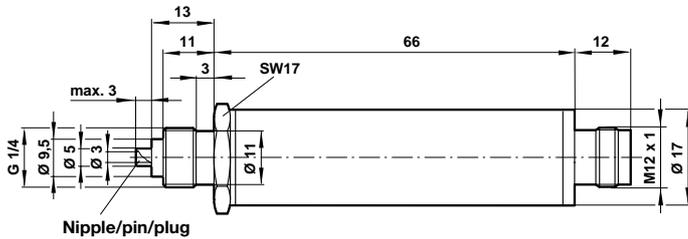
Type	Version
0523055	straight, without cable
0523057	straight, 2 m cable, 4-core
0523052	straight, 5 m cable, 4-core
0523056	90° without cable
0523058	90° 2 m cable, 4-core
0523053	90° 5 m cable, 4-core

Electrical connection 18S Allfluid

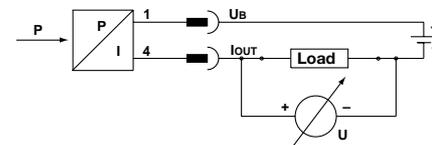
	Plug M 12 x 1	
	4 ... 20 mA	0 ... 10 Volt Frequency *
+ U _B	1	1
GND	-	3
Signal	4	4

* Frequency output available on request.

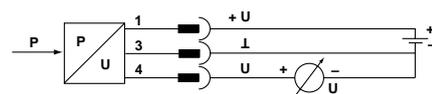
Dimensional drawing



Electrical diagram for 2-wire versions 4 ... 20 mA

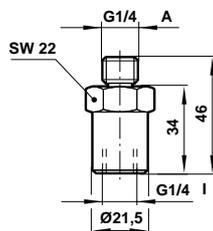


Electrical diagram for 3-wire versions 0 ... 10 V



Accessories

Surge damper
Type 0574773
(Brass/steel)



Characteristic load curve

