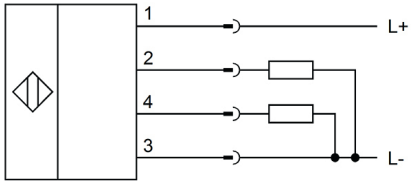Pressure sensors are suitable for measuring different media with high accuracy. They are available with switching output and/or analog output. Using PC software, the measured values can be recorded depending on the device type. These sensors can be used in all areas of e.g. pneumatic and hydraulic applications.

TECHNICAL DATA

Ambient temperature (min/max)	-20 °C / 80 °C
CIP compatible	NO
Degree of protection (IP)	IP65
For gaseous media	YES
For liquid media	YES
For pasty media	NO
Front-flush membrane	NO
Housing design	Cylinder plain
Housing material	PA 6.6 (synthetic)
Max. operating overpressure	600 bar
Max. operating pressure	400 bar
Max. operating pressure	400000 hPa
Nominal pressure	400 bar
Pressure transmitter	NO
Sensing element material	Stainless steel 1.4435
Sensor diameter	38 mm
Sensor length	122 mm
Thread length	14 mm
Thread pitch	1.337 mm
Type of pressure connection	G1/4 inch A
Adjustable hysteresis	YES
Adjustable unit	NO
Damping (analog output) MAX	20 s
Damping (analog output) MIN	0 s
Damping (displayed value) MAX	20 s
Damping (displayed value) MIN	0 s
Decay time	5 ms
Electronic version	YES
End value measuring range, pressure	400 bar
End value measuring range, pressure	40000000 Pa
Initial value of measuring range, pressure	0 bar

DW353116

pressure sensors

TECHNICAL DATA

Initial value of measuring range, pressure	0 Pa
Max. output current	1000 mA
Measurement method	Absolute
No-load current	60 mA
Number of pins	4
Number of switching outputs	2
Operating voltage (min/max)	12 V / 32 V
Peak value memory	YES
Programmable via software	YES
Readiness delay	2000 ms
Relative linearity deviation	0.25 %
Relative repeat accuracy	0.1 %
Response time	5 ms
Reverse polarity protection	YES
Setting procedure	Parameterization
Short-circuit-proof	YES
Suitable as 2-point control	YES
Suitable as limiter	YES
Suitable as monitor	YES
Switching frequency	125 Hz
Switching output with window function	YES
Temperature drift	0.2 %
Turn-off delay	20 s
Turn-on delay	20 s
Type of alarm output	PNP
Type of analog output	0 V ... 10 V / 4 mA ... 20 mA
Type of electrical connection	Plug-in connection M12
Type of switching function	Normally closed contact/normally open contact
Type of switching output	PNP
Voltage drop	2 V
Voltage type	DC
With LED display	YES
With display	YES
Compatible with foodstuff	NO
For hydraulic applications	YES
For pneumatic applications	YES

CONNECTION

Colors: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)
Functions: 1 = L+, 2 = pnp no/nc, alarm, analog, 3 = L-, 4 = pnp no/nc

DIMENSIONAL DRAWING