

## DW36311H

### PRESSURE SENSORS • CONNECTION G1/8" INNER THREAD

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.



#### MECHANICAL DATA

Ambient temperature	-20 °C ... 80 °C
Degree of protection (IP)	IP65
Explosion-proof	No
For gaseous media	Yes
For liquid media	Yes
Housing design	Cylinder plain
Housing material	PA 6.6 (synthetic)
Max. operating pressure	750 hPa
Medium temperature	-20 °C ... 80 °C
Nominal pressure	0.5 bar
Sensing element material	Ceramics
Sensor diameter	38 mm
Sensor length	108 mm
Thread length	12 mm
Thread pitch	0.91 mm
Type of pressure connection	G1/8 inch
With hand operation	No

#### ELECTRICAL DATA

Adjustable hysteresis	Yes
Damping (analog output) MAX	20 s
Damping (displayed value) MAX	20 s
Decay time	5 ms
Electronic version	Yes
End setting	0 hPa ... 500 hPa
End value measuring range, pressure	50000 Pa
Hysteresis	1 %
Initial setting	-500 hPa ... 0 hPa
Initial value of measuring range, pressure	-50000 Pa
IO-Link compatible	No
Max. output current	1000 mA

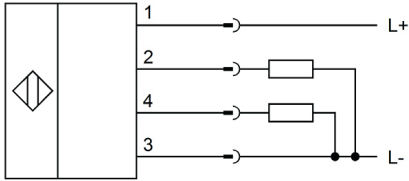
**ELECTRICAL DATA**

Measurement method	Relative
Measuring range pressure	-0.5 bar ... 0.5 bar
No-load current	60 mA
Number of pins	4
Number of switching outputs	2
Operating voltage	12 V ... 32 V
Peak value memory	Yes
Programmable via software	Yes
Rated operating voltage U <sub>e</sub> at DC	12 V ... 32 V
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 / 0 ... 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 display	Yes
With LED display	Yes
With manual on/off switch	No

**OTHER DATA**

For hydraulic applications	Yes
For pneumatic applications	Yes
Measuring display	Relative

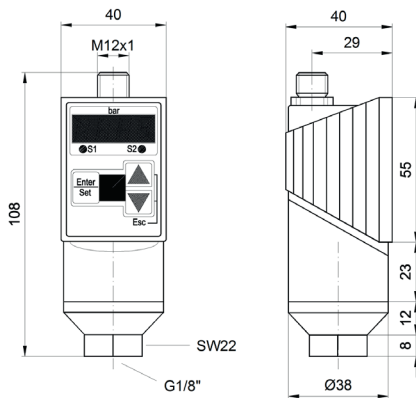
## CONNECTION



**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



## INSTALLATION



Mounting / Installation may only be carried out by a qualified electrician!

## DISPOSAL



## SAFETY WARNINGS

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information!