

## DW16460J

### 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	-10 °C ... 60 °C
Degree of protection (IP)	IP65
Explosion-proof	No
For gaseous media	Yes
Housing design	Cylinder plain
Housing material	Plastic ABS
Max. operating pressure	5000 hPa
Max. operating pressure	5 bar
Nominal pressure	1 bar
Sensing element material	Nickel-plated brass
Sensor diameter	16 mm
Sensor length	79 mm
Thread length	7 mm
Thread pitch	0.91 mm
Type of pressure connection	G1/8 inch A / M5 inside
With hand operation	No

#### ELECTRICAL DATA

Adjustable hysteresis	Yes
Adjustable unit	Yes
Electronic version	Yes
End setting (MAX)	1000 hPa
End value measuring range, pressure	100000 Pa
Initial setting (MIN)	-1000 hPa
Initial value of measuring range, pressure	-100000 Pa
IO-Link compatible	Yes
Max. output current	250 mA
Measurement method	Relative
Measuring range pressure	-1 bar ... 1 bar
No-load current	15 mA
Number of pins	4

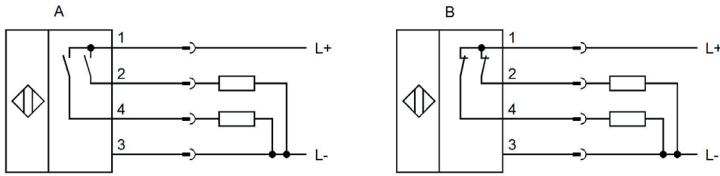
**ELECTRICAL DATA**

Number of switching outputs	2
Operating voltage	10 V ... 30 V
Rated operating voltage U <sub>e</sub> at DC	10 V ... 30 V
Readiness delay	5000 ms
Relative linearity deviation	0.5 %
Relative repeat accuracy	0.2 %
Residual ripple	10 %
Response time	2.5 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	200 Hz
Switching output with window function	Yes
Temperature drift	3 %
Turn-off delay	99.9 s
Turn-on delay	99.9 s
Type of electrical connection	Plug-in connection M8
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 pneumatic applications	Yes
Measuring display	Relative

## CONNECTION

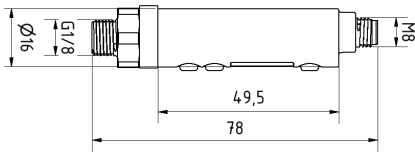


**Colors:** A: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

B: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)  
**Functions:** A: 1 = L+, 2 = PNP NO, 3 = L-, 4 = PNP NO

B: 1 = L+, 2 = PNP NC, 3 = L-, 4 = PNP 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!