

**DW164600**

**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 (MAX)	60 °C
Ambient temperature (MIN)	-10 °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)	0 hPa
End value measuring range, pressure	0 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 (MIN)	-1 bar
No-load current	15 mA

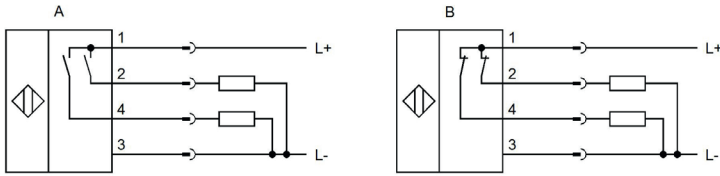
**ELECTRICAL DATA**

Number of pins	4
Number of switching outputs	2
Operating voltage (MAX)	30 V
Operating voltage (MIN)	10 V
Rated operating voltage U <sub>e</sub> at DC (MAX)	30 V
Rated operating voltage U <sub>e</sub> at DC (MIN)	10 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

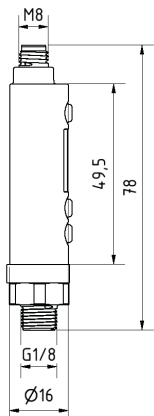


**Colors:** A: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

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!

Never use these devices in applications where the safety of a person depends on their functionality.