

**DW16460K****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     | 16000 hPa               |
| Max. operating pressure     | 16 bar                  |
| Nominal pressure            | 10 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)                          | 10000 hPa  |
| End value measuring range, pressure        | 1000000 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 (MAX)             | 10 bar     |
| Measuring range pressure (MIN)             | -1 bar     |

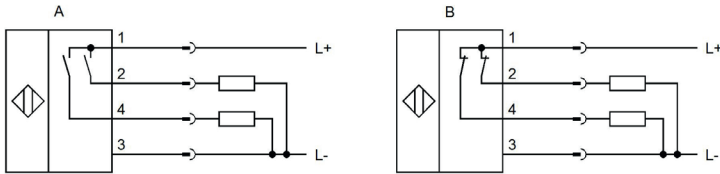
**ELECTRICAL DATA**

|                                                    |                                               |
|----------------------------------------------------|-----------------------------------------------|
| No-load current                                    | 15 mA                                         |
| Number of pins                                     | 4                                             |
| Number of switching outputs                        | 2                                             |
| Operating voltage (MAX)                            | 30 V                                          |
| Operating voltage (MIN)                            | 10 V                                          |
| Peak value memory                                  | Yes                                           |
| 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

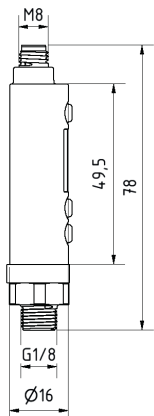


**Colors:** A: 1 = BN (brown), 2 = WH (white), 3 = BU (blue), 4 = BK (black)

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.