

# DW46310L

## Pressure sensors • Differential pressure sensors

Pressure sensor, 0-1.6bar, 10-30V DC, G1/8", 4-20mA, M12 plug connector 4-pin

including Plug-in coupling for 6 mm hose



The article "DW46310L" is a differential pressure sensor that belongs to the subgroup of differential pressure sensors. This type of sensor enables the mechanical integration of two systems, with one serving as a reference point and the other providing the measurement result. Differential pressure sensors such as the DW46310L belong to the upper group of pressure sensors, which couple two systems via a diaphragm and convert the pressure difference into an electrical signal. The DW46310L sensor is connected via a G1/8 inch process connection and scales the pressure range from 0 to 1.6 bar to a current output of 4 - 20 mA.

### Electrical features

|                               |                          |
|-------------------------------|--------------------------|
| Type of analog output         | 4 - 20mA                 |
| Type of electrical connection | Connector M12            |
| Short-circuit protection      | No                       |
| Measuring range pressure      | 0 - 1,6 bar              |
| Measurement method            | Difference               |
| Number of pins                | 4                        |
| Reverse polarity protection   | No                       |
| Operating voltage (DC)        | 10 - 30 V                |
| Suitable as monitor           | Yes                      |
| ardSOCA_ElektrischerAnschluss | M12 4-pin plug connector |
| ardSOCA_Betriebsspannung      | 10-30VDC                 |

### Mechanical features

|                            |             |
|----------------------------|-------------|
| Type of process connection | Hose OD 6mm |
| Bursting pressure          | 60 bar      |
| For liquid media           | No          |
| Max. operating pressure    | 10 bar      |
| Ambient temperature        | -20 - 80 °C |

### Other features

|                               |                       |
|-------------------------------|-----------------------|
| Relative measurement accuracy | 2 %                   |
| ardTE00_Anwendungen           | Pneumatik-Anwendungen |

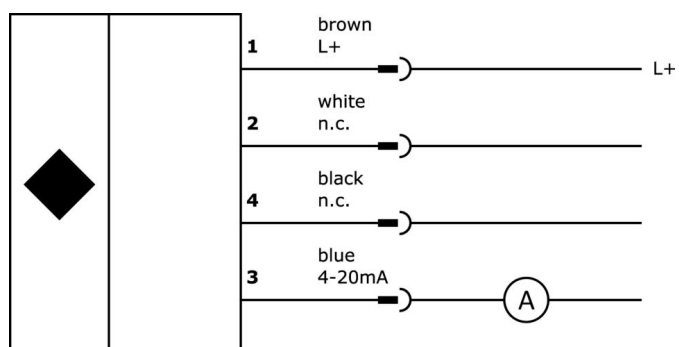
### Classification

|        |                          |
|--------|--------------------------|
| ETIM 8 | EC000243 Pressure switch |
|--------|--------------------------|

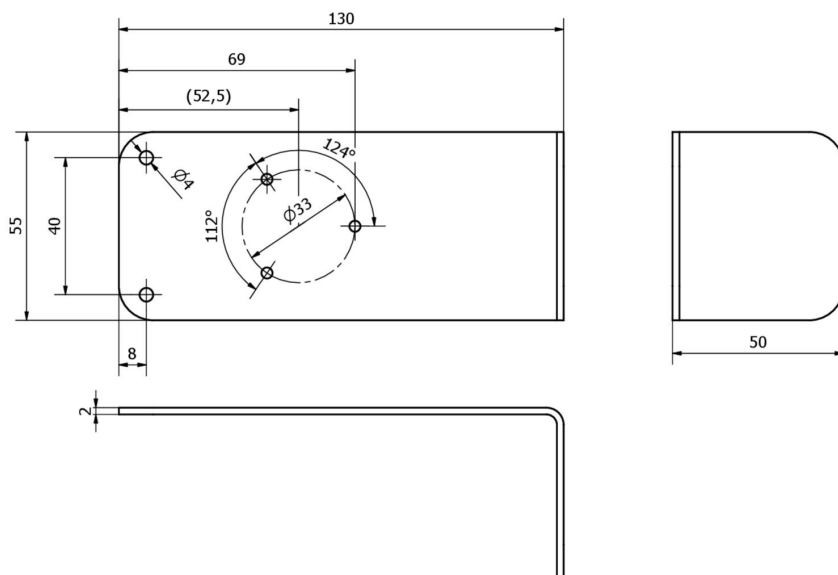
## More

|                       |                                            |
|-----------------------|--------------------------------------------|
| IPF Product Group     | 725 compressed air and leakage measurement |
| packaging dimensions  | 250 x 150 x 85 mm                          |
| gross weight          |                                            |
| Customs tariff number | 90262020                                   |
| WEEE number           | 40951076                                   |
| Reach-compliant       | Yes                                        |
| RoHS-compliant        | Yes                                        |

## Connection



## Dimensional drawing



## Extract accessories program

### VK205321



Connection cable, 2m, M12  
Female (socket) 4pin Angular, Free  
conductor end, 4x0.34mm<sup>2</sup>, PUR  
(Polyurethane), Ø5.5mm, 250V, -  
25-90°C, IP67, Shielded, Suitable  
for trailing chain and torsion  
resistant, Oil and cooling  
lubricants, Welding area, Silicon...

### VK205325



Connection cable, 2m, M12  
Female (socket) 4pin Straight, Free  
conductor end, 4x0.34mm<sup>2</sup>, PUR  
(Polyurethane), Ø5.5mm, 250V, -  
25-90°C, IP67, Shielded, Suitable  
for trailing chain and torsion  
resistant, Oil and cooling  
lubricants, Welding area, Silico...

### VK200021



Connection cable, 2m, M12  
Female (socket) 3pin Angular, Free  
conductor end, 3x0.34mm<sup>2</sup>, PUR  
(Polyurethane), Ø4.3mm, 250V, -  
30-90°C, IP67, Suitable for trailing  
chain and torsion resistant, Oil and  
cooling lubricants, Welding area,  
Silicone-free

### VK200025



Connection cable, 2m, M12  
Female (socket) 3pin Straight, Free  
conductor end, 3x0.34mm<sup>2</sup>, PUR  
(Polyurethane), Ø4.3mm, 250V, -  
30-90°C, IP67, Suitable for trailing  
chain and torsion resistant, Oil and  
cooling lubricants, Welding area,  
Silicone-free

You can find further accessories on our homepage



### Installation

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



### Disposal

WEEE number according to § 6 para. 3  
ElektroG: 40951076

## 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.