
Ex-DNM10

# Ex-DCM / Ex-DNM

**II 2G Ex d e IIC T6 Gb**

**II 1/2D Ex ta/tb IIIC T80 ºC Da/Db**

This universal pressure switch can be used in general mechanical engineering and the printing machine industry, as well as in pneumatics and hydraulics.

**SIL 2 according IEC 61508-2**

## Technical data

**Pressure connection**
External thread G 1/2 (pressure gauge connection) according to DIN 16 288 and internal thread G 1/4 according to ISO 228 Part 1.

**Switching device**
Robust housing (700) made of seawater resistant die cast aluminium GD Al Si 12.

**Protection class**
IP 65, in vertical position.

**Pressure sensor materials**

| | |
|---|---|
| Ex-DNM | Metal bellows: 1.4571<br>Sensor housing: 1.4104 |
| Ex-DCM4016/<br>Ex-DCM4025 | Diaphragm: Perbunan<br>Sensor housing: 1.4301 |

**Mounting position**
Vertically upright.

**Ambient temp. at switching device**
–20…+60 °C

**Max. medium temperature**
The maximum medium temperature at the pressure sensor must not exceed the permitted ambient temperature at the switching device. Higher medium temperatures are possible provided the above limit values for the switching device are ensured by suitable measures (e.g. siphon).

**Mounting**
Directly on the pressure line (pressure gauge connection) or on a flat surface with two 4 mm Ø screws.

**Switching pressure**
Adjustable from outside with screw driver.

**Contact arrangement**
Single pole change over switch.

| Switching capacity | 250 VAC (ohm) | 250 VAC (ind) | 250 VDC (ohm) | 24 VDC (ohm) |
|---|---|---|---|---|
| Ex-d | 3 A | 2 A | 0.1 A | 3 A |

## Product Summary

| Type | Setting range | Switching differential (mean values) | Max. permissible pressure | Materials in contact with medium | Dimensioned drawing |
|---|---|---|---|---|---|
| **Switching differential not adjustable** | | | | | **page 21 + 22** |
| **Ex-DCM4016** | 1…16 mbar | 2 mbar | 1 bar | Perbunan | 4 + 11 |
| **Ex-DCM4025** | 4…25 mbar | 2 mbar | 1 bar | + 1.4301 | 4 + 11 |

For other Ex-devices, see type series VCM, DNS, DDCM, DWR, DGM.

| Type | Setting range | Switching differential (mean values) | Max. permissible pressure | Dimensioned drawing |
|---|---|---|---|---|
| **Ex-DNM10** | 1…10 bar | 0.3 bar | 25 bar | 4 + 17 |
| **Ex-DNM63** | 16…63 bar | 1.0 bar | 130 bar | 4 + 16 |

## Calibration

The **Ex-DCM/Ex-DNM** series is calibrated for falling pressure. This means that the adjustable switching pressure on the scale corresponds to the switching point at falling pressure. The reset point is higher by the amount of the switching differential. (See also page 23, 1. Calibration at lower switching point).