DDM
sensor solutions

Brake pressure sensor

PV-15B Series

Minimised

High Speed
Analogue Output

Wide Temperature Range

DDM
sensor solutions

Description

Whether vehicles with combustion engine, hybrid drive or electric drive, every vehicle must be braked reliably and safely. In addition to electric recuperation, this is done via a hydraulic system with brake discs or brake drums. In order to measure this brake pressure as close as possible to the caliper brake under all adverse conditions, DDM has developed the PV-15B brake pressure sensor. The PV-15B is small and lightweight, as well as vibration and temperature resistant, so it can perform these tasks reliably and steadily. The burst pressure of this pressure sensor is over 400bar, so the brake line remains pressure-resistant under any load.

Pressure Ranges (FRO):
0 to 200 bar rel. (others on request)

Overpressure
300 bar

Burst pressure
400 bar

Output Signal (3-wire)
0.5 to 4.5 V

Load Impedance
> 5 kOhm

Measurement Performance
Total Error Band within Operating Temperature Range (includes non-linearity, hysteresis, repeatability, zero and span settings, thermal shift on zero and span)
≤ 1 % FRO

Stability
≤ 0.2 % FRO per year (typically)

Response Time
< 0.5 ms

Operating Temperature Range
–40 °C to +150 °C

Process Media Temperature
up to +150 °C

Supply Voltage (VS)
8 to 32 VDC

Current Consumption
≤ 5 mA

Material of Wetted Parts
1.4404 and 1.4435

Electrical Connection
High temperature shielded cable

Pressure Connection
M10×1 with 90° cone

Protection Rate
IP67

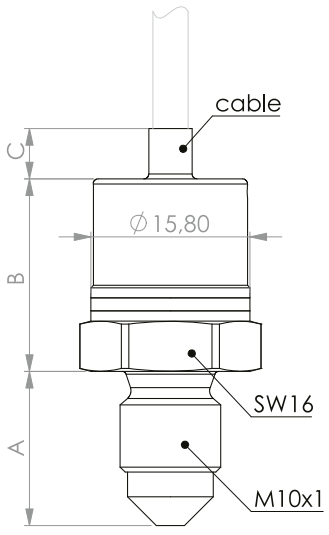
Weight
30 g, app.

EMV
12 V/m 80 MHz–2 GHz
to DIN EN 61326 (A)

Vibration
DIN EN 60068-2-64 Grade 1

Dimensions (ca. mm)

A	B	C
15,3	19,1	6,2



Electrical Connections

Output	Function	Cable
Volts	+ V_S	red
	+ Output	yellow
	– V_S	blue

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