

## Pressure transducers DMU 02

Part no. 32816

Pressure transducers DMU 02 Industrial version



### benefits

- extremely resistant to shock, pulsation and vibration
- high overload safety
- best dynamic pressure resistance at high load changes
- wetted area without seals due to welding
- no transmission liquid

### Application

For electronic pressure measurement in industrial applications, e.g. hydraulic, pneumatic, gas industry, refrigeration, automation, medical, as well as general mechanical and plant engineering applications.

### Description

Pressure transducers convert physical pressure into an electrical signal proportional to the pressure. DMU 02 is equipped with a piezo-resistive polysilicon thin-film measuring cell.

### Technical Specifications

#### Measuring accuracy

Deviation from the characteristic curve according to IEC 60770 – limit point calibration (non-linearity, hysteresis, repeatability)  
 $< \pm 0.5 \% \text{ FSO}$

#### Measuring range

0/40 bar

#### Overpressure safety

$\leq 250 \text{ bar}$   
 at least 2 x FS

#### Burst pressure

$\leq 250 \text{ bar}$   
 at least 3 x FS

#### Operating temperature range

Medium:  $-40/+125 \text{ }^\circ\text{C}$   
 Ambient:  $-40/+105 \text{ }^\circ\text{C}$   
 Storage:  $-40/+125 \text{ }^\circ\text{C}$

#### Temperature error band

$\leq \pm 0.15 \% \text{ FSO}/10 \text{ K}$  In compensated range  $-25/+85 \text{ }^\circ\text{C}$

#### dynamic characteristics

Response time:  $< 1 \text{ ms}$

#### Process connection

G $\frac{1}{2}$ B EN 837-1/7.3

**material**

Housing: Stainless steel 304

pressure connection: Stainless steel 304

electr. measuring cell: Stainless steel 630/304

**Supply voltage**

DC 10 – 32 V

**Output signal**

2-wire, 4–20 mA

**Load**

$R_{\max} = [(UB - UB_{\min})/0.02 \text{ A}] \Omega$

**Current input**

< 25 mA

**Options**

- other connection threads
- fixed cable connection
- other connectors
- other output signals
- cleaned for oxygen

**electrical protection**

short circuit proof and protected against reverse polarity

**Electrical connection**

Connector and junction box as per ISO 4400 (DIN 43650-A)

**Degree of protection**

IP 65 (EN 60529)

**CE conformity**

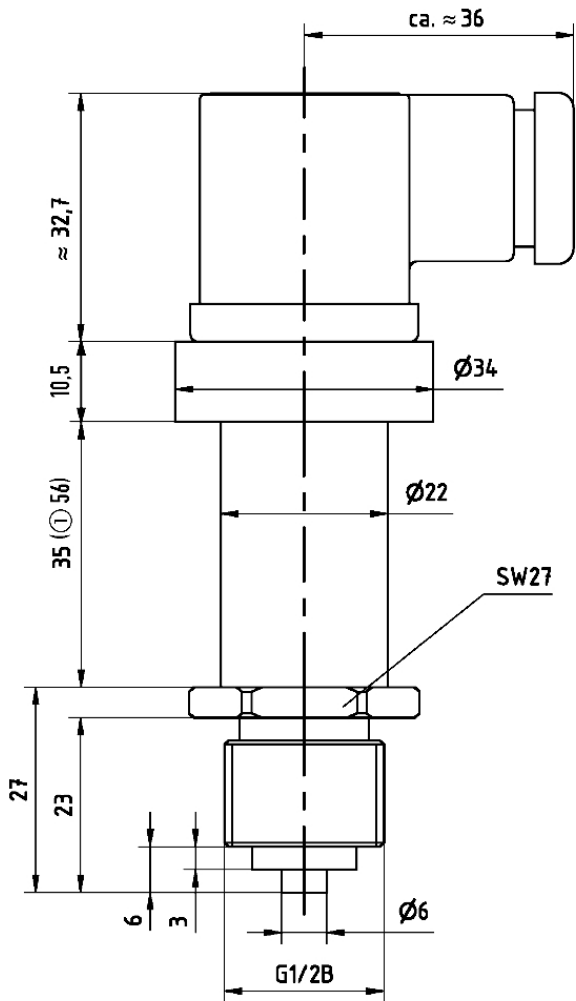
EMC Directive 2014/30/EU

RoHS Directive 2011/65/EU

Pressure Equipment Directive 2014/68/EU

**Technical Drawings**

**DMU 02 - connector ISO 4400 (DIN 43650-A)**



**Dimensions (mm)**  
Ex version

**Versions**

Range	Measuring range	Type	Version	Part no.
	0/40 bar	DMU 02	●	32816

- in-stock items
- Non-stock items