Cavity Pressure Sensor IDS-C-B2

2.5 mm | 5 pC/bar

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Description

Precision crystal elements, tailored material selection and minimal tolerances in production make the cavity pressure sensors high-precision instruments that deliver a reliable, undistorted pressure signal. Its well-proven design guarantees highest durability and consistent performance over its entire lifetime. In combination with the single wire cable and the mounting aids, the sensor can easily be installed and integrated into injection molding systems.
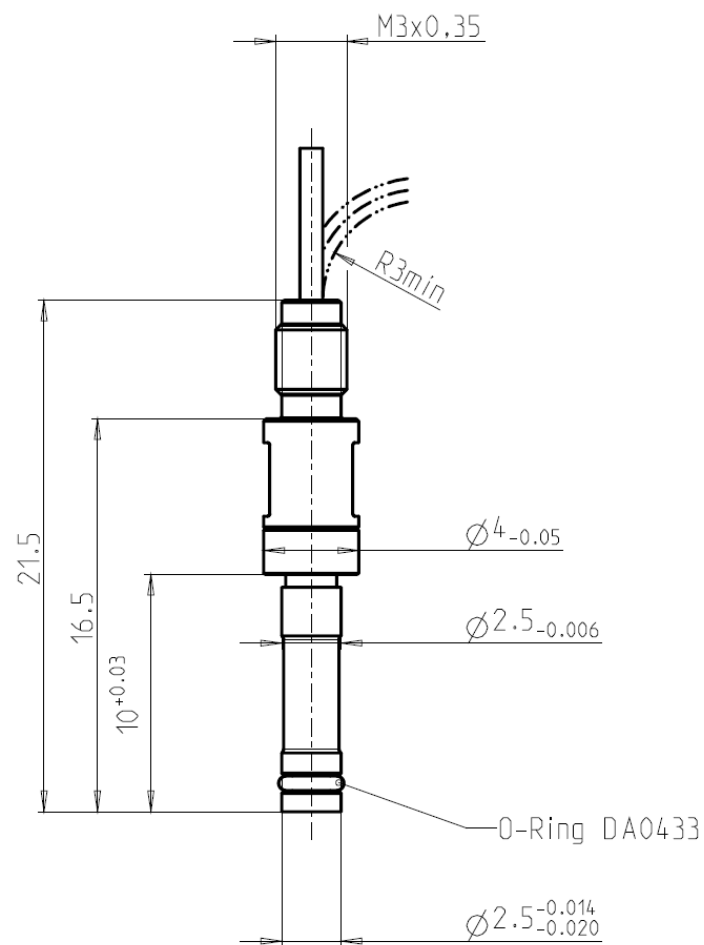
Key Features

- Measures Pressure Profiles in Injection Molding Systems
- Pressure Range up to 2000 bar
- Suitable for High Temperatures up to 450°C
- Compact and Robust Design
- Single Wire Cable
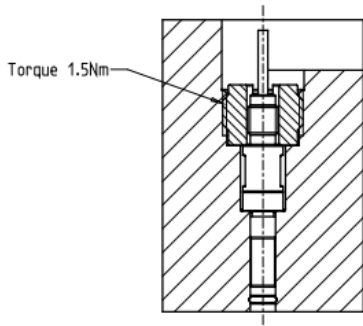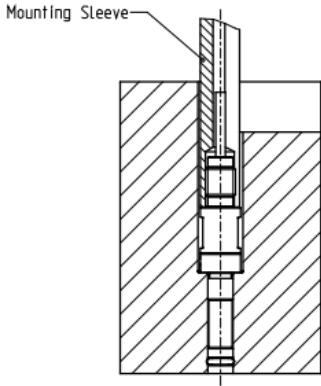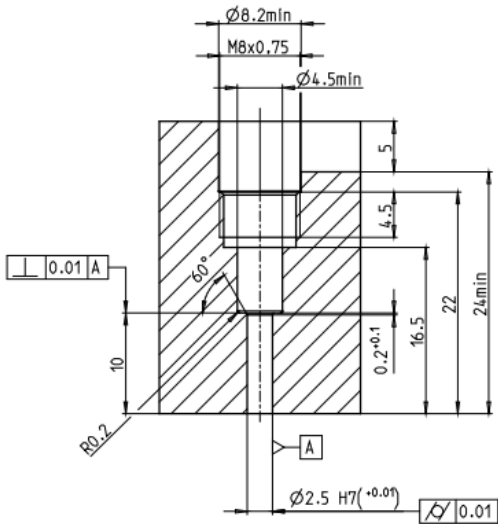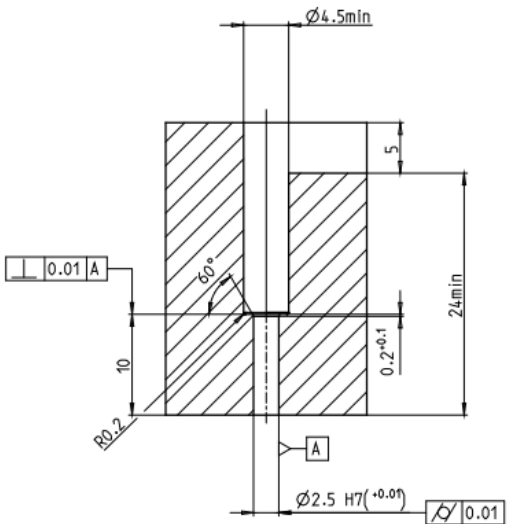- Installation Directly into Mold Cavity for Unmatched Precision

Technical Data

Sensor Type	Direct
Tip Diameter	2.5 mm
Operating Principle	Piezoelectric, Charge Output
Sensing Element	Quartz
Dynamic Measuring Range	0 … 2000 bar
Overload Pressure	2500 bar
Sensitivity (nominal)	5 pC/bar ± 2 %
Linearity	≤ ± 1 % FSO
Temperature Mold	200 °C
Temperature Melt (front of sensor)	450 °C
Internal Isolation Resistance	> 10^{13} Ohm (25 °C)
Natural Frequency	80 kHz
Interfaces	
Connector type	M4x0.35

Sensor Dimensions

M3x0,35

R3min

21.5

16.5

10 +0.03

$\emptyset 4_{-0.05}$

$\emptyset 2.5_{-0.006}$

O-Ring DA0433

$\emptyset 2.5^{-0.014}_{-0.020}$

Mount Dimensions

• Mounting Nut	• Mounting Sleeve
• Borehole Dimensions – Mounting Nut	• Borehole Dimensions – Mounting Sleeve

All Dimensions are in mm

Cable

- Single Wire Cable
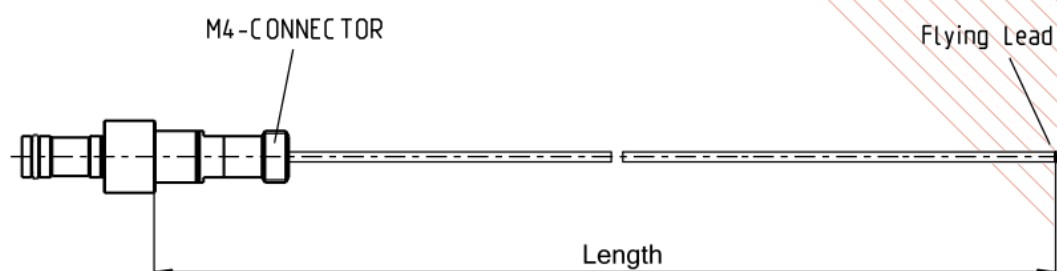
Single Wire Cable SWC3.zzz
zzz = Length in Meters: 1 | 1.5 | 2 | 2.5 | 3
e.g. 1.5 m Cable Length: SWC3.015

Scope of Supply

		Order Code
Sensor IDS-C-B2 with SWC3 Single Wire Cable	1	IDS-C-B2.0
Sensor Type Plate	1	Included
Installation Guide	1	Included
Test Record	1	Included
O-Ring Seal	1 (spare)	DA0433

Accessories

		Order Code
Mounting Nut	Optional	IMA_MN2
Mounting Sleeve	Optional	IMA_MS2
Socket Wrench	Optional	IMA_SW2