

Type 6002A

PRIASAFE™ cavity pressure sensor

- New: mounting proof sensor with housing
- No deviation of calibrated value after mounting
- Sensor front can be machined to adapt the cavity surface
- Basis for quality monitoring and control in injection molding
- Can be connected to any charge amplifier respectively injection molding machine
- Patent pending



1. Sensor in housing



2. Calibrate sensor



Description

A cavity pressure sensor is a highly sensitive measuring instrument that can – if not mounted properly – give wrong measuring results. A possible cause is the so called force shunt which generates a sensitivity loss of the sensor when the sensor front touches the bore.

To prevent this, the cavity pressure sensor type 6002A is mounted into housing and then calibrated. This procedure has the advantage that the sensitivity does not change after the sensor has been installed into the mold because it is “protected” by the housing. The sensor is therefore easy to use, safe and most suitable for industrial production.

Technical data

Measuring range	bar	0 ... 2000
Overload	bar	2500
Sensitivity ¹⁾	pC/bar	- 5
Maximum melt temperature (plastics) in the cavity ²⁾	°C	no limitation
Maximum mold temperature ³⁾	°C	200
Deviation of linearity	%	< ± 1
Natural frequency ⁴⁾	kHz	> 80
Insulation resistance	Ω	> 10 ¹³ (at 20 °C)
Remark		
The sensors including connecting cable can be cleaned in an ultrasonic bath together with the mold inserts if a sealed protecting cap is used (cleaning agent: aqueous tenside solution).		

¹⁾ The exact sensitivity is shown on a separate calibration sheet

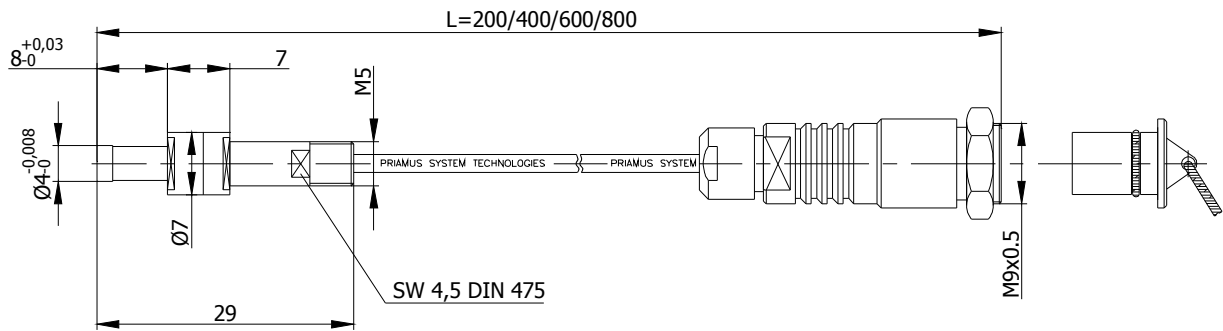
²⁾ The plastic melt cools immediately after contacting the cavity wall. The melt temperature is therefore without any practical meaning for the sensor (thermoplastics). For thermosets and elastomers the permanent melt temperatures are usually below 200 °C

³⁾ The permanent temperature of the sensor body can be higher than the specified value of the mold temperature. The temperature at the cable connector however is limited. In practice there are no mold temperatures higher than 200 °C expected.

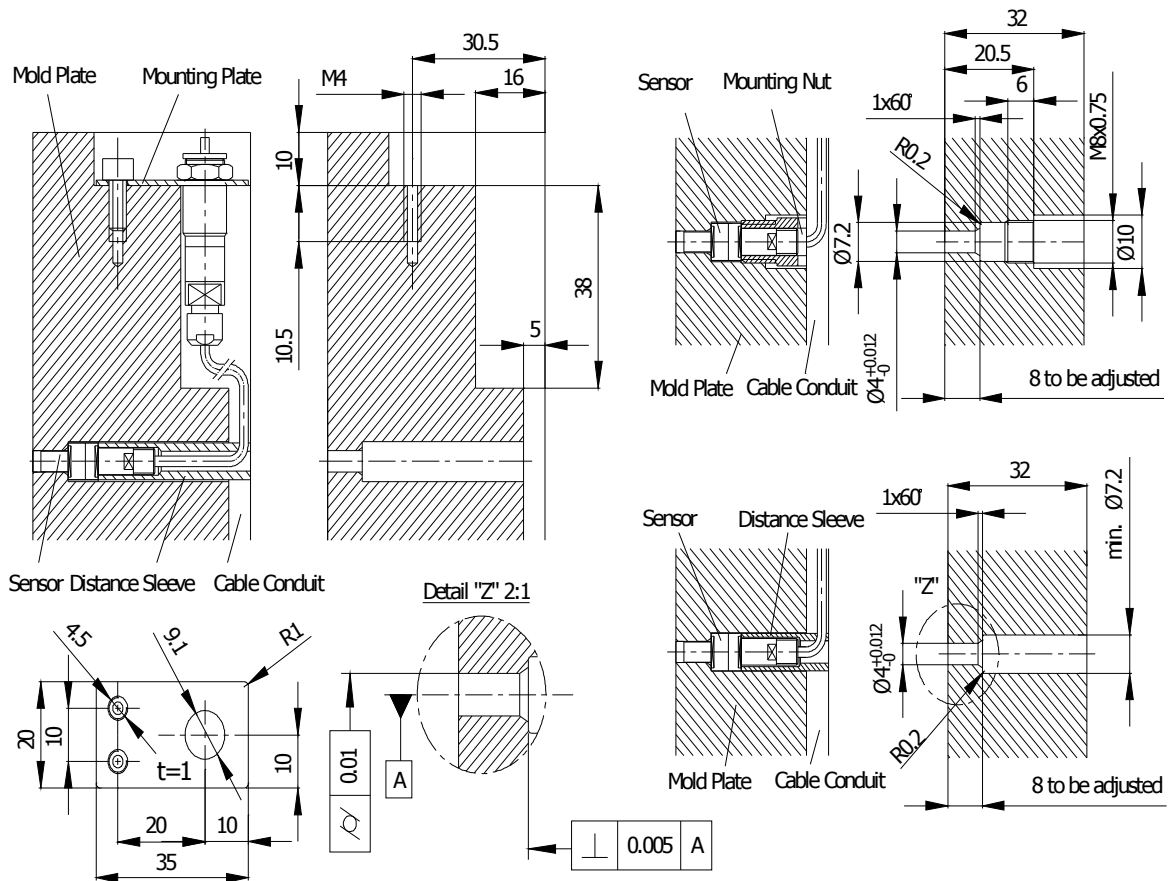
⁴⁾ The actual natural frequency of the sensor is far higher than the frequency spectrum of the effective signal

Dimensions

Type 6002A...



Mounting dimensions



subject to technical amendments



Scope of delivery

Article	Type	Article	Type
Mounting plate	6581A	Identification label	-
Mounting nut	6541A		

Accessories

Article	Type	Article	Type
Mounting / extraction tool for distance sleeve	6561A	Connecting cable	1052A... / 1066A...
Mounting / extraction tool for mounting nut	6562A	Extension cable	1071A... / 1072A
Dummy	6501A	Distance sleeve	6522A

Order codes

Sensor:

Sensor including connecting cable type 1002A...:

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Type 6002A0,2 / 0,4 / 0,6 / 0,8 / 1,0 / 1,2 / 2,0 / 3,0 / 4,0 / 5,0

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