# Mould cavity pressure sensors

Fig.: Sensor 2,5 and 4mm

- **Compact pressure sensor for use in the mould cavity**
- **Range 0 … 2000 bar**
- **Mounting thread M4x0,35**
- **Sensor-diameter 2,5 or 4 mm**
- **Direct connection to NOLDEN hotrunner controllers**

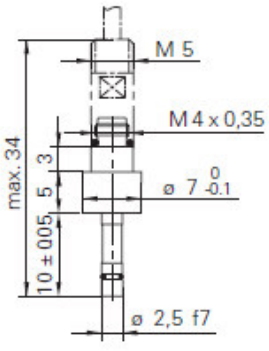
**Application :**
These highly precise piezoelectric pressure sensors are specially designed for very quick measurement directly in the mould cavity.
Together with the sensor- and connecting cable available as accessories, they can be connected directly to the NOLDEN hot-runner controllers series 6000 and 7000 without any additional equipment. Analysis and tracing of the pressure data is done on the touch-screen of the controller, you can also enter here the desired pressure threshold values as well as the configuration data for the sensor. The controller gives then an alarm for non-sufficient mould pressure and assures also the pressure hold switching for the injection press, if desired.

## Product overview

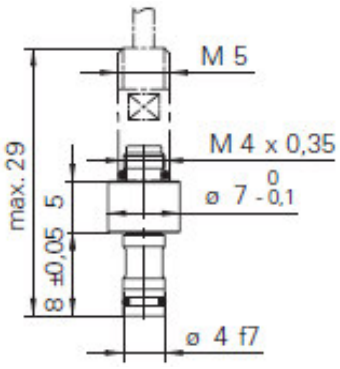
| *Product :* | *Art.-nr :* |
|---|---|
| Mould pressure sensor 4,0mm | 58040.01 |
| Mould pressure sensor 2,5mm | 58040.02 |
| Special mounting nut for pressure sensors 2,5 and 4mm | 58040.03 |
| Key for mounting nut | 58040.04 |
| Sensor cable length 1m | 58040.05 |
| Connection cable length 4m | 58040.10 |

For each pressure measurement channel, one sensor, sensor cable **and** connection cable are required.

**Dimensions**
**Sensor 2,5mm :**




**Sensor 4,0mm :**

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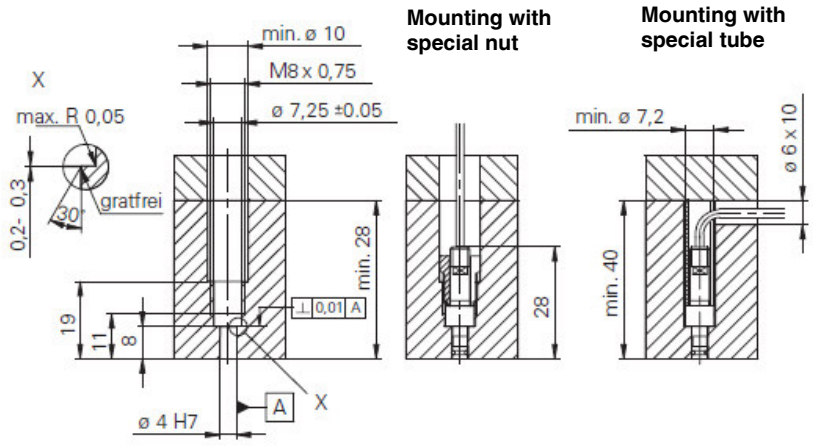
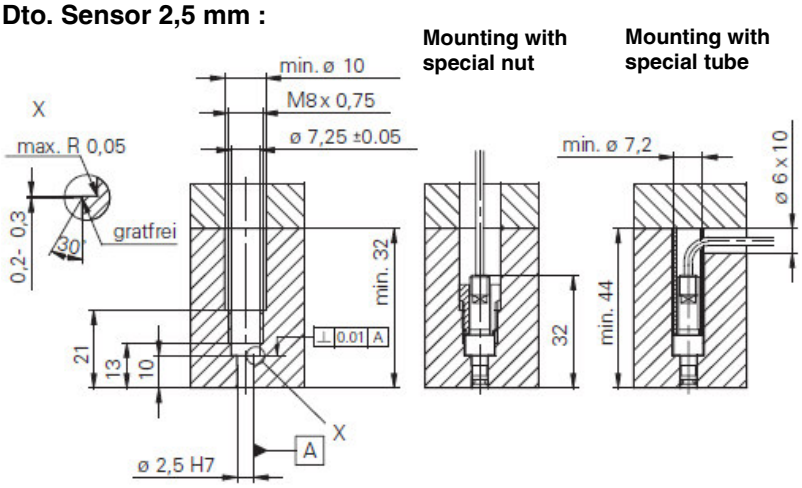
**Dimensions Sensor 4,0mm :**




**Dto. Sensor 2,5 mm :**




**Specification :**

Measurement type : Piezoelectric quartz
Range : 0.... 2.000 bar
Overload : 2.500 bar
Nominal sensitivity : -2,5 pCb / bar
Linearity : < 1% v.E.
Natural frequency : > 80 kHz
Insulation resistance
@ 20°C : > $10^{12}$ Ohm

@ 200°C : > $10^{11}$ Ohm

Mecanical specification :
Mounting thread : M4x0,35
Housing material : Stainless steel

Environmental conditions :
Operational temp. range : 0 ....200°C
Mass temperature on sensor head : < 400°C
Protection with connector : IP 65

Sensor cable :
Cable-diameter 2,4mm, length 1m, Coax, Low-Noise, PTFE/PFA steel-wire mesh, operational temperature 220°C, one side mini-connector for sensor, other side Fischer-connector

Connecting cable :
Cable-diameter 3,4mm, length 4m, Triax, Low-Noise, PTFE/PFA transparent, operational temperature 200°C, one side Fischer-connector for sensor cable, other side BNC-connector

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