

## Type 6411A

### Force sensor

- Small dimension
- Separable connecting cable
- Sensor can still be used even if the cable was damaged
- Maximum operating temperature: 200 °C (390 °F)
- Suitable for injection molding processes as well as for other industrial applications



### Description

The force sensor type 6411A stands out in its small dimension and is equipped with a separable connecting cable. This has the major advantage that – even the cable was damaged - the sensor can still be used.

Furthermore the force sensor can be operated by a maximum temperature range from up to 200 °C (390 °F). This corresponds with mold temperatures which can be often found in injection molding processes. Comparable force sensors however are usually limited to 120 °C (250 °F).

The sensor is not only suitable for injection molding process but can also be used for general industrial force measurement.

### Technical data

Measuring range	N	0 ... 2500
Overload	N	3000
Sensitivity <sup>1)</sup>	pC/N	- 4,4
Maximum mold temperature <sup>2)</sup>	°C	0 ... 200
Deviation of linearity	%	< +/- 1
Natural frequency <sup>3)</sup>	kHz	≈ 200
Insulation resistance (at 20 °C)	Ω	≥ 10 <sup>13</sup>

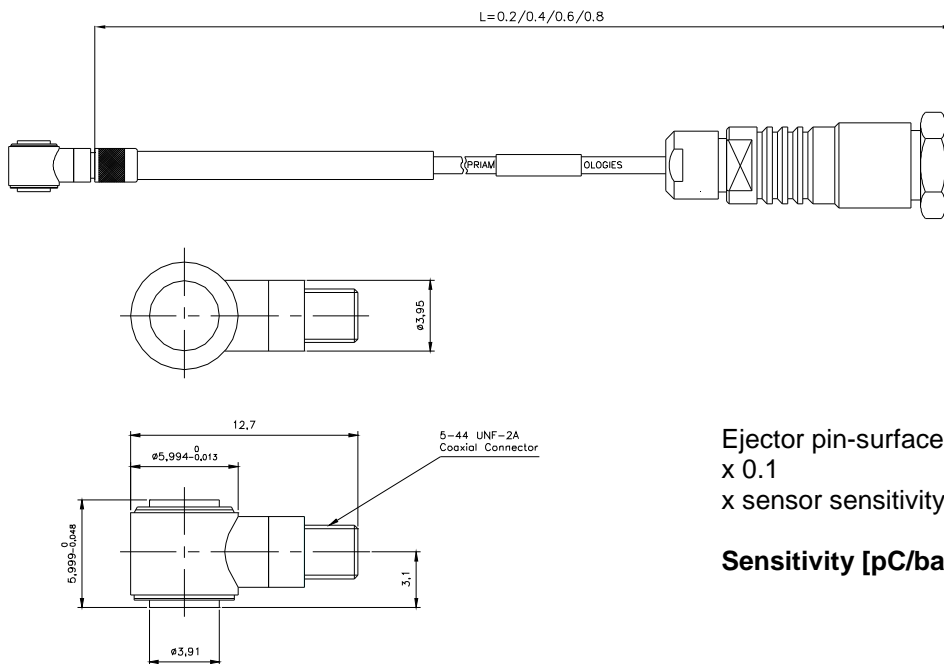
<sup>1)</sup> The exact sensitivity is shown on a separate calibration sheet

<sup>2)</sup> 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.

<sup>3)</sup> The natural frequency of the sensor is far higher than the frequency spectrum of the effective signal

## Dimensions

### Type 6411A...

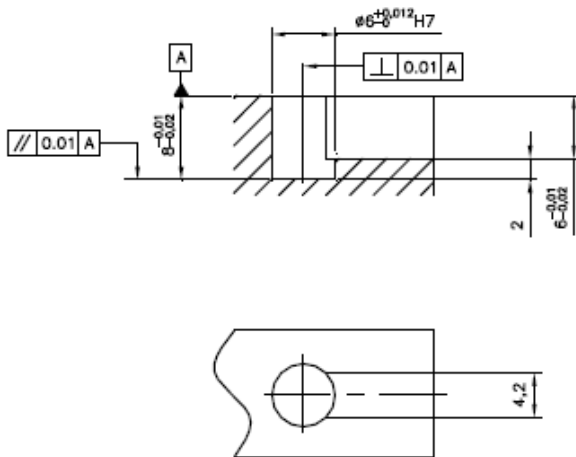


Ejector pin-surface [mm<sup>2</sup>]  
x 0.1  
x sensor sensitivity [pC/N] =

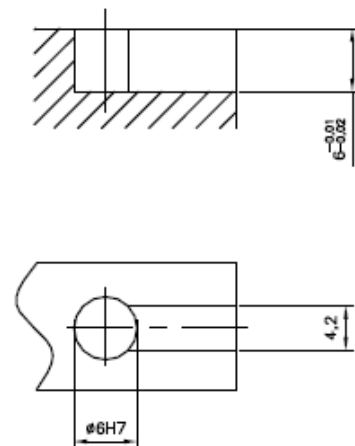
**Sensitivity [pC/bar]**

## Mounting dimensions

Mounting with pressure disc



Mounting



Subject to technical amendments



### Scope of delivery

Article	Type	Article	Type
Mounting plate	6581A	Identification label	-
Washer	6412A		

### Accessories

Article	Type	Article	Type
Connecting cable	1052A...		

### Order codes

Sensor:

Sensor including connecting cable type 1006B...:

Type 6411A

Type 6411A0,2 / 0,4 / 0,6 / 0,8 / 1,0 /  
1,2 / 2,0 / 3,0 / 4,0 / 5,0

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