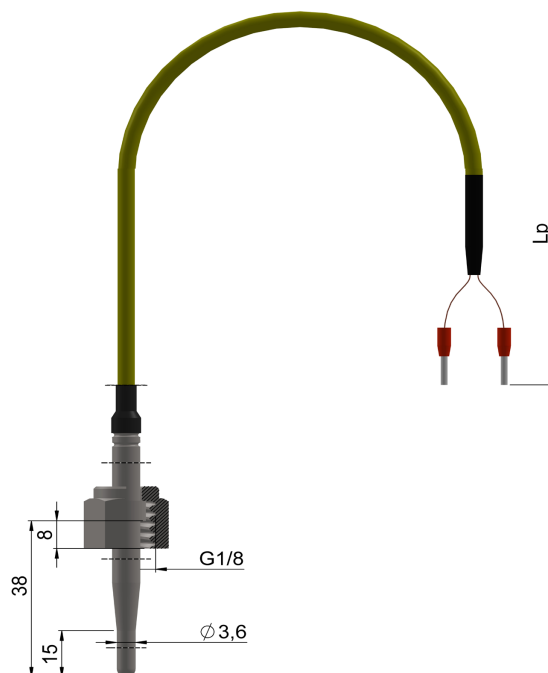


## Temperature sensors of machinery and device parts **TOPE-408**

### Technical description

Measuring range / sensing element		
(-50 ÷ 250) °C	<b>Pt100</b>	class B
Sheath		
– material: steel 1.4541		
– diameter [mm]: $\varnothing 3,6$		
– length [mm]: 38		
– thread: G $\frac{1}{8}$ (standard)		
Lead wire		
– Cu wire: 2, 4x0,22 mm <sup>2</sup> in double silicone insulation		
– length L <sub>p</sub> =1,5m (standard)		
– wires resistance Cu ~0,14 $\Omega$ /m~0,36 °C		
Options		
– Pt500, Pt1000, Ni100, Ni1000		
– other lead wire insulation types: PVC, teflon, acc. to requirements		
– 3-, 4-wire connection		
– Pt100: class A (-30 ÷ 250) °C, class AA (0 ÷ 150) °C		



#### Response time T05/T09

Sensor type	$\varnothing 9$	$\varnothing 11$
Pt	$\leq 33/\leq 95$	$\leq 40/\leq 120$

#### Resistors tolerance acc. to PN-EN 60751

Class	Wire wound resistor	
	Range [°C]	Tolerance [°C]
AA	(-50÷250)	$\pm(0,1+0,0017 \cdot  t )$
A	(-100÷450)	$\pm(0,15+0,002 \cdot  t )$
B	(-196÷600)	$\pm(0,3+0,005 \cdot  t )$

### Ordering code

Temperature sensor	TOPE-408	- ... -	... -	... -	... -	...
Resistor type	Pt100*					
Resistor class	A, B*					
Measuring circuit for RTD	2, 3, 4					
Thread dimension	G $\frac{1}{8}$ ; G $\frac{1}{16}$ *					
Cable length L <sub>p</sub> [m]	1,5m*					

\* or others acc. to requirements

### Ordering example

**TOPE-408-Pt100-A-3-G $\frac{1}{8}$ -1,5m** sensor with Pt100, class A, 3-wire connection, with cable in silicone insulation, lead wire length L<sub>p</sub>=1,5m, z nakrętką G $\frac{1}{8}$

**TOPE-408-Pt500-B-2-G $\frac{1}{16}$ -2m** sensor with Pt500, class B, 2-wire connection connection, with cable in silicone insulation, lead wire length L<sub>p</sub>= 2m, z nakrętką G $\frac{1}{16}$