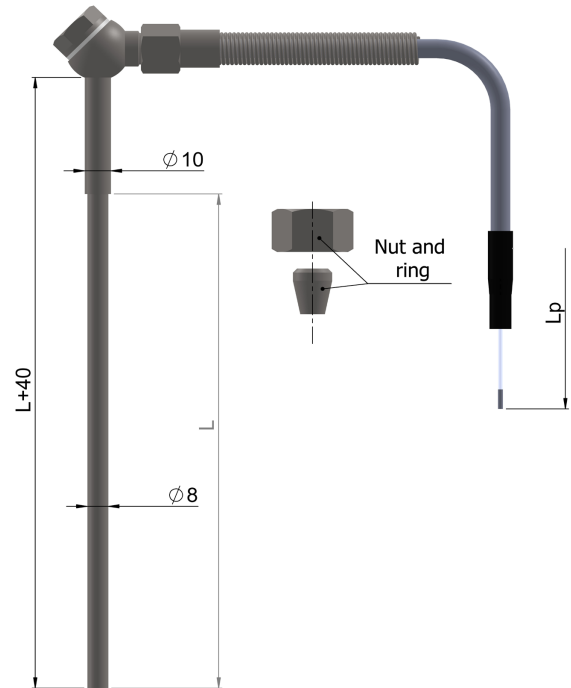


## Temperature sensor for shipbuilding industry **TTKLE-1**

### Technical description

Measuring range / sensing element		
(-40 + 800) °C	<b>K</b>	class 2
Thermowell		
– material: steel 1.4541		
– length L [mm]: 100+500		
Connection head		
– material: steel 1.4541, IP 65, 100 °C		
Wire		
– wire: 2×1,5 mm <sup>2</sup> in double silicone insulation and metal braided		
– length L <sub>p</sub> = 2m (standard)		
Options		
– nut G½ and a sheath mounting ring		
Additional accessories		
– compensation cables – p. 197		



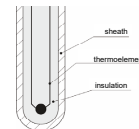
#### Response time T05/T09

Sensor type	ø9	ø11
J, K insulated junction	≤22/≤62	≤a27/≤90
J, K grounded junction	≤3/≤8	≤6/≤15

#### Tolerance for thermocouples class acc to. PN-EN 60584

Thermocouple	Class 1		Class 2	
	Range [°C]	Tolerance [°C]	Range [°C]	Tolerance [°C]
<b>K</b> NiCr-NiAl	(-40+375) (375+1000)	±1,5 ±0,004  t	from (-40+333) (333+1200)	±2,5 ±0,0075  t

#### Types of measuring hot junction



### Ordering code

so

Temperature sensor		TTKLE-1	- ... - ... - ...
Sheath length L [mm]		100*	
Cable length L <sub>p</sub> [m]			2m*
Additional accessories: ring and nut G½			<b>G</b>

\* or others acc. to requirements

### Ordering example

**TTKLE-1-200-3m** sensor with thermocouple NiCr-NiAl, class 2, sheath length L = 200 mm, cable length L<sub>p</sub> = 3m

**TTKLE-1-300-2m-G** sensor with thermocouple NiCr-NiAl, class 2, sheath length L = 300 mm, cable length L<sub>p</sub> = 2m, with sheath mounting ring and nut G½