

# HIGH TEMPERATURE CABLE SENSOR

TSK3-Series

## FEATURES

- High temperature 260°C
- Universal application
- High measuring accuracy
- Mounting in any direction
- EN 60730-2-9 approved

## OPTIONS

- Dual sensor (2 x NTC/Pt)
- Tube fixing strip
- Mounting bracket or flange

## APPLICATIONS

- Solar
- Ovens
- Catering equipment
- Fryers
- Pellet burners



## GENERAL INFORMATION

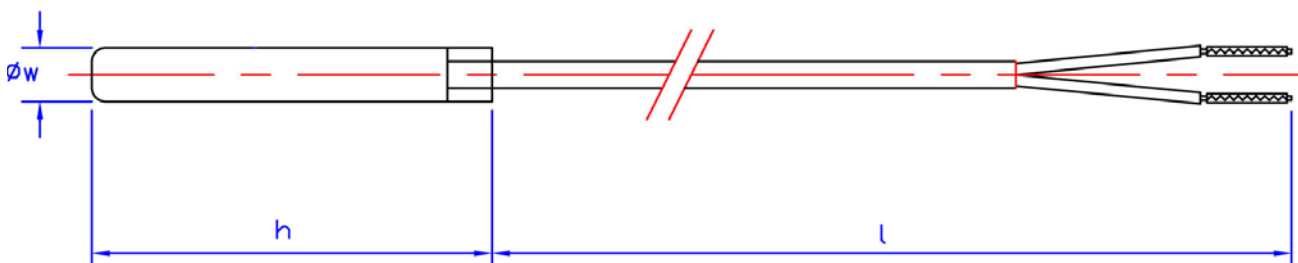
The Tasseron high temperature cable sensor is developed specifically for applications in extreme conditions. The line-welded wire connections and the PTFE cable guarantee a long-term functioning in a temperature range of -40...260°C. The stainless steel (AISI 304) tube is available in various dimensions.

The sensor measures indirectly when placed in an immersion well or installed onto a pipe or surface. For direct measurement it can be placed in the medium (water, oil, gas, air etc.), using a flange.

## GENERAL TECHNICAL INFORMATION

Characteristic	Parameter	Value	Unit
Operating temperature	$T_{op}$	-40...260	°C
Resistance tolerance NTC (@25°C)	$\Delta R_R$	$\pm 1$	%
Resistance tolerance Pt100 (Class B)	$\Delta R_R$	$\pm 0,12$	$\Omega$
Resistance tolerance Pt1000 (Class B)	$\Delta R_R$	$\pm 1,2$	$\Omega$
Temperature coefficient Pt100/Pt1000	TCR	3850	ppm/K
Insulation resistance	$R_{ins}$	>200	M $\Omega$
Test Voltage (t = 1s)	$V_{test}$	2000	$V_{AC}$

## MEASUREMENTS & MATERIALS



### Standard

Tube sizes ( $\varnothing w \times h$ ) : 5 x 30 mm / 5 x 45 mm / 6 x 45 mm  
 Tube material : AISI 304 (DIN 1.4301)  
 Cable lengths (l) : 1m / 3m / 5m  
 Cable type : AWG24 2 x 0.205 mm<sup>2</sup>, PTFE  
 Electrical connection : Splice

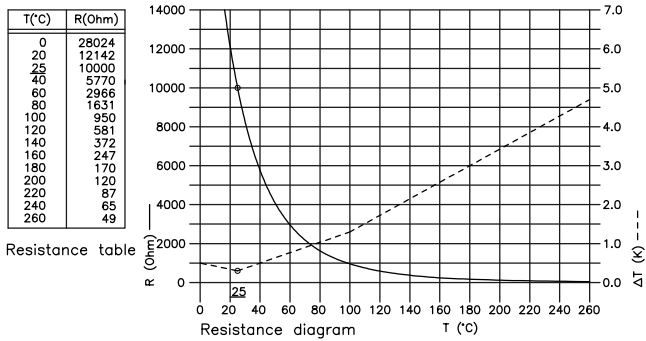
### Options

Pipe mounting brackets :  $\varnothing 15$  mm /  $\varnothing 18$  mm /  $\varnothing 22$  mm /  $\varnothing 28$  mm  
 Tube fixing strip : AISI 304 (DIN 1.4301)  
 Dual sensor (Duplex) : 2 x NTC/Pt  
 Connector : Molex Minifit Jr.

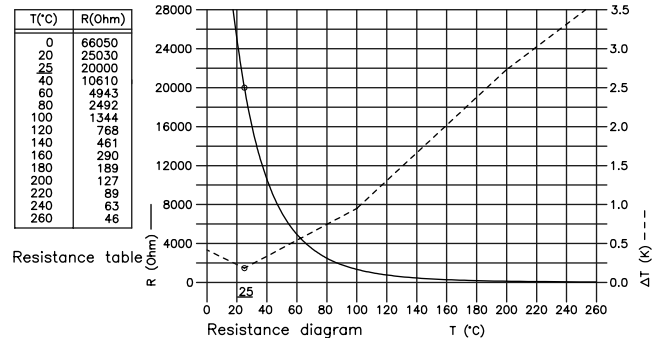
(Other dimensions or connectors on request)

## AVAILABLE SENSOR VALUES

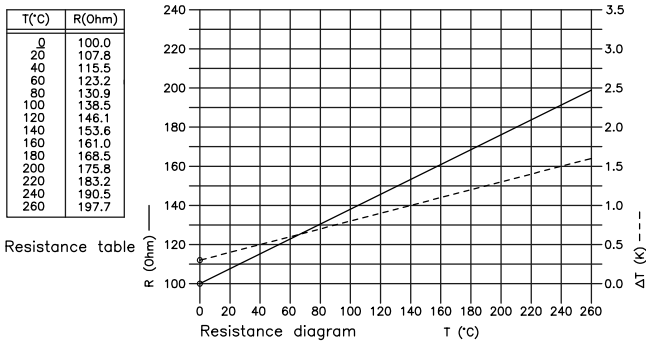
### NTC 10K 3%@60°C B3435



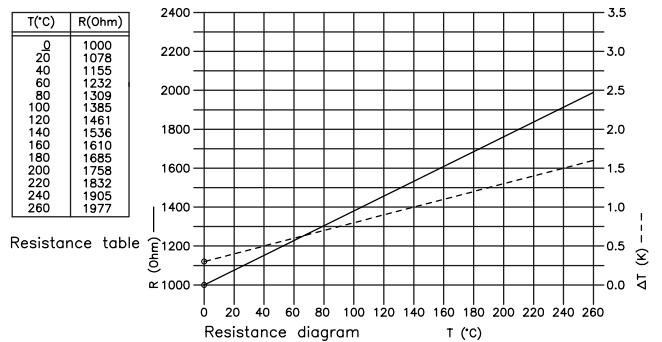
### NTC 20KΩ 1%@25°C B3970



### Pt100 (IEC751, class B)



### Pt1000 (IEC751, class B)



## ORDERING INFORMATION

Example : TSK 3 45 6  
 Cable sensor | High temperature | Pt1000 | Ø6 x 45 mm tube, 1m cable

TSK 3



Measuring element	Tube size	+ Cable length
0D = NTC 10K 3% B3435	0 = Ø5 x 30 mm	1 m
0C = NTC 20K 3% B3970	1 = Ø5 x 30 mm	3 m
41 = Pt100 (IEC751, class B)	2 = Ø5 x 30 mm	5 m
45 = Pt1000 (IEC751, class B)	3 = Ø5 x 45 mm	1 m
	4 = Ø5 x 45 mm	3 m
	5 = Ø5 x 45 mm	5 m
	6 = Ø6 x 45 mm	1 m
	7 = Ø6 x 45 mm	3 m
	8 = Ø6 x 45 mm	5 m

Other measuring elements, cable lengths and connectors on request.

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