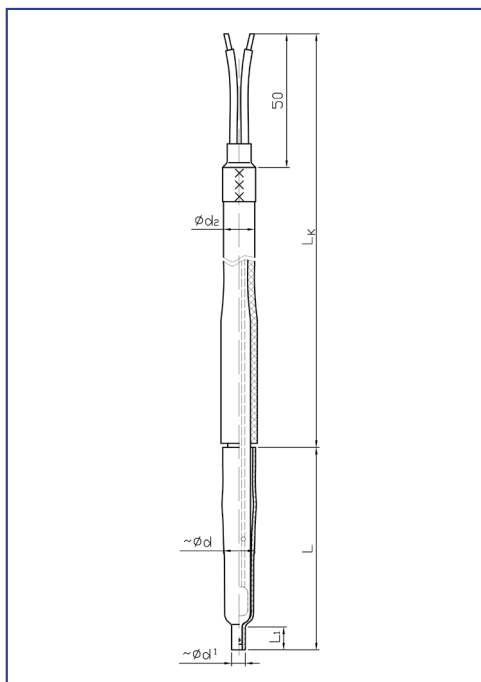


TOP-OP-30

Resistance Thermometer Pt100 Miniature Straight with shrinkable insulation sleeve



Resistance thermometer Pt100 or PTC type TOP-OP-30 has been designed for measurement of electric motor winding temperature.

Resistor is protected by Cu braid which works as an screen as well; the outer sheath is made of thermal-shrink insulation sleeve.

The thermometer features excellent dynamic characteristic.

Technical specification

RTD type	Version	Characteristic	Measuring range (standard/*shockproof)	Accuracy class	Max. sensor current	Lead wire config.
1xPt100 / 2xPt100	standard / *shockproof	acc. EN-60751	-50°C..+180°C / *(-50°C..+180°C)	B	8 mA	2, 3, 4 wire
			-50°C..+180°C / *(0°C..+150°C)	A	5 mA	3, 4 wire
			-50°C..+180°C / *(0°C..+150°C)	1/3B (AA)	3 mA	

Measuring element	Version	Characteristic	Measuring range	Max. sensor current	Lead wire config.
Thermistor PTC	standard	acc. DIN 44081 and DIN 44082	on request	8 mA	2 wire
				5 mA	

Insulation sleeve diam. d/d ₁ (approx)	Material	Length L/L ₁ (approx)
specify in mm (depends on measuring element)	PVC	on request

Configuration	Cable dimension d ₂	Connection Cable Type	Insulation	Temp. limits
2 wire	∅ 4,3	L2SDS-2x0,25mm2	silicone, screen, silicone	+180°C
3, 4 wire	∅ 4,4	L4TDS-4x0,25mm2	teflon, screen, silicone	+180°C

Non-standard models available.

Ordering Information

TOP-OP-30	A	B	C	D	E	F	G	H
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A Measuring Element	
1xPt100	RTD Single Pt100
nxPTC type	No. of PTC sensors

B RTD Pt100 Class	
B	B
A	A
1/3B	1/3B (AA)

C Insulation sleeve diameter d/d₁ (approx)	
	specify in mm

D Insulation sleeve length L/L₁ (approx)	
	specify in mm

E Lead wire configuration and cable type	
2p-L2SDS	2 wire (L2SDS-2x0,25mm ²)
3p-L4TDS	3 wire (L4TDS-4x0,25mm ²)
4p-L4TDS	4 wire (L4TDS-4x0,25mm ²)

F Cable length L_K	
	specify in mm

G Operating temperature	
	specify in °C

H Version	
Z	Standard (ceramic wire wound element)
W	Shockproof (thin-film element)

Ordering Example

TOP-OP-30-1xPt100-A-4/2,5-40/8-3p-L4TDS-1000-100-Z

stands for: Resistance thermometer, with resistor 1xPt100 class A, insulation sleeve diameter d=4 mm and d₁=2,5 mm, insulation sleeve length L=40 mm and L₁=8 mm, configuration 3-wire, cable type L4TDS, cable length 1000 mm, operating temperature up to 100°C, standard sensor version (ceramic wire wound element).

www.alf-sensor.com