Cable Temperature Sensor

Passive cable type temperature sensor for measuring the temperature in pipe and air applications. Incorporates a stainless steel probe and plenum rated cable.

Type Overview

Type	Output Signal Passive Temperature	Probe Length	Probe Diameter	Weight
01CT-5AH	PT100	2" [50 mm]	0.24" [6 mm]	-
01CT-5BH	PT1000	2" [50 mm]	0.24" [6 mm]	-
01CT-5EH	Ni1000 (JCI)	2" [50 mm]	0.24" [6 mm]	-
01CT-5LH	NTC10k2	2" [50 mm]	0.24" [6 mm]	-
01CT-5MH	NTC10k3	2" [50 mm]	0.24" [6 mm]	-
01CT-5QH	NTC20k	2" [50 mm]	0.24" [6 mm]	-

Technical Data

Electrical Data	Electrical Connection	cable 6.5 ft. [2 m], 2-wire
	Cable Specification	1 pair shielded plenum cable, 22AWG tinned copper, green jacket, -40°F to 300°F (-40°C to 150°C), 300 V
Functional Data	Output Signal Passive Temperature	PT100 PT1000 Ni1000 (JCI) NTC10k2 NTC10k3 NTC20k
	Media	air water
Measuring Data	Measured Values	temperature
	Measuring range temperature	-30°F to 210°F [-35°C to 100°C]
	Accuracy temperature passive	passive sensors depending on used type PT.. = ±0.5°F @ 32°F [±0.3°C @ 0°C] Ni.. = ±0.7°F @ 32°F [±0.4°C @ 0°C] NTC.. = ±0.3°F @ 77°F [±0.2°C @ 25°C]

Safety Data	Ambient Humidity	85% RH non-condensing
	Ambient Temperature	-30°F to 210°F [-35°C to 100°C]
	Medium Temperature	-30°F to 210°F [-35°C to 100°C]
	Protection Class IEC/EN	III protective extra-low voltage (pelv)
	Protection Class UL	UL Class 2 Supply
	EU Conformity	CE Marking
	Certification IEC/EN	IEC/EN 60730-1 and IEC/EN 60730-2-9
	Certification UL	cULus acc. to UL60730-1A/-2-9, CAN/CSA E60730-1:02/-2-9, CE acc. to 2004/108/EC and 2006/95/EC, NEMA 4X, IP67
	Degree of Protection IEC/EN	IP67
	Degree of Protection NEMA/ UL	NEMA 4X
	Quality Standard	ISO 9001
	Weight	0.065 lbs

Safety Notes

⚠ The installation and assembly of electrical equipment should only be performed by authorized personnel.
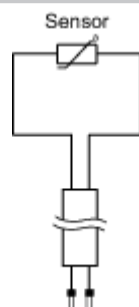
The product should only be used for the intended application. Unauthorized modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installing. Do not connect to live/operating equipment.
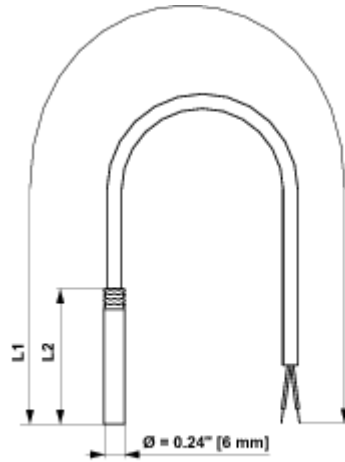
Please comply with
• Local laws, health & safety regulations, technical standards and regulations
• Condition of the device at the time of installation, to ensure safe installation
• This data sheet and installation manual

Accessories

Optional accessories air	Description	Type
	Mounting flange 0.24" [6 mm], plastic (adjustable), up to max. 248°F [120°C]	A-22D-A03
	Mounting flange 0.24" [6 mm], brass, up to max. 500°F [260°C]	A-22D-A05

Wiring Diagram

Dimensions

Humidity seal rolling

L1: cable length
L2: pocket length

Ø = 0.24" [6 mm]

L1 = 6.56 ft [2 m]
L2 = 1.97" [50 mm] / 3.94" [100 mm] / 7.87" [200 mm]