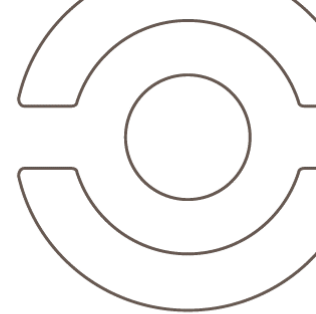




THAB

Digital Thermocouple conditioner
0...5V analog output

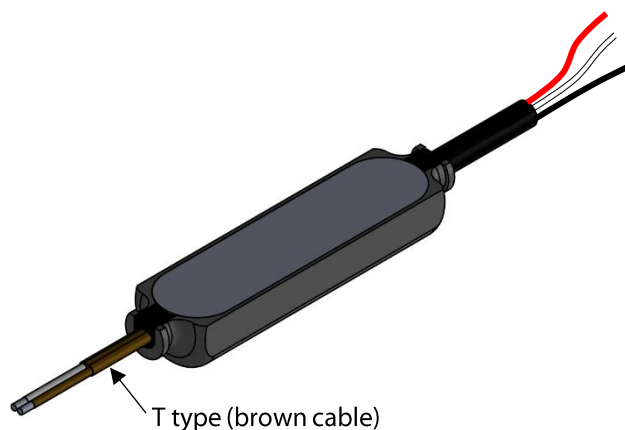
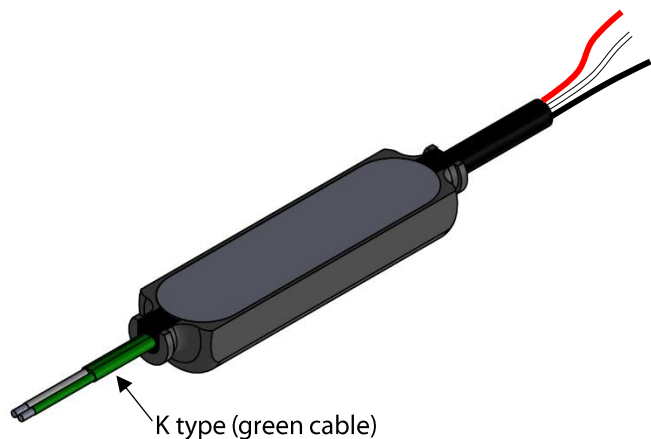
Texense sensors are designed for data logging. Should the users want to include this sensor in a closed loop system, they must undertake total responsibility from doing so.

Measurement features		
Range	-100°C min to +1300 max (refer to \$Available ranges)	°C
Type	K or T	
Calibrator	Fluke 714B or 753	
Sampling frequency	5	Hz
Accuracy	±0.25	%FS
Sensitivity	Refer to \$Available ranges	
Electrical features		
Supply Voltage	10 to 30	V
Supply Current	3	mA
Output voltage	0 to 5	V
Output Impedance	47	Ω
Mechanical features		
Dimension	50 x 12 x 8	mm
Material	Aluminum	
Weight (without cable)	9	g
Environment		
Protection	IP64	
Vibration test	20Gpp5'	
Shock	500	G
Operating Temp	-40 to +125	°C
Storage Temp	-40 to +125	°C

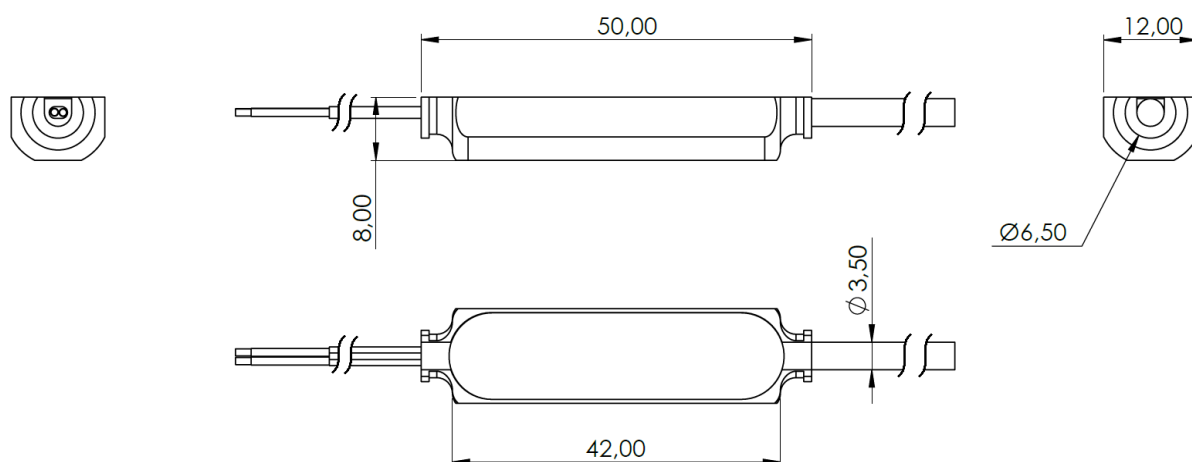
Cable 1 (thermocouple cable)		
Thermocouple Extension Cable – PFA Insulated Flat K type or T type – conductor 7/0.2mm-0.219 mm ² (-75°C/+260°C) Length: 1000mm Tubing: Connector:		
Color	Function	Pin
Green (for K type) Or Brown (for T type)	+Thermocouple	
White	-Thermocouple	

The Thermocouple probe wires must be isolated from supply ground

Cable 2 (cable to logger)		
3x26 AWG FEP tinned copper braided cable 250V 200°C Length: 1000mm Tubing: Connector:		
Color	Function	Pin
Red	Supply	
Black	0V	
White	Analog output	
Braid		



Mechanical drawing



Available ranges

Type	Ordering code	Output (V)		Sensitivity (mV/°C)
		at -FS	at +FS	
K	K0+120	0.100	4.900	40.0
	K-50+200	0.000	5.000	20.0
	K0+1000	0.000	5.000	5.0
	K-100+400	0.000	5.000	10.0
	K0+1250	0.000	5.000	4.0
	K-100+1300	0.700	4.900	3.0
T	T-20+150	0.000	4.750	25.0
	T-50+200	0.000	5.000	20.0
	T-100+300	0.000	5.000	12.5
	T-100+400	0.000	5.000	10.0

Ordering information

Ordering ref:

THAB- Type/Range

K0+120 : K type 0°C to +120°C

K-50+200 : K type -50°C to +200°C

...

T-100+400 : T type -100°C to +400°C

ex: THAB-K-50+200