

INFKL

Infrared Temperature Sensor

INFKL-###

SN: I#####

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.

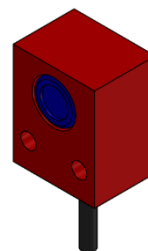
Measurement features			
Range		150, 200, 800	°C
Accuracy		±3	%FS
Sensitivity at +Full-scale		30, 20, 5	mV/°C
Response time		100	ms
Sensitive Element		Thermopile with silicon lens	
Wave Length		8 to 14	µm
Measurement distance		30 to 150	mm
Field of view (90% radiation)		2.5 : 1	
Calibrator Reference	Ranges 150, 200	Land P550P	
	Range 800	Land R1200P	
Calibrator Emissivity		99%	
Electrical features			
Supply Voltage		5	V
Supply Current		1.5	mA
Protection		Reverse voltage and short circuit protection	
Output signal		0-5	V
Mechanical features			
Dimensions		20 x 16 x 12	mm
Material		Aluminum	
Weight (without cable)		15	g
Environmental features			
Protection		IP64	
Vibration test		20Gpp 5'	
Shock		500	G
Operating Temp	150, 200	0 to +40	°C
	800	0 to +60	
Storage Temp		-40 to +125	°C

Date		Operator	
Customer			
Order			
Ref	INFKL-###		

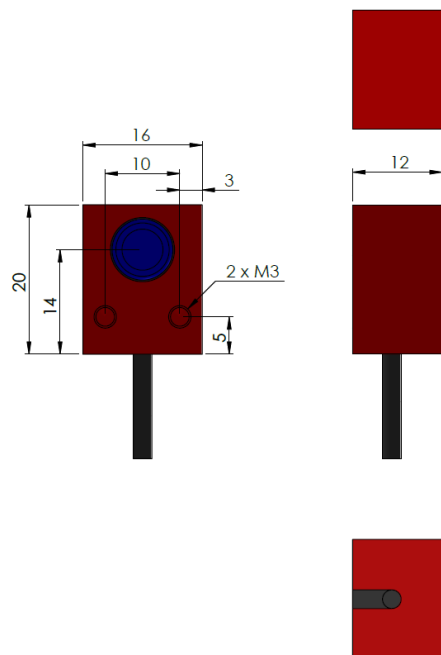
Sensor readings	
Calibrator temperature (°C)	Signal output value (V)
... °C	...V
... °C	...V

Cable		
3x26AWG FEP tinned copper braided cable 250V 200°C Length: 1000 mm ±10% Tubing: None Connector: N/A		
Color	Function	Pin
Red	Supply	-
White	Signal	-
Black	0V	-
Braid	-	

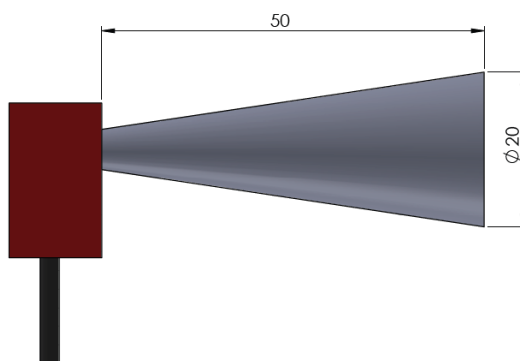
Calibration table			
Target temperature (°C)	Voltage per range (V)		
	150 (30mV/°C)	200 (20mV/°C)	800 (5mV/°C)
0	0.40	0.50	0.50
20	1.00	0.90	0.60
40	1.60	1.30	0.70
60	2.20	1.70	0.80
80	2.80	2.10	0.90
100	3.40	2.50	1.00
150	4.90	3.50	1.25
200		4.50	1.50
400			2.50
600			3.50
800			4.50



Mechanical drawing



FOV (field of view)



Ordering information

Ordering ref:

INFKL-Range

150: 150°C

200: 200°C

800: 800°C