IRN2-HR (High Range)

Infrared Temperature Sensor High Range

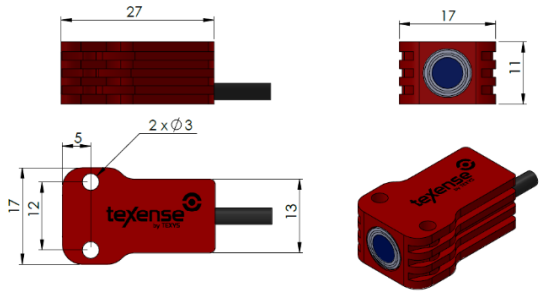
Measurement features			
Available ranges		600, 800, 1000 or 1200	°C
Accuracy (1)		2	%FS
Ambient temperature error		±0.5	°C
Response time (0 to 90%)		50	ms
Sensitive Element		Thermopile with silicon lens	
Wavelength		8 to 14	µm
Measurement distance		20 to 100	mm
Field of view (90% radiation)		5:1 at 50mm	
Calibrator reference		Land P550P and Land R1200P	
Calibrator emissivity		99%	
Emissivity and distance tuning		Gain factor from 0.1 to 10	
Electrical features			
Supply Voltage	3V version	3.3 to 30	V
	5V version	5.5 to 30	
	10V version	10.5 to 30	
Supply Current		4	mA
Protections		Reverse voltage and short circuit protections	
Analog output signal	3V version	0…3	V
	5V version	0…5	
	10V version	0…10	
Analog output impedance		47	Ω
Digital output feature		ASCII data at 50Hz	
Mechanical features			
Materials and dimensions		See §Housing options	
Weight wo cable	Al	15	g
	SS 316 L	21	g
Environmental features			
Protection		IP65	
Vibration test		20Gpp 5'	
Shock		500	G
Operating Temp		-20 to +120	°C
Storage Temp		-40 to +125	°C

(1) See calibration tables for more details.

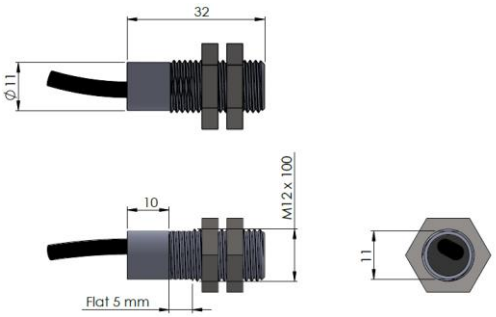
Texense sensors are designed for data logging. Should the users want to include this sensor in a closed loop system, they must undertake total responsibility from doing so.

Housing options

"T": Aluminium shape housing



"V": Aluminium M12 housing



Ordering informations

IRN2 *Housing – Range – Output*

T:	T shape	*3:*	0…3V signal
T-RA:	T shape with right angle cable output	*5:*	0…5V signal
TS:	TS shape	*10:*	0…10V signal
TS-RA:	TS shape with right angle cable output		
V:	M12 shape, Aluminium material	*600:*	0°C…600°C range
V-I:	M12 shape, SS316L material	*800:*	-0°C…800°C range
VD-I:	M12 shape w D cut, SS316L material	*1000:*	0°C…1000°C range
		1200:	0°C…1200°C range

ex: IRN2V-1000-5