



IRDLF

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Digital Infrared Temperature Sensor For low emissivity materials

Range From 50 to 800°C
Accuracy 1% FS
Sensitivity Linear output. See calibration table. In mV/°C
Response time 3 ms

Supply voltage 5.5 to 30 V
Supply current 4 mA
Output voltage std (Supply > 5V) 0 to 5 V

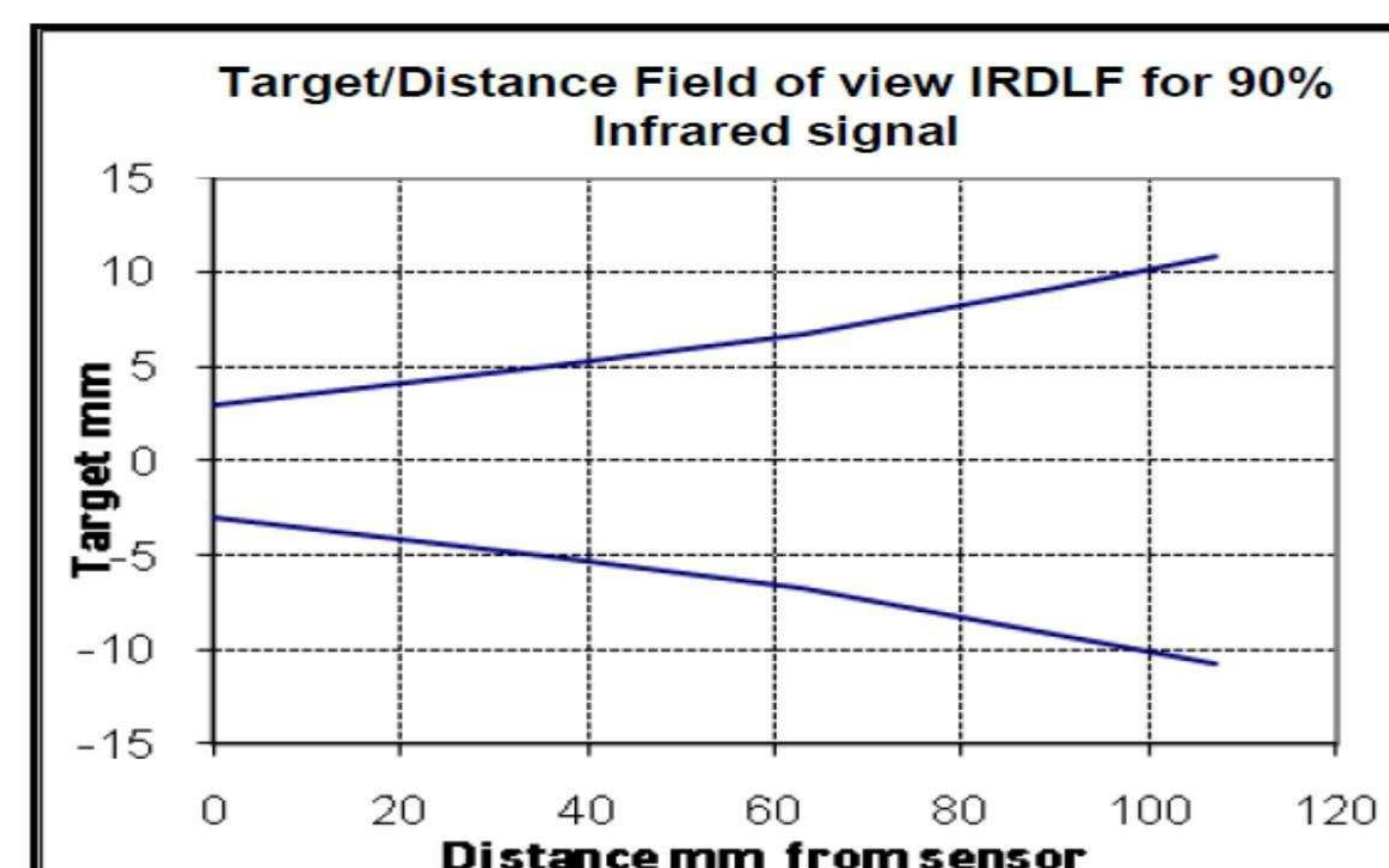
Output impedance 47 Ω
Parameters* Gain factor

Sensitive element Photodiode with Germanium lens
Wave length 2 to 2.5 μm
Measurement distance 20 to 120 mm
Field of view (90% radiation) 4:1 @ 40 mm
 5:1 @ 100 mm
Emissivity (factory tuning) > 99 %
Emissivity/Distance tuning* Gain factor 0.1 to 10

Operating temperature 0 to +80 °C
Storage temperature -25 to +125 °C

*Only with Texense USB-Connect

"V" type



°C	1000°C 4mV/°C
0	0.50
50	0.70
100	0.90
150	1.10
200	1.30
250	1.50
300	1.70
400	2.10
500	2.50
600	2.90
700	3.30
800	3.70
900	4.10
1000	4.50

Out of range

1 m cable of 4X26AWG FEP
 tinned copper braided cable 250V 200°C

Red Supply
Black 0 V
Braid Not connected
White Analog signal
Green* Digital signal

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texense
world pro by TEXYS



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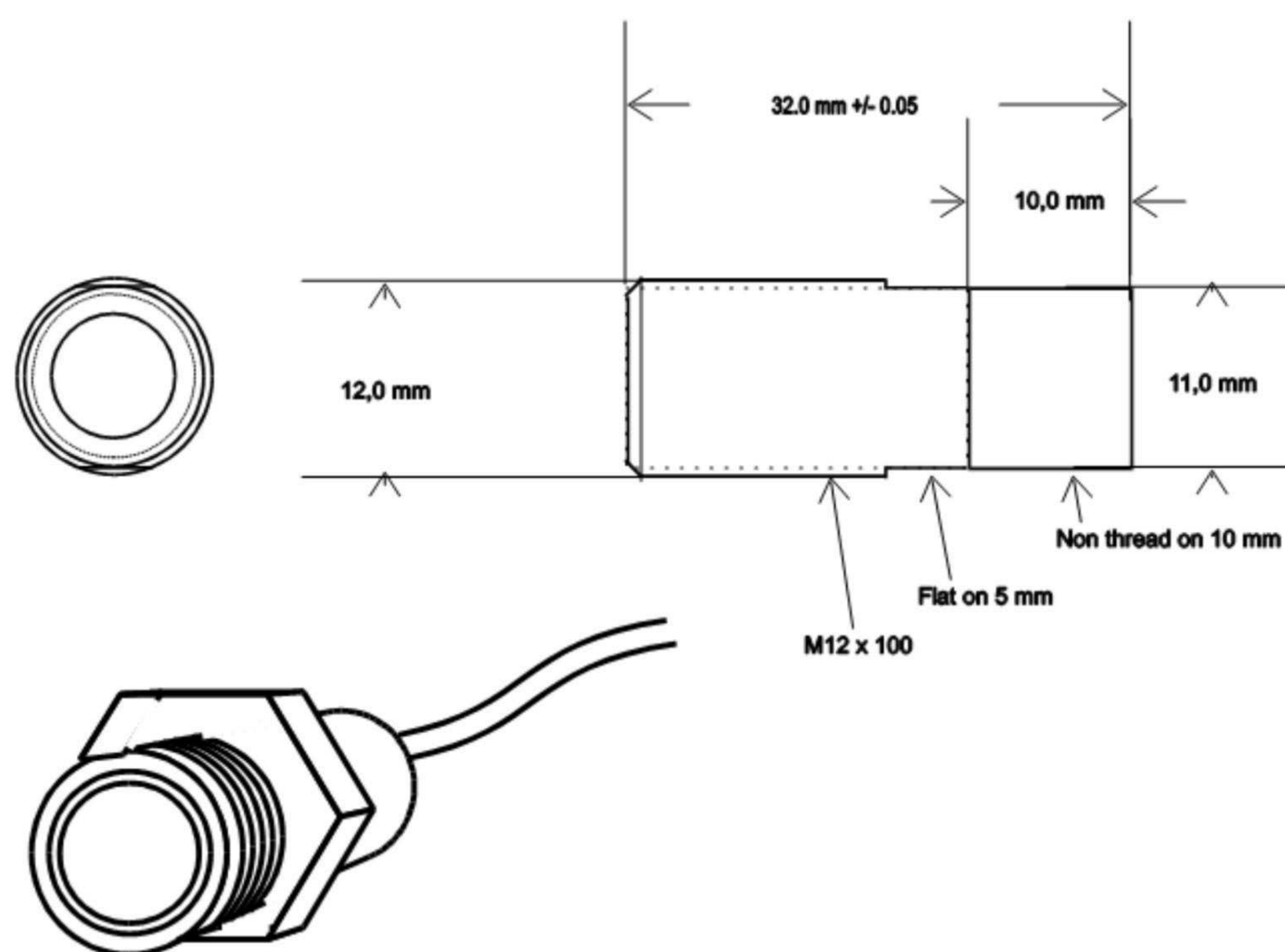
Housing
"V" type

Aluminium
M12x1x length 32 mm

Weight (without cable)

15 g

"V" type



**Avoid direct sunlight
or electrical lighting
on the sensor as it may
affect the signal**

Connection

