



IRN2 linear outputs

Linear Analog and Digital Infrared Temperature Sensor

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Range

From -20 to 100°C
To 300 to 1200°C

Accuracy Sensitivity

2% FS
Linear output. See calibration table. In mV/°C

Response time

50 ms

Supply voltage

3.3 to 30 V

Supply current

4 mA

Output Signal

Standard

Optionnal

Digital output *

0 to 5 V
0 to 3 or 0 to 10 V
Ascii data @ 50 Hz

Wave length

8 to 14 μm

Measurement distance

20 to 150 mm

Emissivity (factory tuning)

> 99 %

Emissivity/Distance tuning*

Gain factor 0.1 to 10

Operating temperature

-20 to +120 °C

Storage temperature

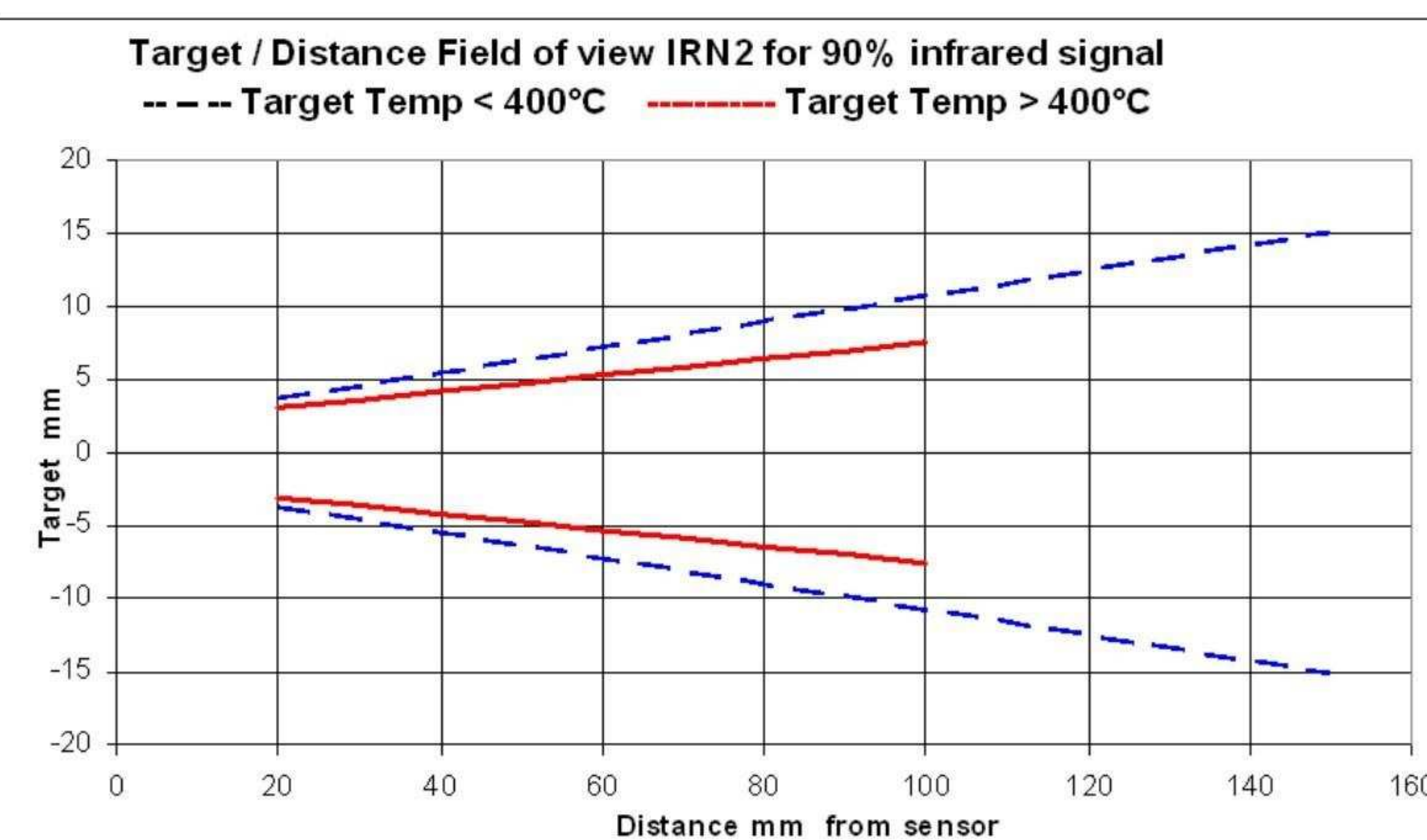
-25 to +125 °C

*Only with Texense USB-Connect

"T" type



"V" type



Calibration tables (Examples for 0-5V output)						
°C	100°C 35mV/°C	200°C 20mV/°C	300°C 12.5mV/°C	500°C 9mV/°C	1000°C 4mV/°C	1200°C 3.5mV/°C
-20	0.30	0.10	0.50	0.07	-	-
0	1.00	0.50	0.75	0.25	-	-
25	1.88	1.00	1.06	0.475	0.60	0.59
50	2.75	1.50	1.38	0.7	0.70	0.68
75	3.63	2.00	1.69	0.925	0.80	0.76
100	4.50	2.50	2.00	1.15	0.90	0.85
150		3.50	2.63	1.6	1.10	1.025
200		4.50	3.25	2.05	1.30	1.20
300			4.50	2.95	1.70	1.55
500				4.75	2.50	2.25
700					3.30	2.95
900					4.10	3.65
1000					4.50	4.00
1100						4.35
1200						4.70

Accuracy not guaranteed for grey cells

Ordering ref	ex : IRN2-T-300-5
IRN2 - Housing - Range - Output	
T (27x17x11)	150 3 (0-3V)
V (M12x32)	300 5 (0-5V)
	1000 10 (0-10V)
	...

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

Red
Black
Braid
White
Green*

Supply

0 V

Not connected

Analog signal

Digital signal

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texense
world pro by TEXYS



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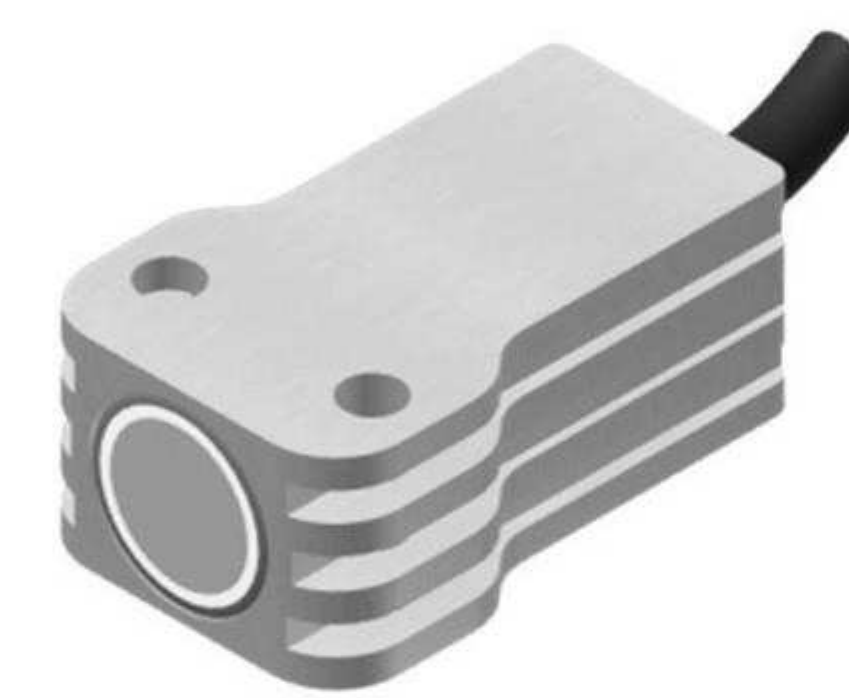
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Housing
"T" type
"V" type

Aluminium
27x17x11 mm
M12x1x length 32 mm

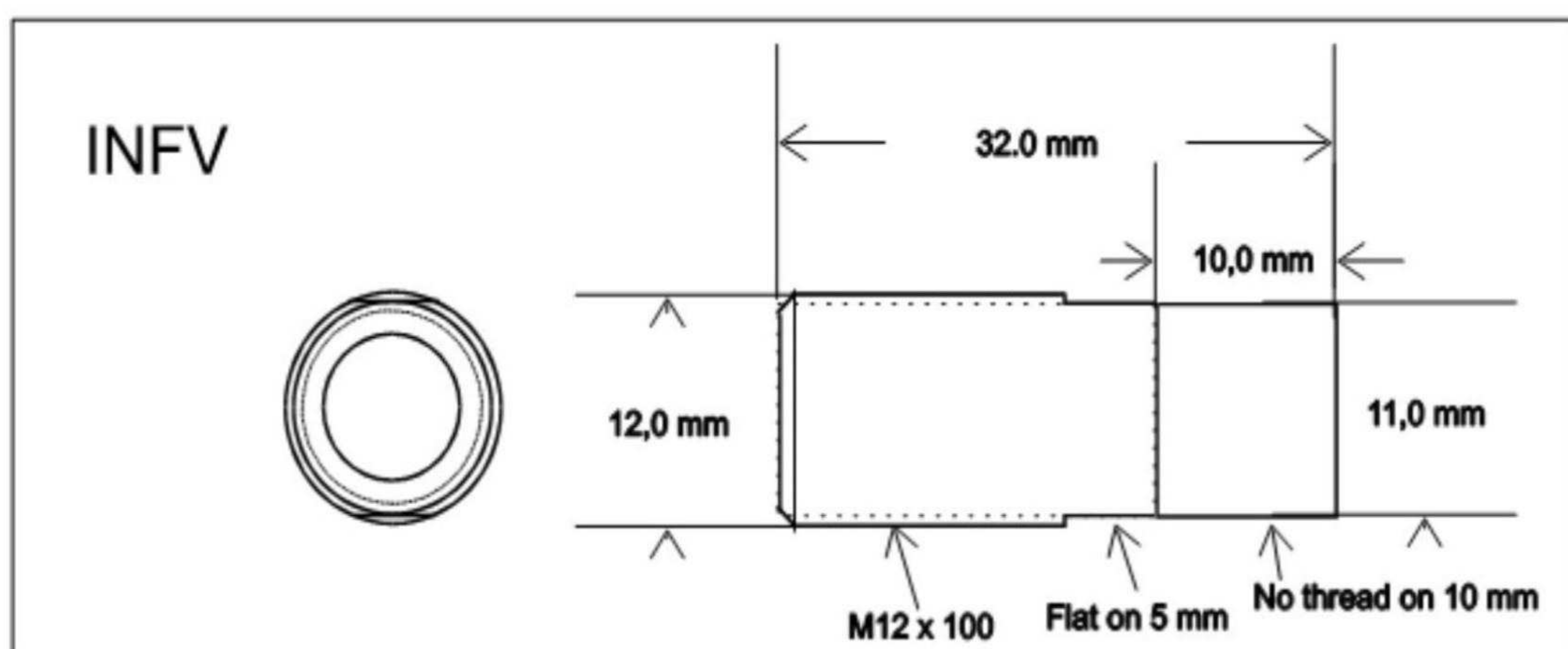
"T" type

"V" type

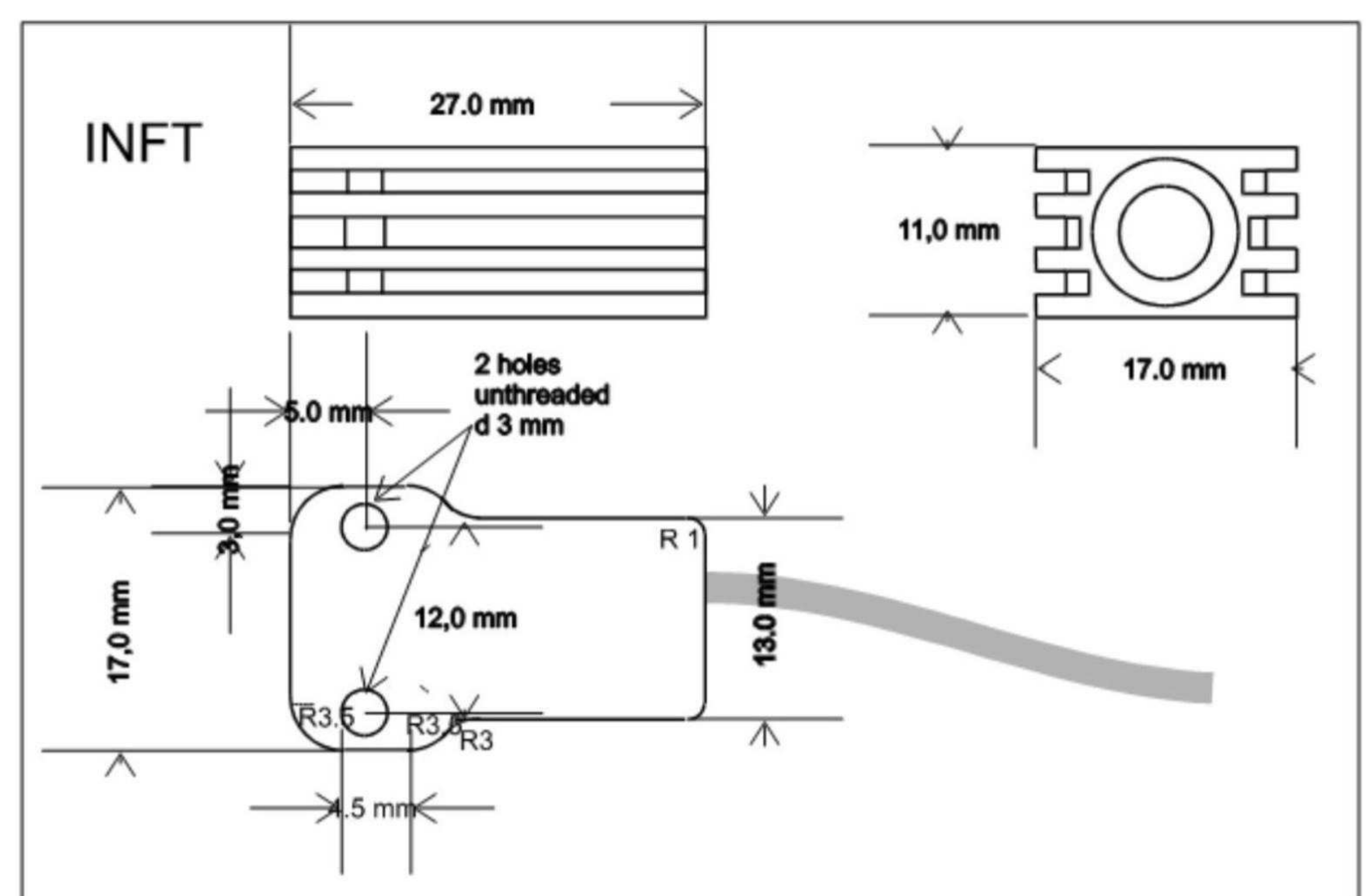
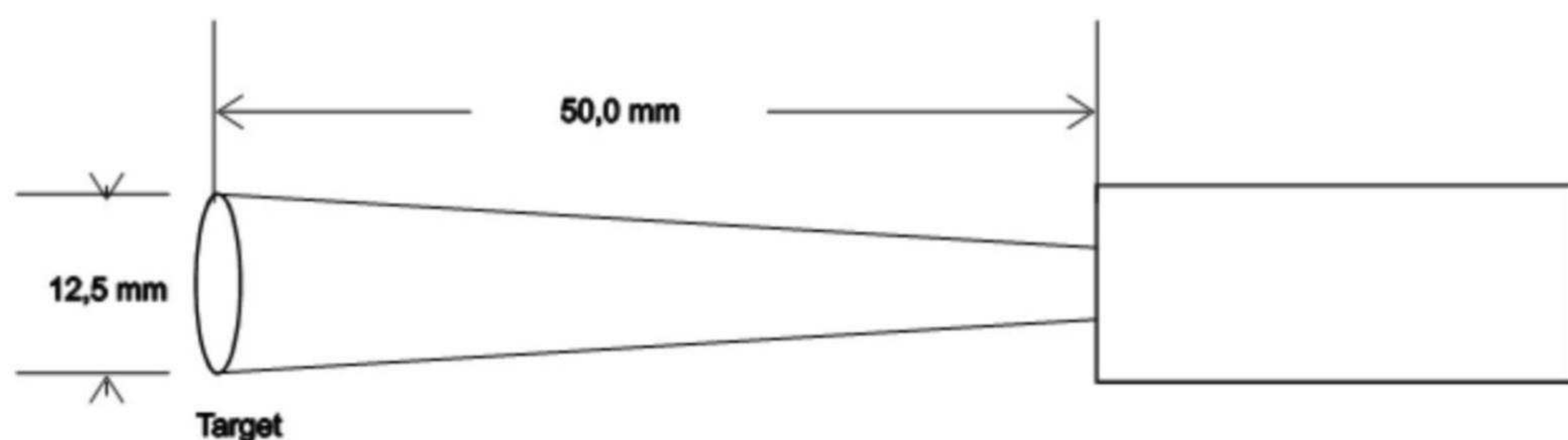


Weight (without cable)

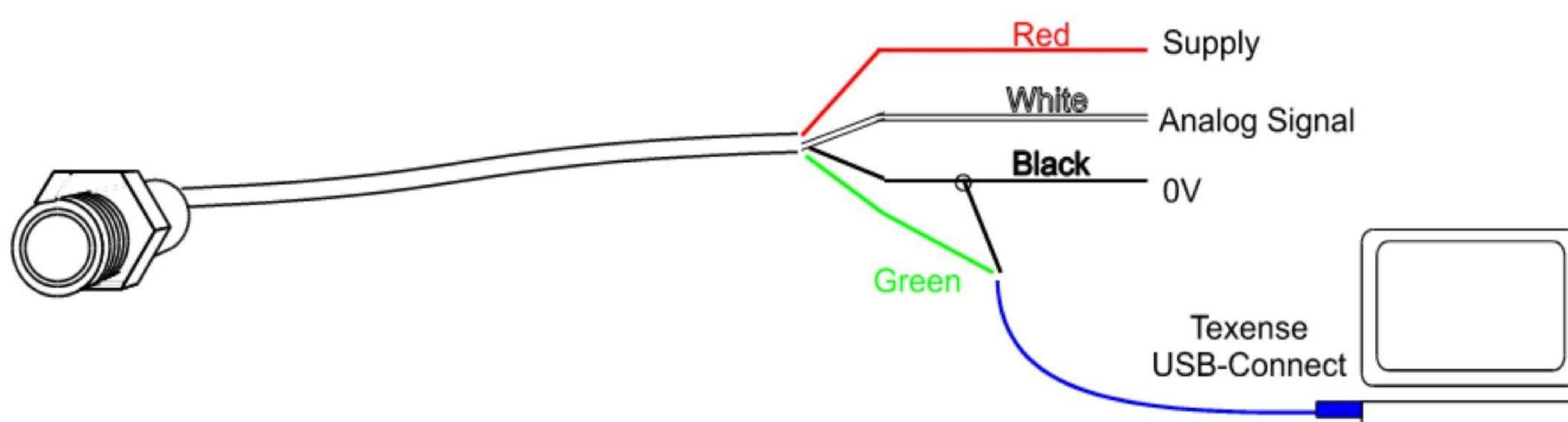
15 g



Mounting



Connection



In the interest of continuous product improvement, we reserve the right to alter without prior notice the specifications and features described in this document