

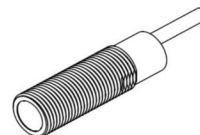
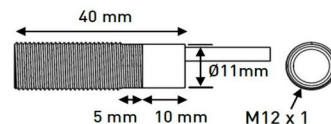


IRN3 Analog Infrared Track Temperature Sensor

Range	From -40 to 100°C
Accuracy	See accuracy table. %FS
Sensitivity	See calibration table. In mV/°C
Response time	50 ms
Supply voltage	5.5 to 16 V
Supply current	3 mA
Output Signal	0-3 or 0-5 V
Output impedance	47Ω
Output frequency	20 Hz
Sensitive element	Thermopile + protective window
Wave length	5.5 to 14 μm
Field of view (90% radiation)	20°
Calibrator	Fluke 4181
Emissivity (factory tuning)	95
Dimension	M12x 40 mm
Material	Aluminum
Weight (without cable)	15 g
Protection	IP65
Operating temperature	-40 to +85 °C
Absolute max operating temp	-40 to +125 °C
Storage temperature	-40 to +125 °C

°C	0-3V output (V) [= 0.9V + 21mV/°C]	0-5V output (V) [= 1.5V + 35mV/°C]
-40	0.060	0.100
-20	0.480	0.800
0	0.900	1.500
10	1.110	1.850
20	1.320	2.200
30	1.530	2.550
40	1.740	2.900
50	1.950	3.250
60	2.160	3.600
70	2.370	3.950
80	2.580	4.300
90	2.790	4.650
100	3.000	5.000

Accuracy table % FS			
Ambient (°C)	30	80	120 (not guaranteed)
target (°C)			
30	1,5	1,5	< 5
90	1,5	2	< 5



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

Red	Supply
Black	0 V
White	Analog signal
Green	Do not connected
Braid	-

Ordering ref: IRN3-100-20 - Output Voltage
5
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Ex: IRN3-100-20-3 → 100°C, 20° FOV, 0-3V output

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