



IRN3-R

Analog IR track temperature sensor (flush lens)

Range From -40 to 100°C
 Accuracy See accuracy table. %FS
 Sensitivity See calibration table. In mV/°C

Accuracy table % FS			
Ambient (°C)	30	80	120
Target (°C)			
30	1.5	1.5	< 5
90	1.5	2	< 5

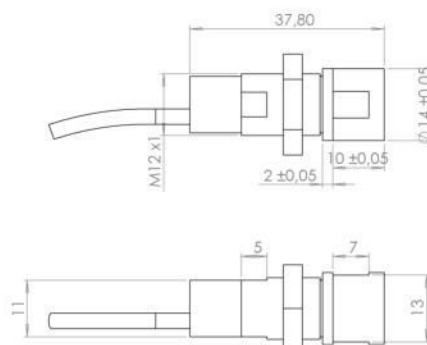
Supply voltage 5.5 to 16 V
 Sensitive current 3 mA
 Output signal 0-3 or 0-5 V
 Output impedance 47Ω
 Output frequency 20 Hz

°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

Sensitive element Thermopile + protective window
 Wave length 5.5 to 14μm
 Field of view (90% radiation) 20°
 Calibrator Fluke 4181
 Emissivity (factory tuning) 95

Dimensions 37.8 x 14 mm
 Material Aluminium
 Weight (without cable) 15 g
 Protection IP65

Absolute max operating temp -40 to +125°C
 Storage temperature -40 to +125°C



Red Supply
 Black 0V
 White Analog Signal
 Green Do not connect and isolate
 Braid

