

IR200 NON-CONTACT TEMPERATURE TRANSMITTER

IR200

- TEMPERATURE RANGE (-20 TO 500) °C
- FIXED EMISSIVITY
- (4 TO 20) mA LOOP POWERED
- NON-CONTACT TEMPERATURE MEASUREMENT
- FAST RESPONSE
- FOR NON-REFLECTIVE NON-METALS OR PAINTED METAL SURFACES

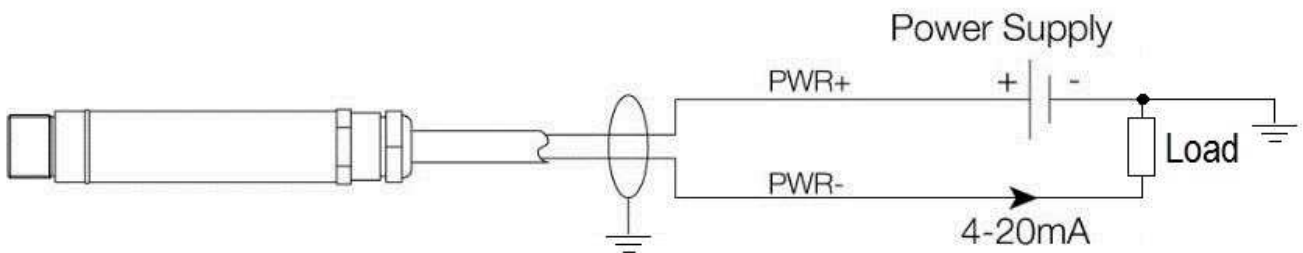


➤ INTRODUCTION

The IR200 is a general purpose infra-red (4 to 20) mA loop powered temperature transmitter housed in a robust stainless steel body. It is designed as an alternative to traditional probe assemblies for applications where physical contact with the subject (surface of the temperature source) is either not possible or not safe.

The IR200 sensor measures the average temperature of an area depending on the selection of the sensor optics, a choice of precision optics are available for large or small targets at short or long distances.

The two wire (4 to 20) mA output makes the IR200 compatible with standard control loop equipment and a straight forward alternative or replacement for traditional temperature monitoring assemblies in the field.



Connect the (4 to 20) mA loop to ground at one point only on the negative of the power supply.
Connect either the sensor housing or the cable shield termination to ground, but not both.

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> SPECIFICATIONS @ 20 °C

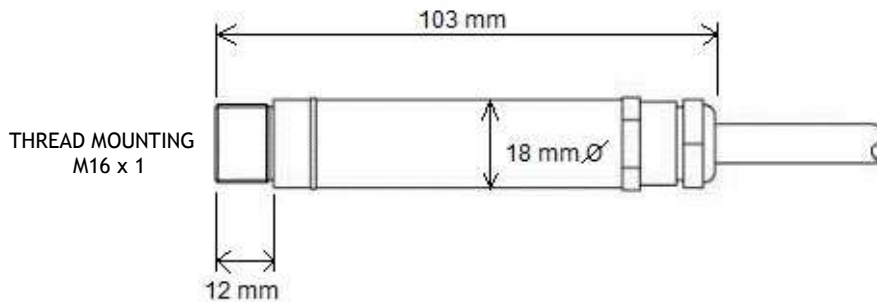
Measurement accuracy	± 1% of reading or ± 1 °C whichever is greater
Emissivity setting	Fixed at 0.95
Response time	240 ms (90 % response)
Supply voltage	24 Vdc (6 Vdc minimum, 28 Vdc maximum)
Loop Impedance	900 Ohm maximum loop load

> ENVIRONMENTAL

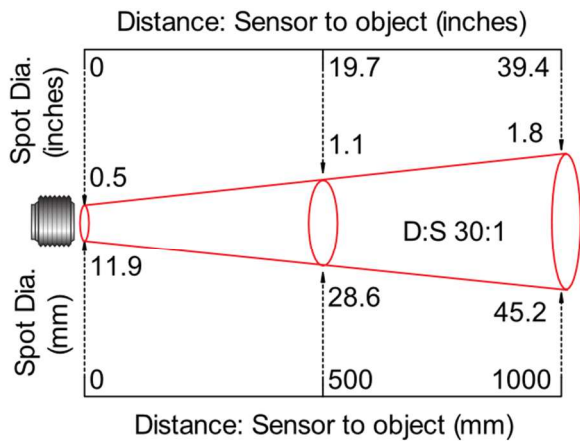
Rating	IP65
Ambient temperature	(0 To 70) °C
Relative Humidity	(0 to 95) % non condensing

> MECHANICAL

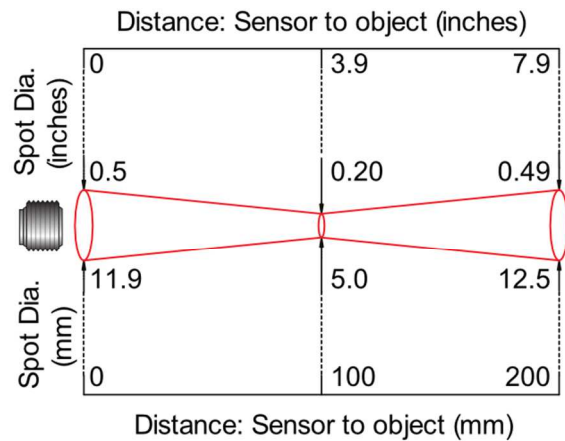
Construction	Stainless steel
Dimensions	18 mm diameter x 103 mm
Weight	95 g
Thread mounting	M16 x 1 mm pitch



Choose the correct optics for the application by selecting from the options below.

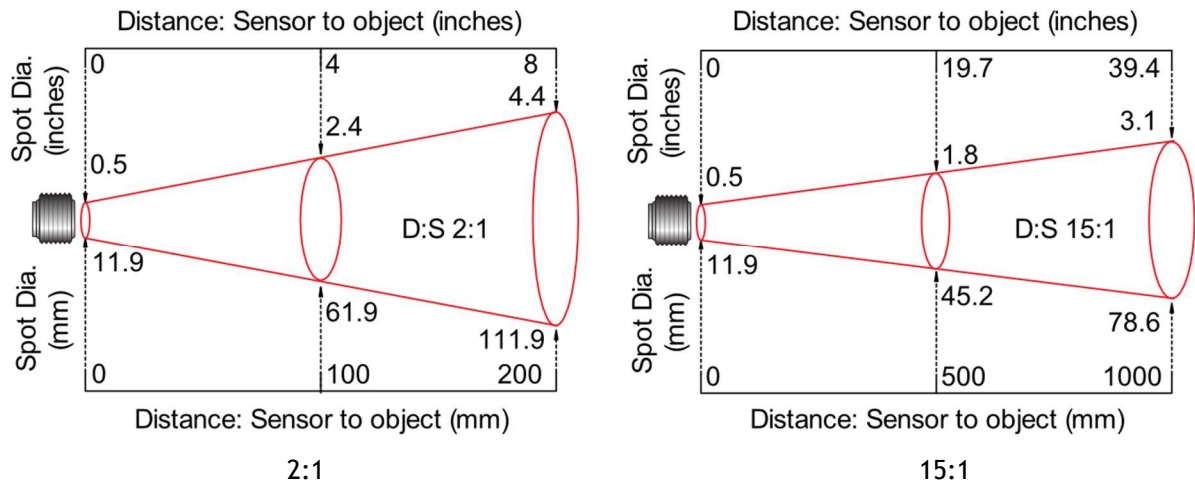


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CF Close Focus

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➤ PART NUMBERS

IR200/2/100	2:1 Divergent Optics -20/100 °C
IR200/15/100	15:1 Divergent Optics -20/100 °C
IR200/30/100	30:1 Divergent Optics -20/100 °C
IR200/CF/100	Close Focus Optics -20/100 °C

IR200/2/250	2:1 Divergent Optics 0/250 °C
IR200/15/250	15:1 Divergent Optics 0/250 °C
IR200/30/250	30:1 Divergent Optics 0/250 °C
IR200/CF/250	Close Focus Optics 0/250 °C

IR200/15/500	15:1 Divergent Optics 0/500 °C
IR200/30/500	30:1 Divergent Optics 0/500 °C
IR200/CF/500	Close Focus Optics 0/500 °C

IR200/CABLE	Cable / meter (1m standard)
IR / BKT	Fixed Mounting Bracket
IR/ADJBKT	Adjustable Mounting Bracket



FIXED BRACKET



ADJUSTABLE BRACKET