

Datasheet

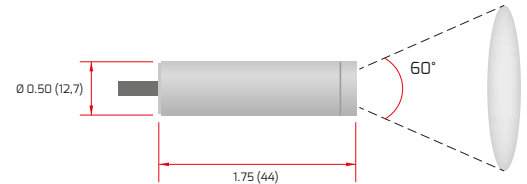
Autosmart IR



Product Overview

The AutoSmart IR features:

- Output 0-5V, 0-10V, 4-20mA (scalable)
- Non-contact
- Repeatability error 0,1% full scale
- Interchangeability $\pm 1,5\%$ full scale
- Resolution approx. 0,1°C (0.2°F)
- Small size sensor



Technical Data

Sensor Range	-35 to 250°C (-31 to 482°F)
Sensor Ambient Temperature Range	-18 to 100°C (0 to 212°F)
Transmitter Ambient Temperature Range	0 to 70°C (32 to 158°F)
Storage Temperature Range	-10 to 70°C (14 to 158°F)
Field of View	60° (1:1) approximately
Minimum Spot Size	8 mm (0.3")
Spectral Response	5.0 to 20µm
Update Time	Approximately 250 msec.
First Reading Upon Power Up	Approximately 2 seconds

Connector cable	3 m (9.8 ft) 22AWG*4C + F + Jacket black PUR cable OD=5,0 mm -40°C~+105°C
Sensor cable	0,9 m (3 ft) Thermocouple extension grade, PVC jacket, unshielded
Sensor Dimensions	44 x 12,7 mm Dia. (1.75" x 0.5")
Weight	Sensor: 40g (1.4oz.) with cable. Transmitter: Approximately 50g (1.70oz.)
Housing	Sensor: High strength ABS, hermetically sealed, exceeds NEMA, 4,4x; IP65,67. Two locknuts supplied. Transmitter: Heavy Duty SS, NEMA, IP54
Emissivity Setting	0.90
Power	12 or 24VDC ($\pm 10\%$). Shuts off when voltage is functionally low
Power Consumption	$\pm 10\text{mA}$ (without output signal device)

Ordering Information

AutoSmart IR - - -

Power:

12 = 12VDC

24 = 24VDC

Output:

005 = 0-5V

010 = 0-10V

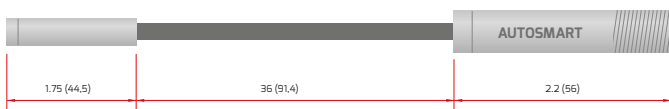
420 = 4-20mA

Temperature range:

70 = -35 to 70°C (-31 to 158°F)

100 = 0 to 100°C (32 to 212°F)

250 = 0 to 250°C (32 to 482°F)



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