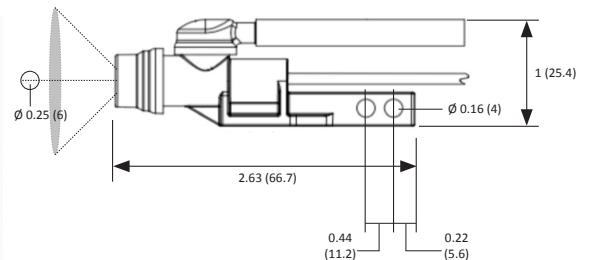


## AUTOSMART MA

### Product Overview

The AutoSmart MA features:

- Output 0-5V, 0-10V, 4-20mA
- Non-contact
- Repeatability error 0.1% full scale
- Interchangeability  $\pm 1.5\%$  full scale
- Resolution approx. 0.1°C
- Small size sensor



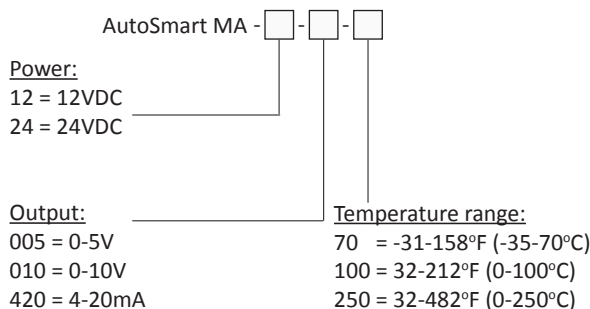
Dimensions are in inches (mm)  
\* Excluding air tube

### Technical Data

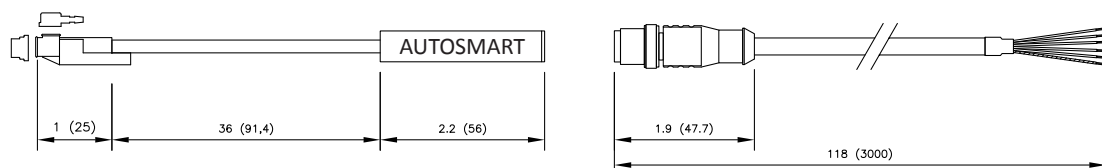
Sensing Range	-31 to 932°F (-35 to 500°C)
Sensor Ambient Temperature Range	-40 to 185°F (-40 to 80°C) with air off -40 to 347°F (-40 to 175°C) with air on
Transmitter Ambient Temperature Range	32 to 158°F (0 to 70°C)
Storage Temperature Range	14 to 158°F (-10 to 70°C)
Field of View	1:2 (110°) approximately
Minimum Spot Size	0.1" (3mm)
Spectral Response	5.0 to 20 $\mu$ m
Update Time	Approximately 250 msec.
First Reading Upon Power Up	Approximately 2 seconds
Cable	1. 9.8ft (3M) 22AWB*4C + F + Jacket black PUR cable OD=5.0mm -40°C~+105°C 2. 3ft (0,9M) Unshielded, duplex insulated, type K, 24AWG, PFA jacket rated to 500°F (260°C)

Sensor Dimensions	0.25" (6.3mm) Dia. x 1.0" (25.4mm)
Weight	Sensor: 1oz (30g) Transmitter: Approximately 1.702oz. (50g)
Housing	Sensor: Stainless steel, hermetically sealed, exceeds NEMA 4X, IP67. Transmitter: Heavy Duty SS, NEMA, IP54. Air Purge: Makrolon-9415
Emissivity Setting	0.90
Power	12 or 24VDC ( $\pm 10\%$ ). Shuts off when voltage is functionally low
Power Consumption	$\pm 10$ mA (without output signal device)
Loop Impedance	(4-20mA models) >500 $\Omega$
Including Air Purge	Efficient in design, the Air Purge requires as little as 3.5 SCFH (1.7L/min) of air to protect a micro IRT/c. In addition to keeping a micro IRT/c clean, the airflow through the air purge can cool a micro IRT/c up to 347°F (175°C) with only 35 SCFH (17L/min) at 5 psig (0.33 bar). For more information see Datasheet DS-250-1-EN

### Ordering Information



### Dimensions



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Specifications subject to change without notice

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DS-913-EN-V1