

EAIR-1816 SERIES

EAIR-1816-510500 (DS 5:1 0~500 DegC output 4-20mA)

Product Features

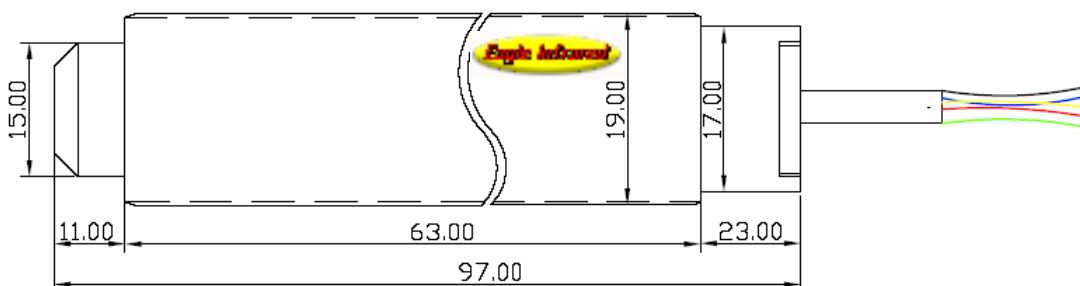
- Digital/Analog signal output
- Repeatability: $< \pm 1^{\circ}\text{C}$
- Spectrum response: 8-14 μm
- Accuracy: greater of $\pm 2^{\circ}\text{C}$ or 2% of reading
- Resolution: 0.1 $^{\circ}\text{C}$
- Response Time: $\leq 500\text{ms}$
- Factory calibrated with temperature compensation within full scale
- Measurable object distance: 0~10meters
- Wide operating temperature range
- Easy to install and maintain with low cost



Specifications

Model	EAIR-1816-510500
Resolution	Typical 0.1 $^{\circ}\text{C}$
Precision	greater of $\pm 2^{\circ}\text{C}$ or 2% of reading
Repeatability	$\pm 1^{\circ}\text{C}$ of full temperature range
Spectrum Response	8 ~ 14 μm
Distance: Spot Ratio	5:1
Operating Temperature	0 ~ 50 $^{\circ}\text{C}$
Temperature Range	0-500 degC
Storage Temperature	-20 ~ 85 $^{\circ}\text{C}$
Response Time	250~500ms
Emissivity	Default 0.95,(0.01~0.99 adjustable on request)
Object Distance	0~10m
Dimension	$\phi 19\text{mm}^{(2)}$, L:97mm
Power Supply	18~+30VDC
Analog Output	Standard: 4~20mA;

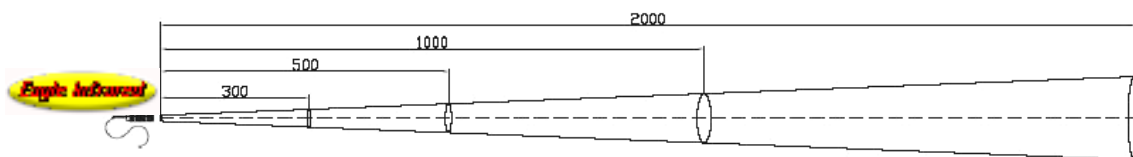
External Dimension



Standard Cable Wiring

Cable Color	Digital Output	Analog Output
Red	Power Supply +	Power Supply +
Black	Power Supply -	Power Supply -
YELLOW	Signal Input	Signal +
Green	Signal Output	Signal -
Bare cable	Shield Ground	Shield Ground

Optical Chart



D-Distance: direct distance between the sensor and the object
S-Spot: diameter of the area on the object that the sensor could measure

Sensor Installation

If the target is smaller than the spot size, the output data is the average value of the target and background covered by the sensor. Therefore, before installment, the user should make sure the target is greater than or at least equal to the spot size so as to adjust the position of the sensor

