SI-small Series Infrared Thermometer Manual

1. Product Description

Thank you for choosing **SI-small** series of online infrared thermometers (temperature sensors).The infrared thermometer can measure the infrared radiation intensity emitted by the target without touching the target

The surface temperature of the object. Non-contact temperature measurement is the biggest advantage of infrared thermometer, so that users can easily measure difficult to approach or move the target.

SI-small series of infrared thermometers are integrated infrared thermometers, sensors, optical systems and electronic circuits are integrated in the stainless steel shell; easy to install, the standard thread on the stainless steel shell can be quickly connected to the installation site; At the same time, there are various types of selected parts (various instruments, large screen, paperless recorder blowing protective cover, laser sight, adjustable mounting support, etc.) to meet the requirements of various working conditions.

2. Physical description

A. Basic performance

Protection level   IP65(NEMA-4)
Ambient temperature   0~60°C
Storage temperature   -20~80°C
Relative humidity   10~95%(non-exposed)
Timber Material   Stainless Steel
Cable length   2.0 m (Standard)
Dimmensions   Ø 18 x 68 mm length
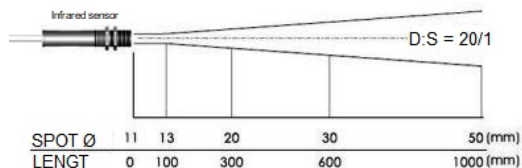Thread   M18×1.0

B. Electrical parameters

Working Power   24V
Output signal   **4~20 mA (linear)**

C. Measurement parameters

Spectral range   8~14µm
Temperature range   See below

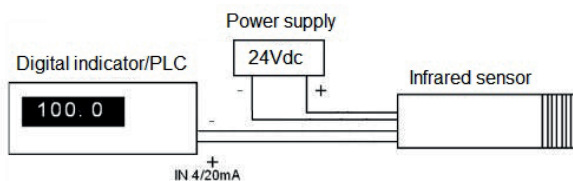| SI10LT-0	SI15LT-0	SI20LT-0	SI25LT-0
0-100°C	0-150°C	0-200°C	0-250°C
SI30LT-0	SI50LT-0	SI60LT-0	SI80LT-0
0-300°C	0-500°C	0-600°C	0-800°C

D. Optical resolutión /Spot size

Optical resolution 20:1
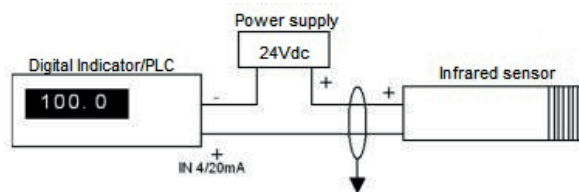Response time 100 ms (95%)
Accuracy of temperature measurement

The ± of the measured value is 1% or ±1℃, and the large value repetition accuracy is taken The measured value ±0.5% or±1℃, taking the large emissivity 0.95 Fixed

E. Wiring definitions

4 wires	Wire colours	Function
Output signal 4~20 mA	Red	24V DC power supply +
	Black	24V DC power supply -
	Blue	Signal output positive
	Orange	Negative signal output
	Transparency	Shield line

2 wires	Wire colours	Function
Output signal 4~20 mA	Red	24V +
	Blue	24V mA V-

F. External dimensions

src especialistas en regulación y control de temperatura

Avenida del Cantábrico, 11. P6.   01013 Vitoria-Gasteiz (Spain)
tel. (+34)945 259455 e-mail: consultas@srcsl.com www.srcsl.com