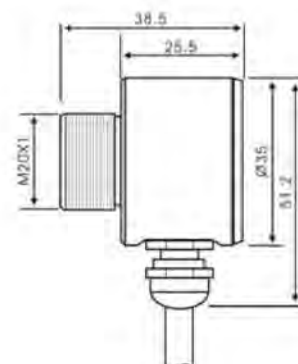
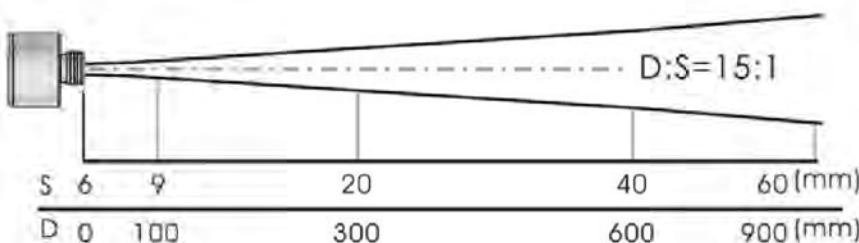


S20 Infrared Sensor

- Temperature Range : 0° ~ 500°C
- Optical Resolution D : S = 15 : 1
- Accuracy : +/- 1% or +/- 1.5°C
- Response Time : 300ms
- Signal Output : 4 ~ 20mA (two-wire)
- Power Supply : 24VDC



Model	S20
Temperature Range	0 ~ 500°C
Optical Resolution	D : S = 15 : 1
Signal Output	4 ~ 20mA (two-wire)
Accuracy	+/- 1% or +/- 1.5°C
Repeatability	+/- 0.5% or +/- 1°C
Spectral Range	8 ~ 14 um
Temperature Resolution	0.1°C
Response Time	500 ms (95%)
Emissivity	Fixed at 0.95
Max Loop Impedance	500Ω
Power Supply	24 VDC
Environmental Rating	IP65 (NEMA - 4)
Ambient Temperature	0 ~ 60°C
Relative Humidity	10 ~ 95%
Cable Length	1.8m (standard)
Dimensions	38.5mm X Φ35mm
Weight	200g



S20

Infrared Sensor



Operator manual

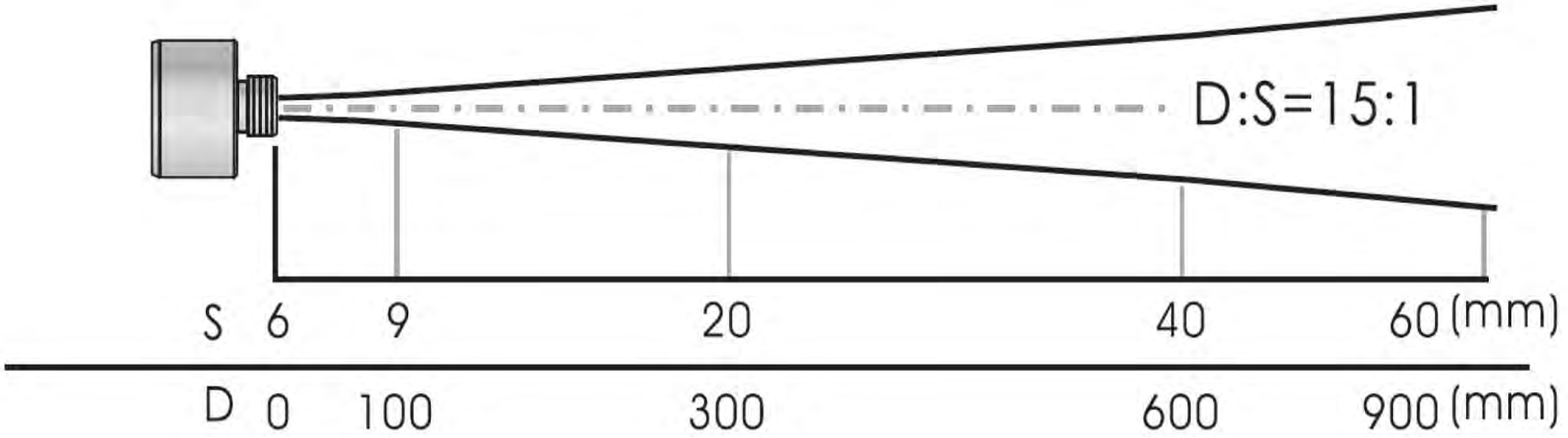
Introduction

Thank you for choosing the S20 infrared sensor. Infrared thermometers measure the object surface temperature without touching it. They calculate the surface temperature on the basis of the emitted infrared radiation from an object. The most important feature of infrared thermometers is that they enable the user to measure objects contactless. Consequently, these products help to measure the temperature of inaccessible or moving objects without difficulties.

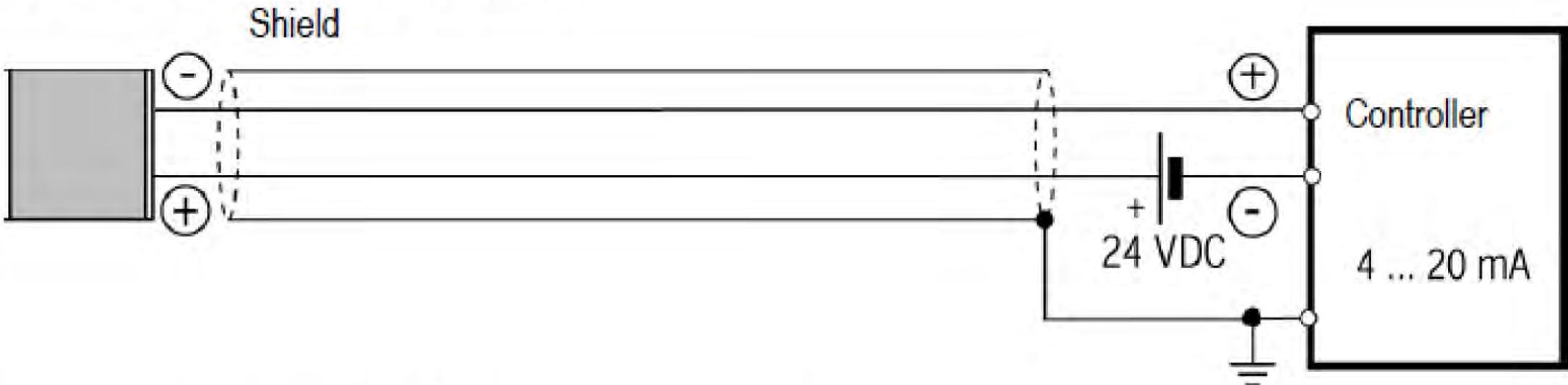
- **Temperature Range : 0°~ 500°C**
- **Optical Resolution D : S = 15 : 1**
- **Accuracy : +/- 1% or +/- 1.5°C**
- **Response Time : 300ms**
- **Signal Output : 4 ~ 20mA (two-wire)**
- **Power Supply : 24VDC**

Optical Charts

The following optical charts show the diameter of the measuring spot in dependence on the distance between measuring object and sensing head. The spot size refers to 90 % of the radiation energy.



Connection Diagrams



It connecting the 4 to 20 mA current loop.

4-20mA	Current loop (+)	Red
	Current loop (-)	Black
	Ground (□)	Bare

Measurement Specifications

Temperature Range	0 ~ 500°C
Optical Resolution	D : S = 15 : 1
Signal Output	4~ 20 mA
Accuracy	+/- 1% or +/- 1.5°C
Repeatability	+/- 0.5% or +/- 1°C
Spectral Range	8 ~ 14 um
Temperature Resolution	0.1°C
Response Time	500 ms (95%)
Emissivity	Fixed at 0.95
Power Supply	24 VDC @ 20mA
Environmental Rating	IP65 (NEMA - 4)
Ambient Temperature	0 ~ 60°C
Relative Humidity	10 ~ 95%
Cable Length	1.8m (standard)
Dimensions	Φ38.5mm X 35mm
Weight	200g