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INFRARED SENSORS



CATALOGUE

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Features & Ordering Code

Features

- ※ Small housing can be easily installed in all environments.
- ※ High accurate in measuring temperature.
- ※ 4, 3, 2 cables can be free transfer and facility in using.
- ※ Strong anti-interference can work in most of electromagnetics environments.
- ※ With output wiring protect function. The sensor will not be damaged in case of wrong wire connection.

Ordering Code

IS-DT □ □ ——— Housing: A: M18 ST304 T: Aluminium shell
 ——— Temperature: 203: -20 to 300 5: 0 to 500 8: 0-800
 ——— IS-DT Series Compact Type Infrared Sensors

Example: IS-DT8A means 800 degrees, M18 housing.

IS-DT-A



IS-DT-T

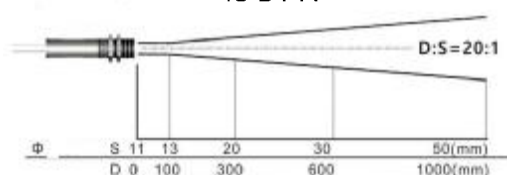
Technical Data & Sizes

Technical Data

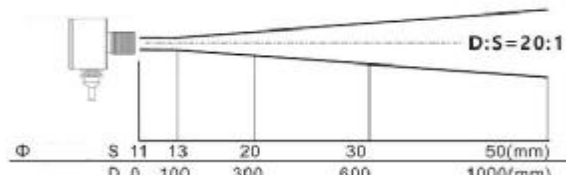
Power Supply	12-24VDC	Reactive Time	300ms (95% reactive)
Output	4-20mA	Emissivity	Fixed 0.95 or 1.0 (Default: 1.0)
Output Impedance	50 Ohm	Resolution	1 degree
Wiring	4, 3, 2 cables free transfer	IP Rate	IP 64
Temperature Range	-20 to 800	Work Temperature	0-60 degrees
D:S	20:1	Storage Temperature	-20 to 80 degrees
Wave Length	8-14um	Housing:	M18 st 304 or 44mm aluminium
Measure Accuracy	1.5% or 2.5 degrees	Cable Length	Standard 2m cable, or other special
Repeat Accuracy	1 degree	Weight	M18: 128g Aluminium: 115g

Optics

IS-DT-A



IS-DT-T

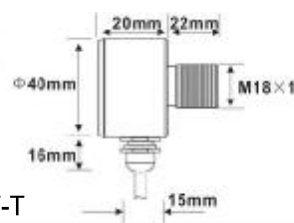


Size

IS-DT-A



IS-DT-T

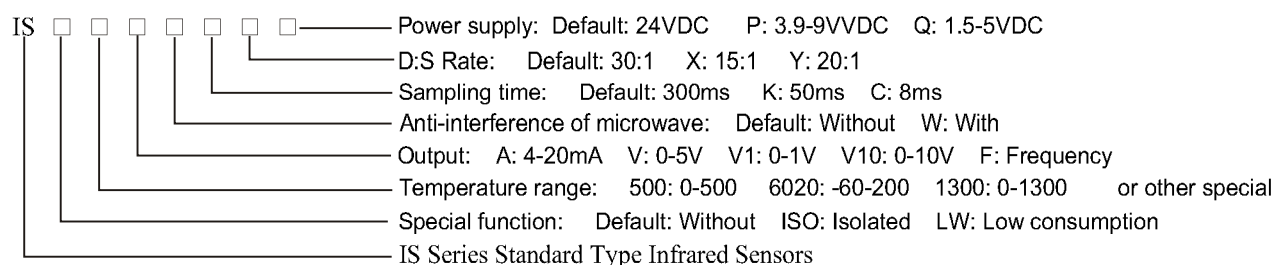


Features & Ordering Code

Features

- ※ Small housing can be easily installed in all environments.
- ※ High accurate in measuring temperature.
- ※ 4, 3, 2 cables can be free transfer and facility in using.
- ※ Strong anti-interference can work in most of electromagnetics environments.
- ※ With output wiring protect function. The sensor will not damaged in case wrong wire connection.

Ordering Code



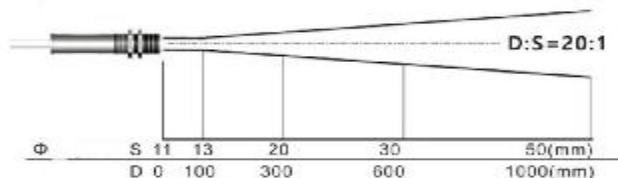
Example: IS-500ACX means temperature 0-500 degrees, 4-20mA output, 8ms sampling speed, 15:1 rate.

Technical Data & Sizes

Technical Data

Power Supply	24VDC, 3.5-9VDC or 1.9-5VDC	Reactive Time	300ms, 50ms, 8ms
Output	4-20mA, 0-5V, 0-1V, 0-10V, Frequency	Emissivity	Fixed 0.95 or 1.0 (Default: 1.0)
Output Impedance	50 Ohm	Resolution	1 degree
Wiring	4, 3, 2 cables free transfer	IP Rate	IP 65
Temperature Range	-60 to 1300 degrees	Work Temperature	0-60 degrees
D:S	15:1, 20:1, 30:1	Storage Temperature	-20 to 80 degrees
Wave Length	8-14um	Housing:	M18x130mm st 304
Measure Accuracy	1% or 1 degrees	Cable Length	Standard 2m cable, or other special
Repeat Accuracy	1 degree	Weight	Abt 140g

Optics



Size



Features & Ordering Code

Features

- ※ Small housing can be easily installed in all environments.
- ※ High accurate in measuring temperature.
- ※ 10 Ohm output impedance can be applied with most of the devices.
- ※ Strong anti-interference can work in most of electromagnetics environments.
- ※ With output wiring protect function. The sensor will not be damaged in case of wrong wire connection.



Ordering Code

IS-TC □ ——— Temperature: 100: 0-100 200: 0-200 300: 0-300 400: 0-400 500: 0-500
 ——— IS-TC Series Thermocouple Output Infrared Sensors

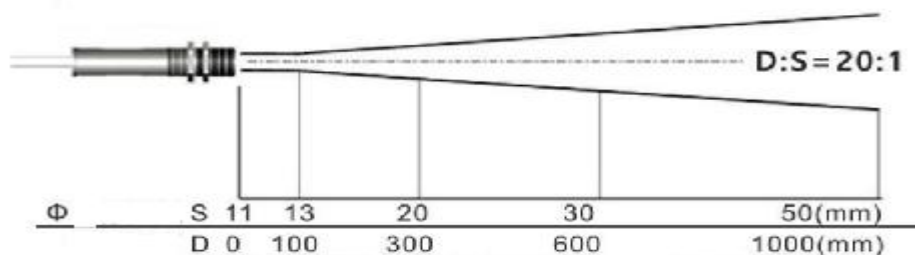
Example: IS-TC500 means 0-500 degrees thermocouple K type output.

Technical Data & Sizes

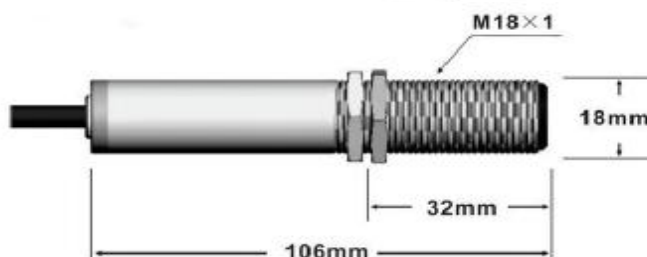
Technical Data

Power Supply	6-24VDC, 7mA	Reactive Time	300ms (95% reactive)
Output	4-20mA	Emissivity	Fixed 0.95 or 1.0 (Default: 1.0)
Output Impedance	10 Ohm, Loaded: 50KOhm	Resolution	1 degree
Wiring	Protection for wrong wiring	IP Rate	IP 64
Temperature Range	0-500	Work Temperature	0-60 degrees
D:S	20:1	Storage Temperature	-20 to 80 degrees
Wave Length	8-14um	Housing:	M18x106mm st 304
Measure Accuracy	2%F.S	Cable Length	Standard 2m cable, or other special
Repeat Accuracy	1 degree	Weight	130g

Optics



Size



Features & Ordering Code

Features

- ※ Small housing can be easily installed in all environments.
- ※ High accurate in measuring temperature.
- ※ Can be applied in measuring high temperature up to 2400 degrees.
- ※ Strong anti-interference can work in most of electromagnetics environments.
- ※ With output wiring protect function. The sensor will not damaged in case wrong wire connection.

Ordering Code

IS- ☐ AH ——— AH: High temperature code
 ——— Temperature: 1200: 400-1200 1400: 600-1400 1700: 700-1700 2000: 800-2000 2400: 1000-2400
 ——— IS-AH Series High Temperature Infrared Sensors

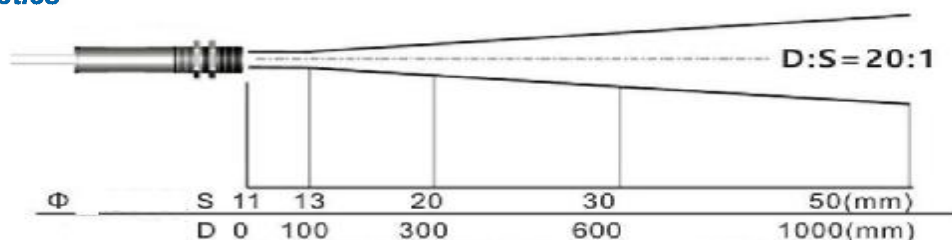
Example: IS-DT8A means 800 degrees, M18 housing.

Technical Data & Sizes

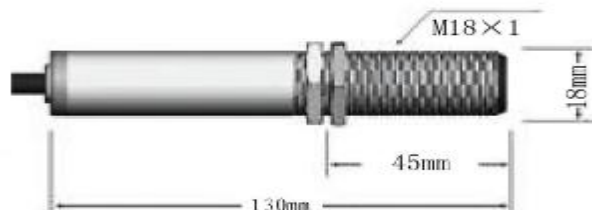
Technical Data

Power Supply	24VDC 2 cables	Reactive Time	30ms (95% reactive)
Output	4-20mA	Emissivity	Fixed 0.95 or 1.0 (Default: 1.0)
Output Impedance	50 Ohm	Resolution	1 degree
Wiring	2 cables	IP Rate	IP 65
Temperature Range	400 to 2400 degrees	Work Temperature	0-60 degrees
D:S	50:1	Storage Temperature	-20 to 80 degrees
Wave Length	1.6um	Housing:	M18 st 304
Measure Accuracy	1% or 1 degrees	Cable Length	Standard 2m cable, or other special
Repeat Accuracy	1 degree	Weight	140g

Optics



Size



CE

Features & Ordering Code

Features

- ※ Small housing can be easily installed in all enviroments.
- ※ High accurate in measuring temperature.
- ※ Strong anti-interference can work in most of electromagnetics enviroments.
- ※ With output wiring protect function. The sensor will not be damaged in case wrong wire connection.

Ordering Code

IS-MITC ☐ ☐ ———— Output: A: 4-20mA

————— Temperature: 6020: -60 to 200 4030: -40 to 300 2050: -20 to 500

————— 500: 0-500 800: 0-800 1200: 0-1200

————— IS-MITC Series Infrared Sensors

Example: IS-MITC4030A means -40 to 300 degrees, 4-20mA ouptut.

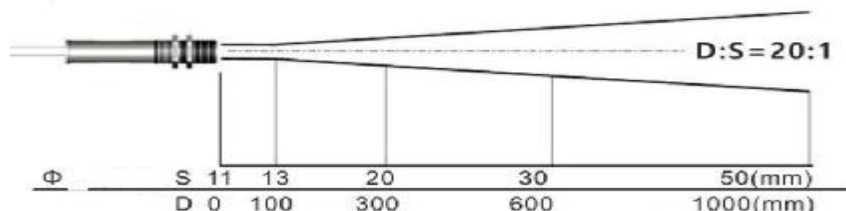


Technical Data & Sizes

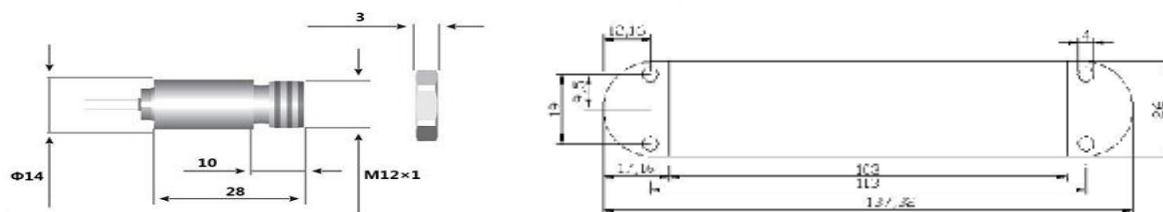
Technical Data

Power Supply	24VDC	Reactive Time	75ms (95% reactive)
Output	4-20mA	Emissivity	Fixed 0.95
Output Impedance	50 Ohm	Resolution	1 degree
Wiring	3 cables	IP Rate	IP 65
Temperature Range	-60 to 1200	Work Temperature	Sensor: 0-120 degrees, box: 0-60 degrees
D:S	20:1	Storage Temperature	-20 to 80 degrees
Wave Length	8-14um	Housing:	Sensor: M12, Box: L130xW26XH26mm
Measure Accuracy	1.5% or 2.5 degrees	Cable Length	Sensor to box: 1.5 or 3m. Box behind: 2,3 or 6m
Repeat Accuracy	0.1 degree	Weight	50g

Optics



Size



Features & Ordering Code

Features

- ※ LCD display temperature, with 2 setting buttons, single color measuring temperature.
- ※ Focus range: 0.5 to 10m. Temperature range: 400-1600, 600-2000, 1000-3000
- ※ At most it can focus in a 2mm target.
- ※ Measuring value or MAX/MIN value display for option.
- ※ Free set MAX/MIN value remain time 0.01 to 199.9 seconds.
- ※ With temperature compensation function.
- ※ With perusal aiming and visual output function.
- ※ With 4-20mA remote transmission.

Ordering Code

IS-MS ☐ AD ——— A: 4-20mA output D: With display
 ——— Temperature: 1600: 40-1600 2000: 600-2000 3000: 1000-3000
 ——— IS-MS Series Perusal Infrared Sensors

Example: IS-MS1600AD means 400-1600 degrees, 4-20mA output, with display.

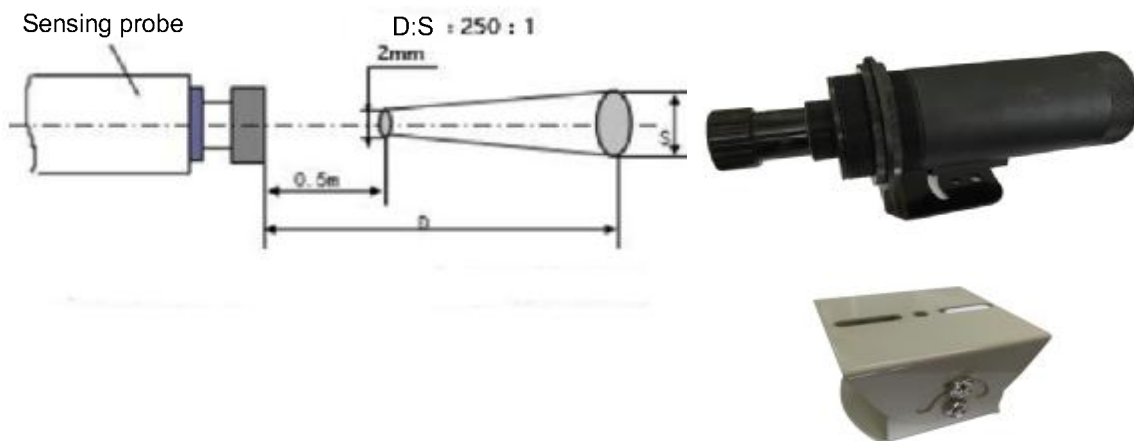


Technical Data & Sizes

Technical Data

Power Supply	18-24VDC	Reactive Time	5ms
Output	4-20mA	Emissivity	0.100-1.000
Output Impedance	75 Ohm	Resolution	1 degree
Display	TFTLCD	IP Rate	IP 65
Temperature Range	-20 to 800	Work Temperature	0-60 degrees
D:S	250:1	Storage Temperature	-20 to 80 degrees
Wave Length	1600: 1.6um, 2000: 1.0um	Weight	1kg
Measure Accuracy	1.5% or 2.5 degrees		
Repeat Accuracy	1 degree		

Optics



Features & Ordering Code

Features

- ※ LCD display temperature, with 2 setting buttons, single color measuring temperature.
- ※ Focus range: 50 to 100mm. Temperature range: 400-1600, 600-2000, 1000-3000, 1200-3600
- ※ At most it can focus in a 0.3mm target.
- ※ Measuring value or MAX/MIN value display for option.
- ※ Free set MAX/MIN value remain time 0.01 to 199.9 seconds.
- ※ With temperature compensation function.
- ※ With perusal aiming and visual output function.
- ※ With 4-20mA remote transmission.



Ordering Code

IS-SP ☐ AD ——— A: 4-20mA output D: With display
 ——— Temperature: 1600: 40-1600 2000: 600-2000 3000: 1000-3000
 ——— IS-SP Series Small Target Perusal Infrared Sensors

Example: IS-SP1600AD means 400-1600 degrees, 4-20mA output, with display.

Technical Data & Sizes

Technical Data

Power Supply	18-24VDC	Reactive Time	5ms
Output	4-20mA	Emissivity	0.100-1.000
Output Impedance	75 Ohm	Resolution	1 degree
Display	TFTLCD	IP Rate	IP 65
Temperature Range	-20 to 800	Work Temperature	0-60 degrees
D:S	250:1	Storage Temperature	-20 to 80 degrees
Wave Length	1600: 1.6um, 2000: 1.0um	Weight	1kg
Measure Accuracy	1.5% or 2.5 degrees		
Repeat Accuracy	1 degree		

Optics

Sensing probe

