(Economy type)
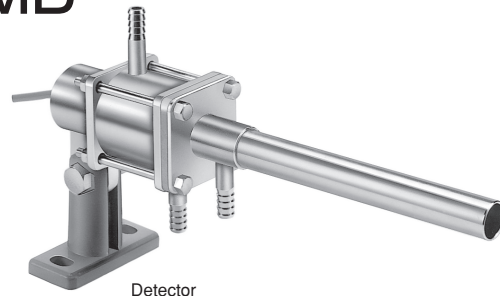
Water-cooling Type HMD
/800℃ or more

PR-1T1

Detectable temperature 800℃ or more

This sensor is an economy type, water-cooling type HMD which can detect heated materials with 800℃ .
● Small size and economy price.
● Adjuster is provided in accordance with temperature of heated materials.
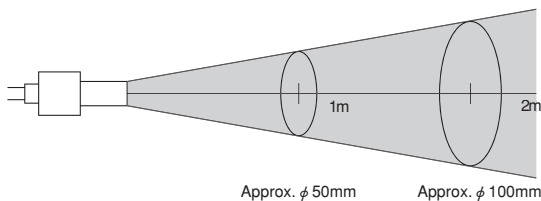● It is easy to replace element only.

Detector

Amplifier
(Appearance is a little different. see external dimension)

PHOTO MASTER

HOKUYO AUTOMATIC CO.,LTD.

TYPE PR-1TL-11
VOLT AC 100／200V

■ Specifications

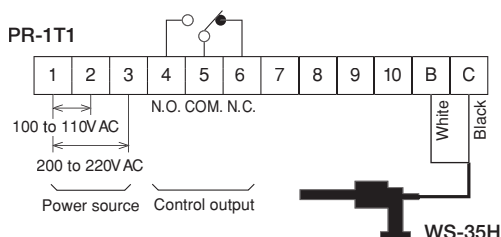| Type	Through-beam type
Model	Amplifier: PR-1T1 Detector: WS-35H
Power source	100 to 110VAC/200 to 220VAC(±10％ 50/60Hz)
Power consumption	10VA or less
Detecting distance	2m(depending on size or temperature of detecting object)
Detectable object	Heated materials with 800℃ or more
Detecting view	Approx. ϕ50 at 1m
Response time	25msec or less
Operating mode	Changeover of DARK-ON/LIGHT-ON
Control output	1C relay(250VAC 5A cosϕ=1)
Connection	M3 screw terminal
Ambient temperature	-10 to +50℃, (-10 to +150℃ when water-cooling for detector only)
Ambient humidity	45 to 85%RH(Not icing)
Cooling water	Withstand pressure: 490kPa, pressure: 98 to 196kPa, amount: 2 to 4lit/min., temperature: 35℃ or less, ϕ11 hose nipple
Air purge＊	Withstand pressure: 980kPa, amount: 100lit./min. or more, ϕ11 hose nipple
Case	Amp. unit: steel plate(SPCC), detector: steel plate nickel-plated, stand for detector: Aluminum die-casting
Weight	Amp. unit: Approx. 2.1kg, detector: Approx. 1.5kg

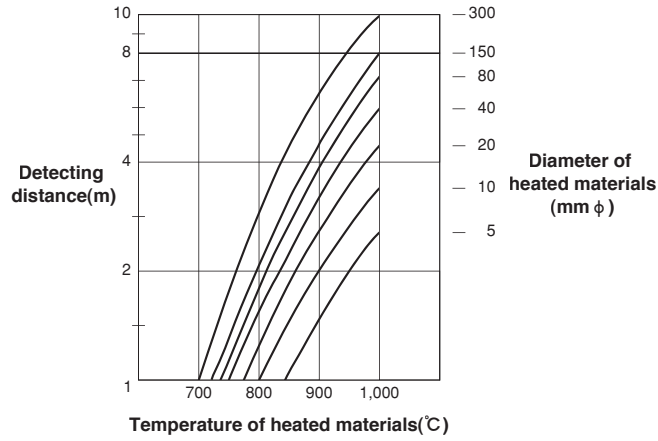＊Non-air dust-purge hood type is also available.

■ Detecting view

1m
2m
Approx. ϕ 50mm
Approx. ϕ 100mm

■ Connection

PR-1T1

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | B | C |

N.O. COM. N.C.

White   Black

100 to 110V AC
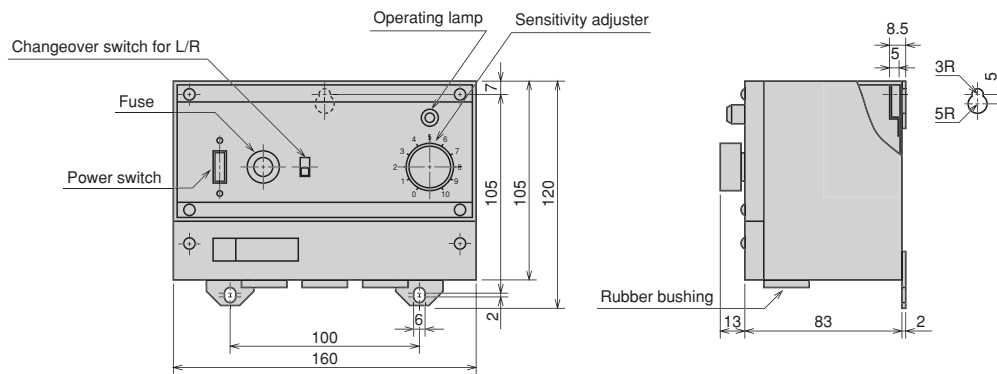200 to 220V AC
Power source   Control output

WS-35H

Note) It shows power-on and non-detecting state. (Sensor doesn't receive radiant heat)

■ Characteristic data(Typical example)

Detecting distance(m)

Diameter of heated materials (mm φ)

Temperature of heated materials(℃)

■ External dimensions

Amplifier unit

Operating lamp
Sensitivity adjuster
Changeover switch for L/R
Fuse
Power switch
Rubber bushing

8.5
5
3R
5R
5
7
105
105
120
2
6
100
160
13
83
2

Detector

200
Within 110
φ11
Cooling water φ6
35
40
60
φ56
Cabtyre cable(with 1m)
60
Hood can be removed
35
φ6
φ11
Air
(For dust-proof)
15
40
Cooling water
60
Cooling water
105
85
40
9
30R
10°
11