

NEW PRODUCTS

HOKUYO

OPTICAL FIBER TYPE HMD

PRV-10 series

Setting of sensitivity adjustment against temperature of detecting material had not been obvious. However this equipment displays reception level lamps in every twice using linear characteristic relationship between temperature and analog output voltage(8 levels). Operation setting can be made with level display or analog voltage. Also, there are three ranges, L/M/H as detection temperature changeover switch. Any parts such as slits etc. aren't required for 350 to 1,200 degrees C. It is epoch-making HMD that operation point setting is possible with detecting condition before operation.

*This device doesn't specify power source. It is capable of being used within the scope of 100 to 240VAC.

*Water-cooling or air-purge isn't required for sensor head because non-air dust purge hood is applied.

*8-point LED display unable to monitor the margin and emitting state.

*Warning output is provided.

*We have wide variety of sensor head. Refer to data sheets of head.



Specifications

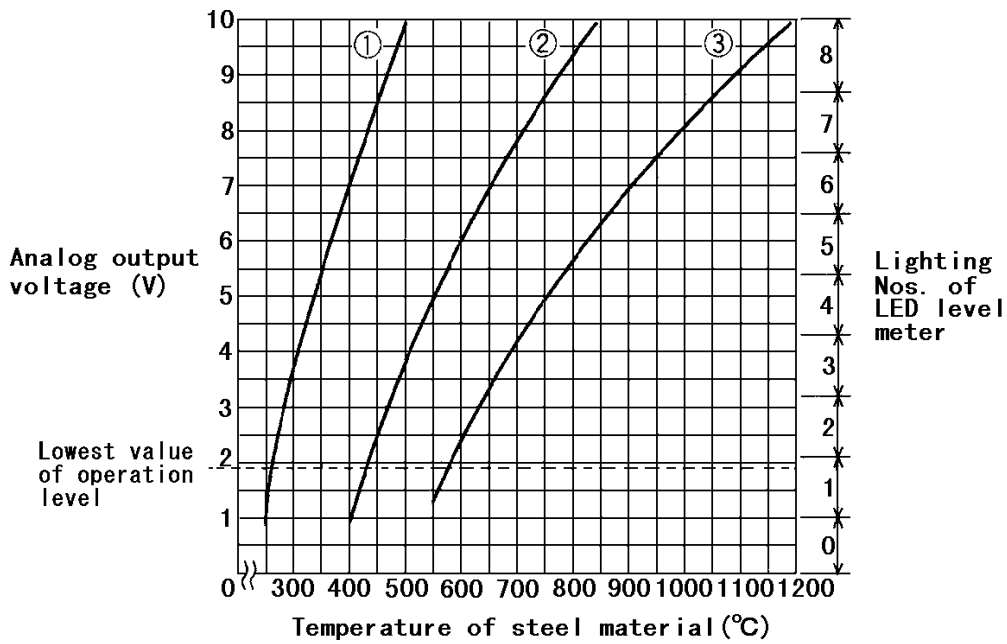
Model No.	Amplifier : PRV-10A *1 Sensor head : FHM-201(Basic type), FHM-203(Narrow directivity type), FHM-201-8WA (Wide directivity type) Fiber unit *2 : FHV-321(2m), FHV-351(5m), FHV-411(10m)
Detectable object	Heated material with 360 to 1,200 degrees C
Detectable distance	5m(Different depending on the size or temperature of detectable objects against detection range, or fiber length *3)
Power source	100 to 240VAC(+10%, - 15%, 50/60Hz)
Power consumption	5VA or less
Control output	1C relay contact(250VAC 3A, 30VDC 5A, COS ϕ =1),
Warning output	Photo-coupler(120V or less, 100mA)
Analog voltage output	Executed by changing light-entering amount/operation setting(Do not use it except for adjustment)
Response time	Contact output : 20msec or less, Contactless output : 5msec or less
Operation mode	Changeover of DARK-ON/LIGHT-ON
Connection	Connector type(Cable 2m)
Fiber unit characteristics	Allowable bending radius : 100mm, Max. pressure : 784MPa, Tension strength : 490N
Ambient temperature	Amplifier : -10 to 55 degrees C, Sensor head/Fiber unit : -10 to 200 degrees C
Ambient humidity	45 to 85%RH(Not frozen)
Insulation resistance	20M ohm or more(Between power/output contact and case)
Withstand voltage	1,500VAC/min. (Between power/output contact and case)
Vibration resistance	10 to 55Hz Double amplitude 1.5mm Each 2 hour in X, Y and Z directions
Impact resistance	490m/s ² Each 3 time in X, Y and Z directions
Protective structure	Amplifier : IP64(IEC standard) Sensor head : IP66(IEC standard) Fiber unit : Corrugated tube with blade(SUS)
Case	Amplifier : Aluminum die-casting Sensor head : Aluminum
Weight	Amplifier : Approx. 950g Sensor head : FHM-201 approx. 1.2kg, FHM-203 approx. 2.5kg, FHM-201-8WA approx. 1.7kg Fiber unit : FHV-321 approx. 1.0kg, FHV-351 approx. 1.8kg, FHV-411 approx. 2.8kg

*1 PRV-10B with communication function and PRV-10C with detection temperature outside changeover function are also available.

*2 3m, 15m and 20m type are also available.

*3 Ask us in details.

Characteristics data



- ① Detection temperature changeover switch : L
- ② Detection temperature changeover switch : M
- ③ Detection temperature changeover switch : H

Occupation of head view : 100%
 Fiber unit : FHV-321(2m)
 Fiber head : FHM-201

External dimension

*Amplifier unit

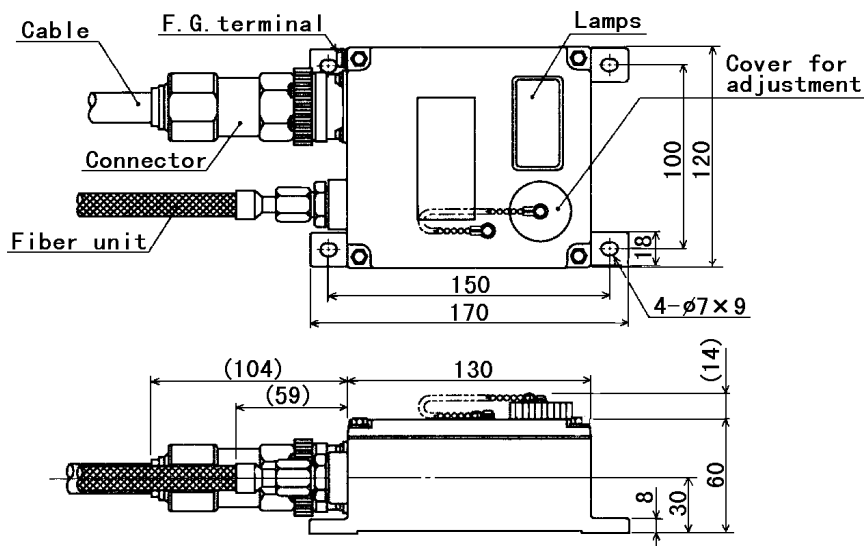


PHOTO SENSOR, LASER SENSOR, MICROWAVE SENSOR, COUNTER, AUTOMATIC DOOR



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