Optical Fiber Type HMD



PRV-10

Miniaturized amplifier
Easy to monitor light-receiving level with
8-point level lam p
Detecting the heated materials with 360 to 1,20 0

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. It is epoch-making HMD that operation point setting is possible with detecting condition before operation.

It is capable of being used within the scope of 100 to 240VAC. 8-point LED display unable to monitor the margin and emitting

Warning output is provided.

We have wide variety of sensor head.



Specifications

state.

Type	Through-beam type						
Mode I	Amp. unit: PRV-10A *1 Sensor head: FHM-201(Basic type), FHM-203(Narrow directivity type), FHM-201-8WA(Narrow directivity type) Fiber unit *2: FHV-32 1(2m) • FHV-351 (5m) • FHV-41 1(10m)						
Power source	100 to 240VAC(10%, -15% 50/60Hz)						
Power consumption	5VA or less						
Detecting distance	5m(Different depending on the size or temperature of detectable objects against detection rang length.*3)	e, or fiber					
Detectable object s	Heated materials with 360 to 1,200						
Response tim e	Contact output: 20msec or less, Contactless output: 5msec or les s						
Oerating mode	Changeover of DARK-ON/LIGHT-ON						
Control output	1C relay contact(250VAC 3A, 30VDC 5A, COS p=1), Photo-coupler(120V or less, 100mA)						
Warning output	To relay contact(250VAC 5A, 50VDC 5A, COS p=1), Prioto-coupler(120V or less, 100mA)						
Analog output	Executed by changing light-entering amount/operation setting(Do not use it except for adjustm	ent)					
Connectio n	Connector type(Cable 2m)						
Fiber unit characteristic s	Allowable bending radius: 100mm, Max. pressure: 784MPa, Tension strength: 490N						
Ambient illuminanc e	10,000lux or less(Incandescent lamp)						
Ambient temperatur e	Amp. unit: -10 to +55 , Sensor head • Fiber unit: -10 to +200						
Ambient humidit y	45 to 85%RH(Not icing)						
Protective structur e	Amp. unit: IP64(IEC Standard), Sensor head: IP66(IEC Standard) Fiber unit: Corrugated tube with blade(SUS)						
Case	Amp. unit: Aluminum die-casting, Sensor head: Aluminum						
Weight	Amp. unit: Approx. 950g Sensor head: FHM-201 Approx. 1.2kg, FHM-203 Approx. 2.5kg, FHM-201-8WA Approx. 1.7k Fiber unit: FHV-321 Approx. 1.0kg, FHV-351 Approx. 1.8kg, FHV-411 Approx. 2.8k g	g					

^{*1.} PRV-10 B with communication function and PRV-10C with detection temperature ou tside changeover function are also avail able.

Photo-mos relay type for contr ol output is also I ined-up.

Optical axis adjustment

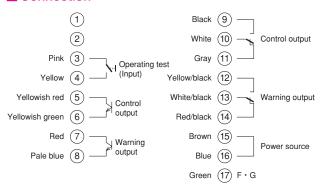
Optical a xis adjuster, TE S -110 and TE S -140 are also available as an option.(A sk us in details) T his is using red laser element(C lass 2) and it is easy to adjust optical a xis visually.



^{*2. 3}m, 15m and 20m type are also avai lable.

^{*3.} Ask us i n details.

■ Connection



Control output(Operating mode can be changed by inner switch)

Operating mode		Operation when detecting			Operation when non-detecting		
Connector pin No.		5-6	9-10	10-11	5-6	9-10	10-11
Power-off state		OFF	OPEN	CLOSE	OFF	OPEN	CLOSE
Power-	When detected	ON	CLOSE	OPEN	OFF	OPEN	CLOSE
	When non-detected	OFF	OPEN	CLOSE	ON	CLOSE	OPEN

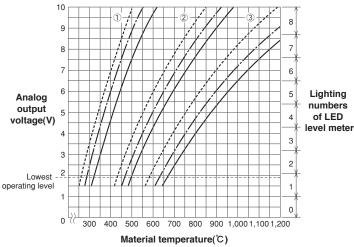
Warning output

Connector pin No.		7-8	12-13	13-14
Power-off state		OFF	OPEN	CLOSE
Power- When norma	al	ON	CLOSE	OPEN
on state When troub	led	OFF	OPEN	CLOSE

■ Characteristic data(Typical example)

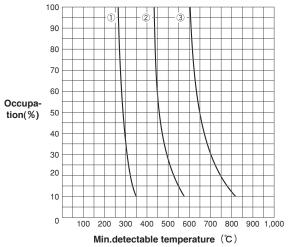
Material detecting temperature characteristic

- ① Detection temperature changeover switch:L Sensor head FHM-201
- Detection temperature changeover switch:M
 Detection temperature changeover switch:H Sensor head FHM-203 Sensor head FHM-201-8WA



Min. detectable object and detecting temperature characteristic

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



■ External dimensions

Amplifier(Common use for projector/receiver)

