

PH-DX

Free voltage, 12 to 240VDC and 24 to 240VAC

Light-reception amount can be display with 5-point level lamp and so it is easy to check light-reception margin or dirty lens surface and dislocation of optical axis.

Self-diagnosis function that checks light-reception margin provides with projector. This output is executed.

Output will be made when level of light-reception amount is lower than specific value caused by dirty lens surface or dislocation of optical axis.



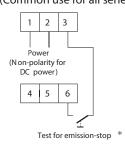
Specifications

Туре	Through-beam type				
Model	PH-DX-R-21	PH-DX-M-21	PH-DX-R-71	PH-DX-M-71	
Power source	12 to 240VDC or 24 to 240VAC(10%, -15%)				
Power consumption	AC power: Projector 0.5VA or less, Receiver: 3VA or less DC power: Projector 0.5W or less, Receiver: 3W or less				
Detecting distance	30m or less(Without slit for both projector and receiver)				
Detectable objects	Opaque object with ρ30mm or more				
Response time	10msec or less	3msec or less	10msec or less	3msec or less	
Operating mode	Changeover for Light-ON and Dark-O N				
Control output	1a rela y	1a phot-mos rela y 125VAC/DC 100mA,	1a rela y	1a phot-mos rela y 125VAC/DC 100mA,	
Self-diagnosis output	250VAC 3A, 30VDC 5A, cos ρ=1	Residual voltage 3V or less(at 100mA)	250VAC 3A, 30VDC 5A, cos ρ=1	Residual voltage 3V or less(at 100mA)	
Sensitivity adjuster	Provided				
Connection	M3 screw terminal				
Ambient illuminance	10,000lux or less(Incandescent lamp)				
Ambient temperature/humidity	-10 to +55 , 45 to 85%RH(Not icing)				
Protective structure	IP66(IEC Standard)				
Case	Aluminum die-castin g				
Weight	Approx. 1.5kg for both projector and receiver				
Remarks	Standard hood Non-air dust-purge hood				

PH -D X with self-diagnosis output , 1b and PH -W X with water-cooling tank are lined -up.

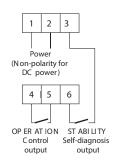
Connection

Projector (Common use for all series)



^{*}Operation of projector can be checked

Projector(PH-DX-2A - 1)



Control output(Operating mode can be	e changed by inner switch
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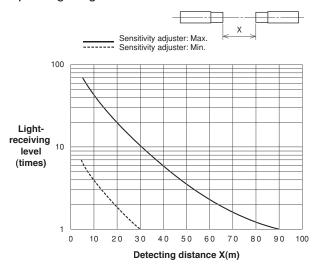
Operating mode		Light-O N		Dark-O N	
		Terminal No.	Indicator	Terminal No.	Indicator
		4-5	OPERATIO N	4-5	OPERATIO N
Power-off	Power-off state		Goes off	OPEN	Goes off
Power- on state	When light-entering	CLOSE	Lights on	OPEN	Goes off
	When light- interrupting	OPEN	Goes off	CLOS E	Lights on

Self-diagnosis output

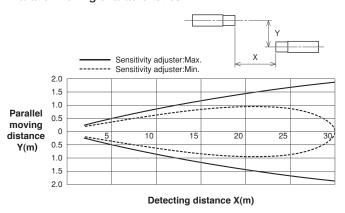
		Terminal No.	Indicator	
		3-6	STABILITY	
Power-off state		OPEN	Goes off	
Power- on state	When normal	CLOSE	Lights on	
	When troubled	OPEN	Goes off	

■ Characteristic data(Typical example)

Operating margin characteristics



Parallel moving characteristics



■ External dimensions

Common use for projector/receiver

