

PHOTO MASTER



Photoelectric Switch

PNX

s e r i e s

CE **RoHS**

- | Maximum detectable length of 70m
- | Easy to adjust optical axis with Red LED
- | AC,DC Free power source
- | Sensitivity adjuster

HOKUYO

Specifications			
Type	DC power source	AC · DC free power source	
	Through-beam type	Through-beam type	Retro-reflection type
Model No.	PNX-705CD	PNX-705R	PNX-123R
Power source	10 to 30VDC including ripple (p-p) 10%	24 to 240VAC±10% 50/60Hz, 24 to 240 VDC±10%	
Power consumption	35mA or less	3VA or less	2VA or less
Light source	Red LED		
Detection distance	70m	0.01–12m *1	
Detectable object	φ 15mm	□40mm	
Operating mode	Changeover of LIGHT-ON/DARK-ON by cabling	LIGHT-ON	
Control output	NPN Maximum 100mA/30VDC	1C relay *2, 250VAC 3A or less/30VDC 2A or less (Resistance load)	
Response time	0.5ms or less	15ms or less	
Sensitivity adjustment	Provided		
Indication lamps	Output lamp : Orange LED, Stable lamp : Green LED (Not provided on Through-beam type projector)		
Connection	Cable type (length 2m φ3.8mm)	Cable type (length 2m φ6.4mm)	
Ambient temperature	-25 to +55°C (not icing)		
Ambient humidity	35 to 85%RH (not condensing)		
Protective structure	IP67 (IEC standard)		
Case material	Main body : ABS resin including glass fiber, Front cover : polycarbonerd (reflector : PMMA)		
Weight (cable included)	Approx. 75g for projector 80g for receiver	Approx. 140g for projector 170g for receiver	
Attachment	Mounting bracket	Mounting bracket	Mounting bracket Reflector(RRP-50S-V)

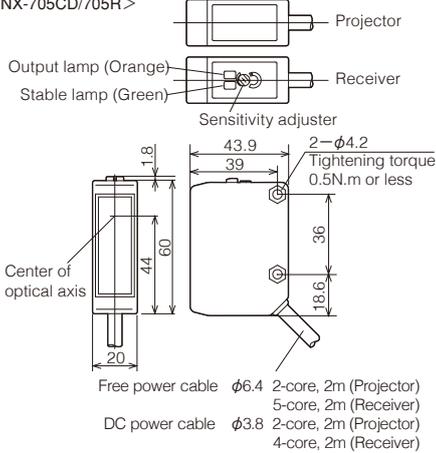
* 1. When using RRP-50S-V

*2. It is recommended to use surge absorber when inductive load (Solenoid valve, Electromagnetic contactor) is driven by relay contact.

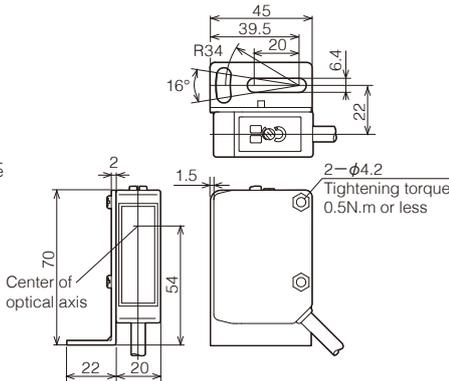
External dimensions

● Sensor

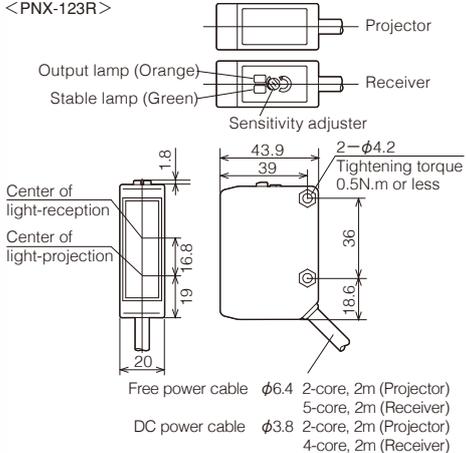
<PNX-705CD/705R>



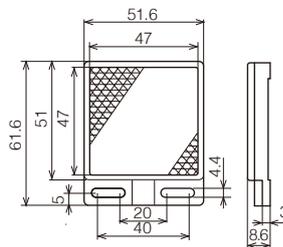
● Installation bracket



<PNX-123R>

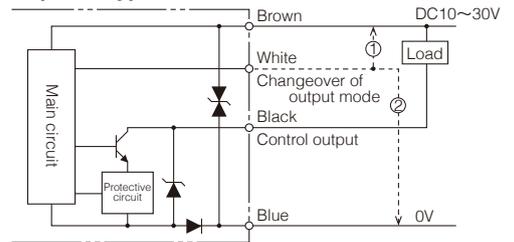


● Reflector (with retroreflective type)



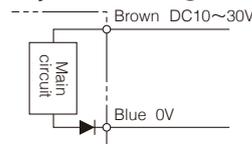
Connection

● DC power type

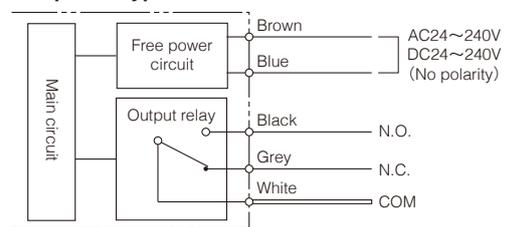


- ①Light-on when white lead wire is connected to +V or free.
②Dark-on when white lead wire is connected to 0V.

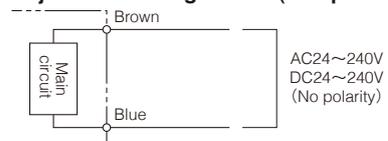
● Projector of through beam type (DC power)



● Free power type



● Projector of through beam (free power type)



HOKUYO AUTOMATIC CO.,LTD.

Osaka HU Building, 2-2-5 Tokiwamachi, Chuo-Ku,
Osaka, Japan. 540-0028
TEL : +81-6-6947-6333 FAX : +81-6-6947-6350
URL <http://www.hokuyo-aut.jp>
E-mail : info@hokuyo-aut.jp