Photoelectric Switch

PLX SERIES CE

AC · **DC** free power source

 Though-beam type 10m, Retro-reflective type (With polarized filter) 4m, Refection type 70cm.

• Free power source, 24 to 240VAC/12 to 110VDC.

• Protective structure IP66.

 Sensing distance 30m for PLX-305W. Easy to adjust optical axis because of large margin lamp (red).







Retro-reflection type

Diffuse-reflection type

Specifications

Туре	Through-beam type		Retro-reflection type (with polarized filter)	Diffuse-reflection type	
Model No.	PLX-105W	PLX-305W	PLX-403W	PLX-701L	PLX-701R
Power source	24 to 220VAC (±10%, 50/60Hz), 12 to 110VDC (±10%, Ripple 10% or less)				
Power consumption	Projector/receiver: each 4W or less 5W or less				
Light source	Infrared LED		Red LED	Infrared LED	
Detection distance	10m or less	30m or less	0.1 to 4m or less*1	70cm or less (white paper with 10cm×10cm)	
Detectable object	Opaque object with 13×13mm or more		Opaque object with 30×30mm or more	Transparet/opaque objects	
Operating mode	Changeover by adjuster*2 ■ Light-ON: Set to L side ■ Dark-ON: Set to D side			Dark-ON	Light-ON
Control output	1C relay, 250VAC 3A or less (Resistance load), 30VDC 3A or less (Resistance load) Mechanical life: 50 million times, Electrical life: 0.1 million times				
Response time	20msec or less				
Sensitivity adjustment	Fixed		Provided		
Indication lamps	Projector: power lamp (Orange LED) Receiver: control output lamp (Orange LED), margin lamp (Red LED)*3		Control output lamp (Orange LED)		
Connection	Cable type (length 2m, 0.3mm²×5 cores*4, UL heat-resistance vinyl cable)				
Ambient illuminance	Sunlight: 10,000lx or less, incandescent lamp: 3,000lx or less				
Ambient temperature and humidity	-25 to +55°C (-40 to +70°C when stored), 35 to 85% (35 to 95% when stored), not icing/not condensing				
Insulation resistance	20MΩ or more (500VDC megger)				
Withstand voltage	2,000VAC, 1min.				
Vibration resistance	Double amplitude 1.5mm, 10 to 55Hz, each 2 hour in X, Y and Z directions				
Impact resistance	500m/s², each 3 time in X, Y and Z directions				
Protective structure	IP66 (IEC standard)				
Case material	Case: ABS, lens: acrylic resin				
Weight	Approx.160g for both projector and receiver Approx. 160g				
Attachment	Mounting bracke	t	Mounting bracket and Reflector (RRP-50S-V)	Mounting brack	et

^{*1.} When using RRP-50S-V. *2. Light-ON is set when delivery. *3. Provided to PLX-305W only. *4. Projector of through-beam type is 2 cores.

Reflector (Attachment)

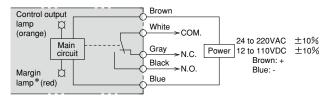
Appearance	Model No.	Remark
	RRP-50S-V	It provides with retro- reflection type. Specifications are as per this reflection.

C

Connection Projector of through-beam type

Power lamp (orange) Main circuit Brown Power 12 to 110VDC ±10% Brown: + Blue: -

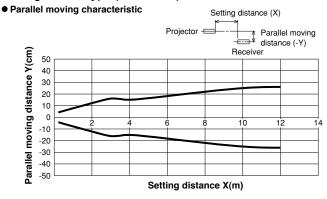
Receiver of through-beam type, retro-reflection and diffuse reflecion type



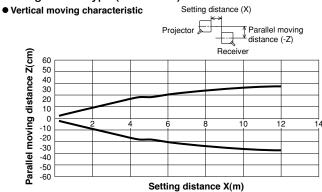
^{*} Provided to PLX-305W only.

■ Characteristic data (Typical)

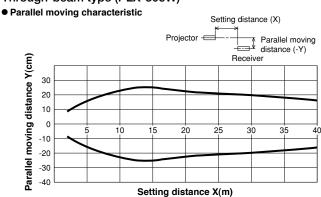
Through-beam type (PLX-105W)



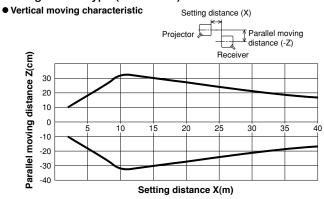
Through-beam type (PLX-105W)



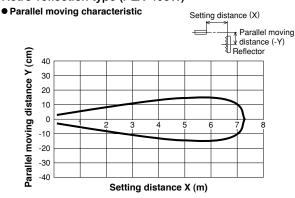
Through-beam type (PLX-305W)



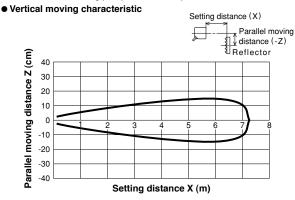
Through-beam type (PLX-305W)



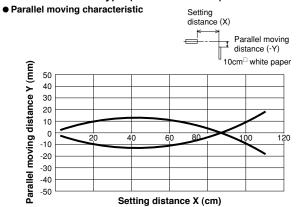
Retro-reflection type (PLX-403W)



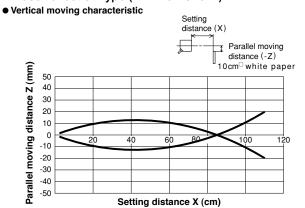
Retro-reflection type (PLX-403W)



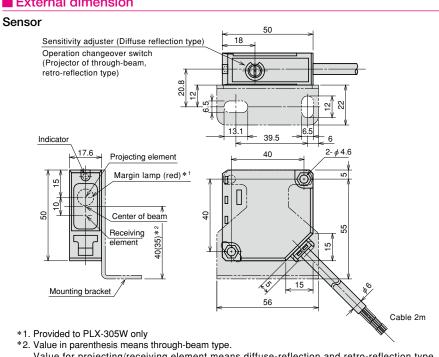
Diffuse-reflection type (PLX-701R/701L)



Diffuse-reflection type (PLX-701R/701L)



External dimension



Reflector (attached to retro-reflection type)

