

# LED..R70XD4-..High-Intensity Ring Light

High-Intensity Ring Light For Use With PresencePLUS and other Vision Systems



- Compact ring light for PresencePLUS and other Vision Systems
- Four extremely bright LEDs for illumination of targets from 0.15 meters to beyond 2 meters
- Continuous or strobed operation
- Fixed or adjustable intensity, depending on model
- Maintenance-free, rugged construction
- Evenly and intensely illuminates a 610 mm (24") diameter at 1 m.

### **Models**

Model*	LED Color	Bracket	Cable	
LEDRR70XD4-XQ	Red, 625 nm			
LEDWR70XD4-XQ	White, 5500 K		150 mm (6") pigtail with threaded 5-pin Euro-style connector†	
LEDBR70XD4-XQ	Blue, 470 nm	Optional bracket available (see Mounting Bracket)		
LEDGR70XD4-XQ	Green, 530 nm			
LEDIR70XD4-XQ	Infrared, 850 nm			
LEDRR70XD4-XM	Red, 625 nm		300 mm (12") pigtail with threaded 3-pin Pico-style connector††	
LEDWR70XD4-XM	White, 5500 K			
LEDBR70XD4-XM	Blue, 470 nm	Built-in P4 bracket (see dimensions)		
LEDGR70XD4-XM	Green, 530 nm	,		
LEDIR70XD4-XM	Infrared, 850 nm			

<sup>\*</sup> For models with controllable intensity, add "P" to the model number (e.g., LEDRR70XD4-PQ).

†† Connects directly to the P4 sensor.

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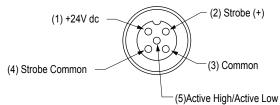
<sup>†</sup> Requires Euro-style cordset.

# **Specifications**

Feature	Description	
Light Source	Four high-intensity LEDs; see models table for wavelengths	
Illumination	610 mm (24") diameter usable light pattern at 1 m	
Strobe	Optically isolated	
Supply Voltage and Current	Operating Voltage: 24V dc ±10%	
	Strobe Voltage: 5-24V dc @ 15 mA maximum	
	Current Draw at Full Intensity: 350 mA max	
	Built-in constant current regulator for LEDs	
	Potentiometer controls variable intensity for "P" models	
Construction	Enclosure rating: IP50	
	Housing: aluminum, black anodized	
	Window: acrylic, clear with frosted diffusing surface on inside	
	<b>Bracket:</b> Aluminum, black anodized. Attaches ring light directly to Presence-PLUS P4 with 2 included M4x14 screws.	
Useful Life	50,000 hours (LED ON time). When operated within specifications, output will decrease less than 30% after 50,000 hours.	
Operating Conditions	<b>Temperature:</b> 0° to +50° C (+32° to 122° F)	
	Relative humidity: 90% (non-condensing)	

### **Wiring Table**

Wire Purpose	Cable Wire Color*	Continuous On Mode	Strobed Mode	PresencePlus Pro Controller Terminal Block
Power Wires	Brown (1)	+24V dc	+24V dc	Pin 01
	Blue (3)	common	common	Pin 02
Strobe Polarity Control	Gray (5)	open	Active Low: open Active High: connect to common (Blue wire)	Pin 02
Strobe Voltage Wires			0V dc = ON (Active Low)  0V dc = OFF (Active High)  +5 to 24V dc = OFF (Active Low)  +5 to 24V dc = ON (Active High)	Pin 04
	Black (4)	open	Strobe common	Pin 02



**Figure 1: Pinouts for Mating Cable** 

Pinouts of the original 4-pin connector is the same as above, but without the center pin (gray wire).

Note: To meet CE certification requirements, the light needs to be connected to earth ground.

<sup>\*</sup> For Banner-supplied wire.

"M" Models

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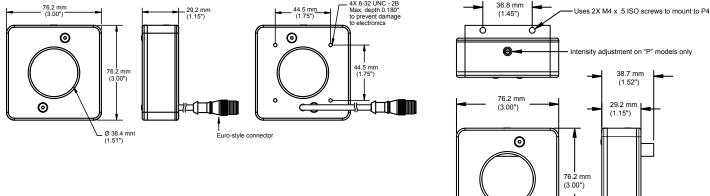
Ø 38.4 mm (1.51")

### **Light Adjustment**

#### **Intensity Adjustment**

Adjust the light's intensity by turning the 270° Intensity potentiometer with a small flat-blade screwdriver. Apply power to the light and turn the potentiometer all the way clockwise for max. intensity. If the object to be sensed is too bright at max. intensity, turn the potentiometer down a little at a time, testing with the object, until the correct brightness is achieved.

"Q" Models



## **Quick-Disconnect (QD) Cordsets**

Style	Model	Length	Connector
5-Pin Threaded Euro- style, straight	MQDC20-506 MQDC20-515 MQDC20-530	2 m (6') 5 m (15') 9 m (30')	## 15 mm (0.59")  ## 15 mm (0.59")  ## 12 x 1

Note: These 5-wire cables can also be used on 4-pin connector lights

Pico-style connector

## **Accessory Brackets**

#### **SMBPPRHI**

- · Black anodized aluminum bracket
- Mounts directly to PresencePLUS Pro sensor
- Includes: 2 6-32 screws (socket drive, button head) 4 – M3 screws (socket drive, cap head)



