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LED Series High-Intensity Area Light

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

Features



- Compact area light for PresencePLUS and other Vision systems
- Five extremely bright LEDs for illumination of targets from 0.15 meters to beyond 2 meters
- Continuous or strobed operation
- Optically isolated strobe signal
- Fixed or adjustable intensity, depending on model
- Maintenance-free, rugged construction

Models

Model*	LED Color	Cable
LEDRA70XD5-XQ	Red, 620 - 630 nm	150 mm (6") pigtail with threaded 5-pin Euro-style connector†
LEDWA70XD5-XQ	White, 5,000 - 8,300 K	
LEDBA70XD5-XQ	Blue, 465 - 485 nm	
LEDGA70XD5-XQ	Green, 520 - 535 nm	
LEDIA70XD5-XQ**	Infrared, 850 nm	
LEDRA70XD5-XM	Red, 620 - 630 nm	2 m (6.5') pigtail with threaded 3-pin Pico-style connector††
LEDWA70XD5-XM	White, 5,000 - 8,300 K	
LEDBA70XD5-XM	Blue, 465 - 485 nm	
LEDGA70XD5-XM	Green, 520 - 535 nm	
LEDIA70XD5-XM**	Infrared, 850 nm	

* For models with controllable intensity, add "P" to the model number (e.g., LEDRA70XD5-PQ).

** Coming soon

† Requires Euro-style cordset.

†† Connects directly to the P4 sensor.



Specifications

Supply Voltage and Current

Operating Voltage: 24V dc $\pm 10\%$

Strobe Voltage: 5-24V dc @ 15 mA maximum

Current Draw at Full Intensity: 350 mA max

Built-in constant current regulator for LEDs

Adjustable intensity control varies intensity for "P" models

Light Source

Five high-intensity LEDs; see models table for wavelengths

Illumination

610 mm (24") diameter usable light pattern at 1 m

Strobe

Optically isolated

Connections

5-pin Euro-style (M12) male connector; accessory cable required for operation, see Cables for options

Construction

Enclosure rating: IP50 (when mounted using the two $\frac{1}{4}$ - 20 holes in back)

Housing: aluminum, black anodized

Window: acrylic, clear with frosted diffusing surface on inside

Useful Life

50,000 hours (LED ON time). When operated within specifications, output will decrease less than 30% after 50,000 hours.

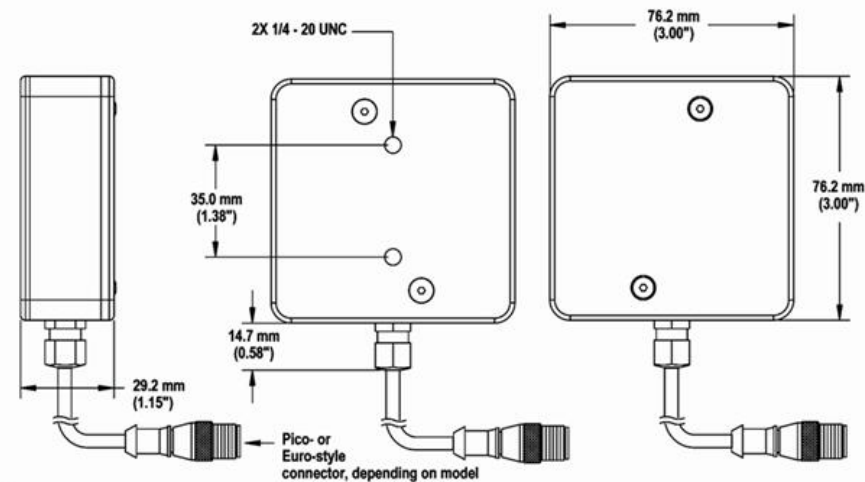
Operating Conditions

Temperature: 0° to +50° C (+32° to 122° F)

Relative Humidity: 90% (non-condensing)

Dimensions

Back View Front View



Light 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.

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	Open — Active Low
			Active High: connect to common (Blue wire)	Pin 02 — Active High
Strobe Voltage Wires	White (2)	open	0V dc = ON (Active Low) +5 to 24V dc = OFF (Active Low)	Pin 04
			0V dc = OFF (Active High) +5 to 24V dc = ON (Active High)	
	Black (4)	open	Strobe common	Pin 02

Figure 1. Pinouts for Mating Cable

* For Banner-supplied wire.

** When connecting the light to a PresencePLUS Pro controller terminal block, the controller supply must be 24V dc \pm 10%.

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

Accessories

The following describes available cordset and bracket options for these lights.

Cordsets

For Use with Nickel-Plated Models			
Model	Length	Description	Dimensions
MQDC20-506	2 m (6')	5-pin cable, straight female Euro-style (M12) connector at one end, with flying leads at opposite end.	
MQDC20-515	5 m (15')		
MQDC20-530	9 m (30')		

NOTE: These 5-pin cordsets can also be used on 4-pin connector lights.

Bracket

SMBAMS70A



- Zinc-plated cold rolled steel right-angle bracket
- Articulated slots for 90+ degrees rotation
- two 1/4-20 screws included

Contact Us

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