# Features

*For use with Banner Vision Systems*

To view or download the latest technical information about this product, including specifications, dimensions, accessories, and wiring, go to www.bannerengineering.com.



- Compact area light for Banner Vision Systems
- Five 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
- Optically isolated strobe signal

**IMPORTANT:** Read the following instructions before operating the light. Please download the complete LED..A70XD5-..High-Intensity Area Light technical documentation, available in multiple languages, from www.bannerengineering.com for details on the proper use, applications, Warnings, and installation instructions of this device.

**IMPORTANT:** Lea el siguiente instructivo antes de operar el luminario. Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los LED..A70XD5-..High-Intensity Area Light, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

**IMPORTANT:** Lisez les instructions suivantes avant d'utiliser le luminaire. Veuillez télécharger la documentation technique complète des LED..A70XD5-..High-Intensity Area Light sur notre site www.bannerengineering.com pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions de montage.

# Models

| Model | Intensity | LED Color | Cable |
|---|---|---|---|
| **LEDRA70XD5-XQ** | Fixed | Red, 620 nm to 630 nm | 150 mm (6 in) PVC-jacketed cable with a 5-pin M12 male quick-disconnect connector<br>Requires M12 mating cordset |
| **LEDRA70XD5-PQ** | Adjustable | | |
| **LEDWA70XD5-XQ** | Fixed | White, 5000 K to 8300 K | |
| **LEDWA70XD5-PQ** | Adjustable | | |
| **LEDBA70XD5-XQ** | Fixed | Blue, 465 nm to 485 nm | |
| **LEDBA70XD5-PQ** | Adjustable | | |
| **LEDGA70XD5-XQ** | Fixed | Green, 520 nm to 535 nm | |
| **LEDIA70XD5-XQ** | Fixed | Infrared, 850 nm | |
| **LEDUV395A70XD5-XQ** | Fixed | UV, 395 nm | |
| **LEDUV395A70XD5-PQ** | Adjustable | | |
| **LEDRA70XD5-XM** | Fixed | Red, 620 nm to 630 nm | 2 m (6.5 ft) PVC-jacketed cable with a 3-pin M8 male quick-disconnect connector<br>Connects directly to the P4 or VE sensor |
| **LEDWA70XD5-PM** | Adjustable | White, 5000 K to 8300 K | |
| **LEDIA70XD5-XM** | Fixed | Infrared, 850 nm | |

The following caution applies to UV 395 nm models:

Original Instructions
15-Jun-26

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153956
p/n: 153956 Rev. I

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

**CAUTION:**
**Risk Group 2: UV Emitted from this product.**

Eye or skin irritation may result from exposure. Use appropriate shielding and eye protection. Risk Group 2 (RG 2) products generally do not pose a realistic optical hazard if aversion responses limit the exposure duration or where lengthy exposures are unrealistic.

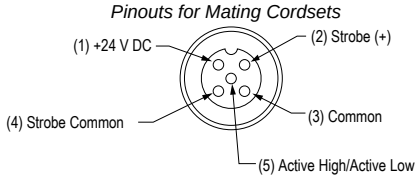
- IEC 62471

For a list of discontinued models, see Discontinued Models.

# Wiring

| Wire Purpose | Cable Wire Color[1] | Continuous On Mode | Strobed Mode | | *Presence*Plus Pro Controller Terminal Block |
|---|---|---|---|---|---|
| **Power Wires** | **Brown (1)** | +24 V DC | +24 V DC | | Pin 01[2] |
| | **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 | 0 V DC = ON (Active Low) | +5 V DC to 24 V DC = OFF (Active Low) | Pin 04 |
| | | | 0 V DC = OFF (Active High) | +5 V DC to 24 V DC = ON (Active High) | |
| | **Black (4)** | open | Strobe common | | Pin 02 |

*Pinouts for Mating Cordsets*




# Light 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.

# Specifications

**Supply Voltage and Current**

**Operating Voltage:** 24 V DC ±10%

**Strobe Voltage:** 5 V DC to 24 V DC at 15 mA maximum

**Current Draw at Full Intensity:** 500 mA max

Built-in constant current regulator for LEDs

Adjustable intensity control varies intensity for "P" models

Use only with a suitable Class 2 power supply (UL) or SELV power supply (CE)

See the electrical characteristics on the product label.

**Light Source**

Five high-intensity LEDs; see models table for wavelengths

**Illumination**

610 mm (24 in) diameter usable light pattern at 1 m (3.28 ft)

**Strobe**

Optically isolated

**Connections**

Integral 5-pin M12 male quick-disconnect connector, accessory cordset required

**Construction**

**Enclosure rating:** IP50 (when mounted using the two ¼ - 20 holes in back)

**Housing:** aluminum, black anodized

**Window:** acrylic, clear with frosted diffusing surface on inside

**Useful Life**

When operated within specifications, output will decrease less than 30% after 50,000 hours for visible and IR Models; 20,000 hours for UV models

**Operating Conditions**

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

**Humidity:** 90% maximum relative humidity (non-condensing)

(1) For Banner-supplied wire.
(2) When connecting the light to a *Presence*PLUS Pro controller terminal block, the controller supply must be 24 V DC ± 10%.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## Certifications

Banner Engineering BV
Park Lane, Culliganlaan 2F bus 3
1831 Diegem, BELGIUM

## Required Overcurrent Protection

**WARNING:** Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.

Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

Supply wiring leads < 24 AWG shall not be spliced.

For additional product support, go to www.bannerengineering.com.

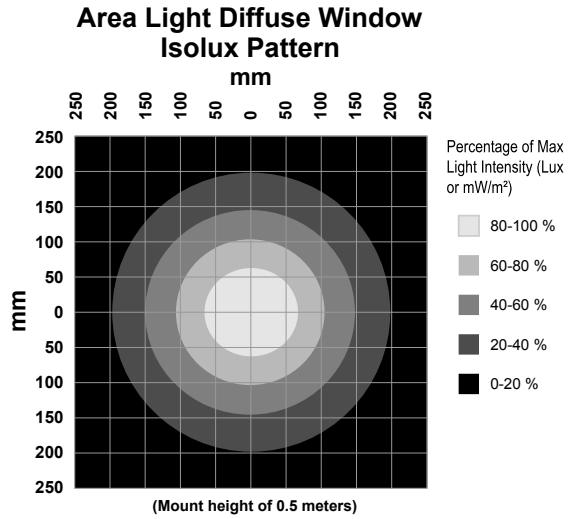
| Supply Wiring (AWG) | Required Overcurrent Protection (A) | Supply Wiring (AWG) | Required Overcurrent Protection (A) |
|---|---|---|---|
| 20 | 5.0 | 26 | 1.0 |
| 22 | 3.0 | 28 | 0.8 |
| 24 | 2.0 | 30 | 0.5 |

## Light Characteristics

Values shown are typical at 25 °C.

| | Lumens | | | | mWatts | |
|---|---|---|---|---|---|---|
| | Cool White | Green | Red | Blue | IR | UV395 |
| LEDxA70 | 555 | 435 | 215 | 160 | 1130 | 610 |

## Optical Data




Values shown are typical at 25 °C.

| Distance (m) | Max Center Beam Lux (lux) | | | | Max Center Beam Irradiance (mW/m²) | | Beam Width (m) | |
|---|---|---|---|---|---|---|---|---|
| | Cool White | Green | Red | Blue | IR | UV395 | Vertical (Spread 29.1°) | Horizontal (Spread 30.7°) |
| 0.25 | 22,990 | 18,019 | 8,906 | 6,628 | 46,808 | 25,268 | 0.13 | 0.14 |
| 0.5 | 7,030 | 5,510 | 2,723 | 2,027 | 14,313 | 7,727 | 0.26 | 0.27 |
| 1 | 1,850 | 1,450 | 717 | 533 | 3,767 | 2,033 | 0.52 | 0.55 |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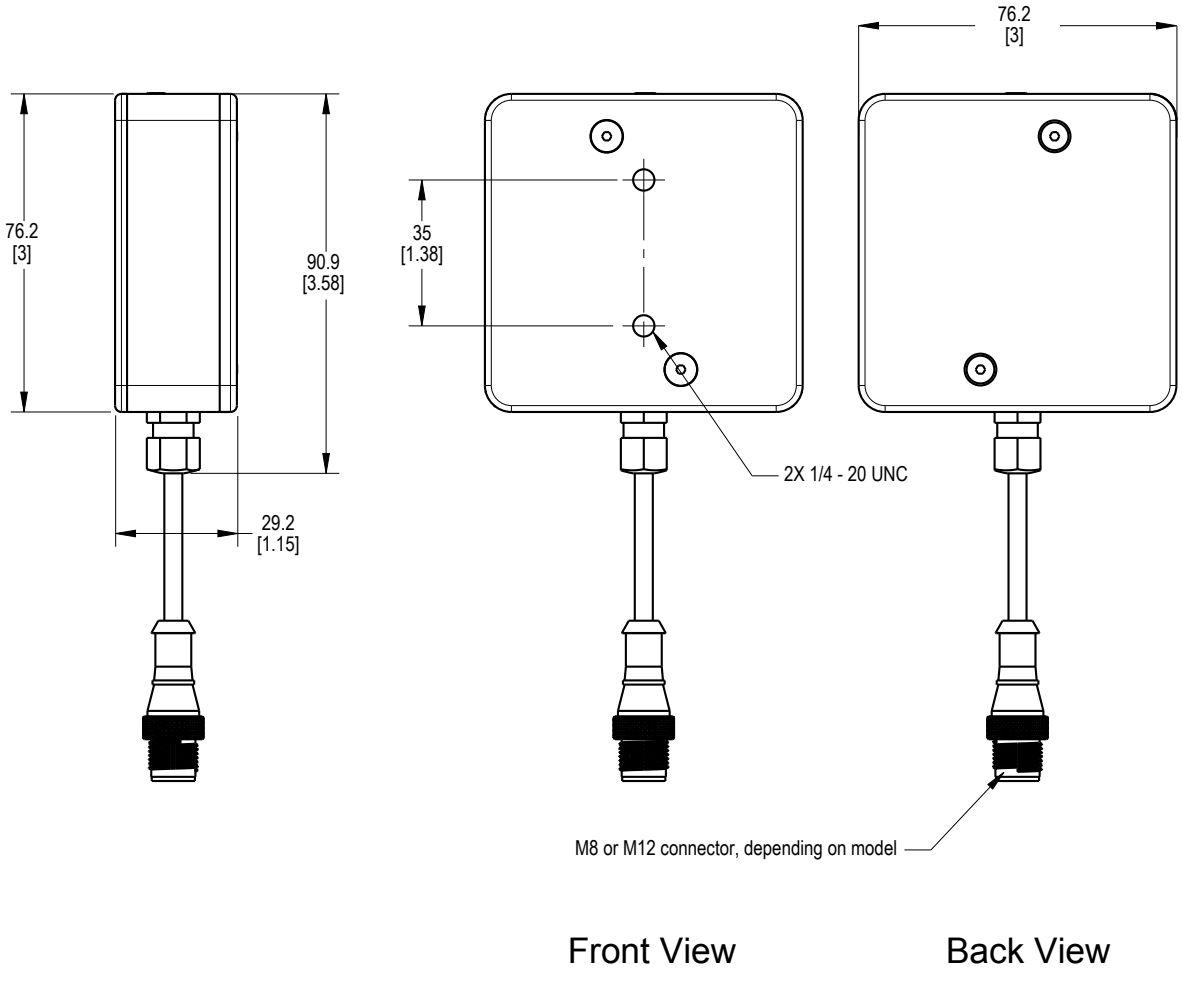
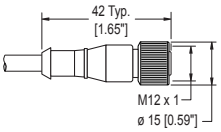
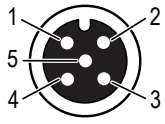
## Dimensions

All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change.




# Accessories

## Cordsets

| 5-Pin Single-Ended M12 Female Cordsets | | | | |
|---|---|---|---|---|
| **Model** | **Length** | **Style** | **Dimensions** | **Pinout (Female)** |
| **MQDC20-506** | 2 m (6.56 ft) | Straight |  |  |
| **MQDC20-515** | 5 m (16.4 ft) | | | |
| **MQDC20-530** | 9 m (29.5 ft) | | | |





1 = Brown
2 = White
3 = Blue
4 = Black
5 = Gray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## Bracket

**SMBAMS70A**

- Zinc-plated cold rolled steel right-angle bracket
- Articulated slots for 90+ degrees rotation
- Two 1/4-20 screws included
- CAD Files: DXF, PDF, IGS, STP



# Product Support and Maintenance

## Discontinued Models

The following models are no longer available for order but are still covered by the information in this document.

| Model | Intensity | LED Color | Cable |
|---|---|---|---|
| **LEDGA70XD5-PQ** | Adjustable | Green, 520 nm to 535 nm | 150 mm (6 in) PVC-jacketed cable with a 5-pin M12 male quick-disconnect connector<br><br>Requires M12 mating cordset |
| **LEDIA70XD5-PQ** | Adjustable | Infrared, 850 nm | |
| **LEDRA70XD5-PM** | Adjustable | Red, 620 nm to 630 nm | 2 m (6.5 ft) PVC-jacketed cable with a 3-pin M8 male quick-disconnect connector<br><br>Connects directly to the P4 or VE sensor |
| **LEDWA70XD5-XM** | Fixed | White, 5000 K to 8300 K | |
| **LEDBA70XD5-XM** | Fixed | Blue, 465 nm to 485 nm | |
| **LEDBA70XD5-PM** | Adjustable | | |
| **LEDGA70XD5-XM** | Fixed | Green, 520 nm to 535 nm | |
| **LEDGA70XD5-PM** | Adjustable | | |
| **LEDIA70XD5-PM** | Adjustable | Infrared, 850 nm | |
| **LEDUV395A70XD5-XM** | Fixed | UV, 395 nm | |
| **LEDUV395A70XD5-PM** | Adjustable | | |

## Banner Engineering Corp Limited Warranty

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For patent information, see www.bannerengineering.com/patents.

## Mexican Importer

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