COGNEX

In order to achieve the highest-quality images possible, Cognex® offers a wide variety of light modules. The LED array light module is designed for use in typical bar light applications, including front, angle, and multiple-angle lighting (for feature highlighting). The LED Array light module is available in red, white, and IR models. Additionally, an optional diffuser enhances this light module's front lighting performance, and also allows it to be used as a backlight.

4 pin connector



Models

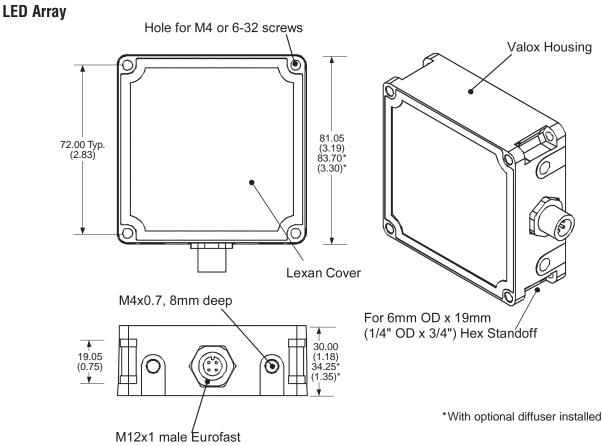
White LED Array Module: Model IDWA
IR LED Array Module: Model IDIA
Red LED Array Module: Model IDRA

SPECIFICATIONS

Mechanical

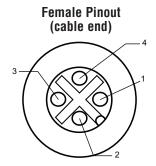
Notes:

- 1. All measurements are provided in millimeters (first number) and inches (number in parenthesis)
- 2. Light module shown without optional diffuser installed





Electrical



| | | | | Breakout Boards | | | |
|---|---------------|----------------|---------------------|------------------------|-----------------------|-------------------------|--|
| | Wire Color | Pin Number* | Function | CON-IBOB (500 Only) | CON-BRK (600 Only) | In-Sight® CIO-1350/1450 | |
| | Brown | 1 | + 24V | 24V | 16: V+ | 24VDC | |
| Γ | White | 2 | No connection | N/A | No connection | N/A | |
| Γ | Blue | 3 | Ground | GND | 15: GND | GND | |
| | Black | 4 | Strobe Input signal | IO8 | 14: or 17-20: IO12 | High-speed Output (0/1) | |

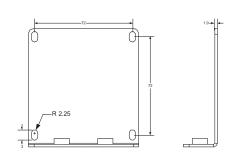
^{*}See figure at left for this numbering scheme

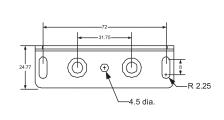
| LED Color | Wavelength | Light Part Number | Max Current | Max Duty Cycle | Max Average Current |
|--------------|----------------|----------------------|----------------|-------------------|------------------------|
| Red | 670nm | IDRA | 1.25 A | 15% | 188 mA |
| Infrared | 850nm | IDIA | 4.5 A | 5% | 225 mA |
| White | Not Applicable | IDWA | 1.1 A | 15% | 165 mA |

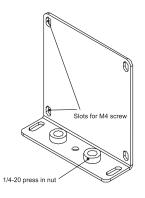
^{*}General characteristics: Voltage Supply = 24V, Trigger Voltage = 15V, Max single pulse = 50ms

OPTIONAL ACCESSORIES

LED Light Bracket (P/N ID0A-BR)







Note: All units in millimeters.

| Optional Accessory | Description | Part Number |
|------------------------------|--|-------------|
| Standoffs/ Screws | Hex Standoffs and screws for LED Array mounting. Includes four 3/4" long 6/32 hex threaded standoffs and four 3/4" long 6/32 socket head screws. | ID0A-SE |
| LED Array Module Cable | 6-meter (19.7ft) pigtailed cable, M12 connectors with bare wire ends | CBL-P18 |
| LED Array Module Diffuser | 51mm (2 in) diffuser for all models | ILC-605 |



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