

# MetaBright™ Linear Front Light

Model#: MB-LFL1X6



- Shock and Vibration proof up to 10 G's per MIL-STD-910F the highest industry standards
- Solid one-piece machined aluminum housings and thermal potting
- Performance extends to rugged environments
- Can be configured for wavelength and other specifications
- Equipt with pairing and axial rotation capabilities

| Part #           | Color          | Power Supply                                 | Specifications:       |              |
|------------------|----------------|--|-----------------------|--------------|
| MB-LFL1X6-W-24   | White 5500K    | 24 volt power supply available upon request. | Current Consumption   | .35A         |
| MB-LFL1X6-R-24   | Red 630nm      |  | Housing               | Aluminum     |
| MB-LFL1X6-B-24   | Blue 455nm     |  | Finish                | Anodized     |
| MB-LFL1X6-G-24   | Green 530nm    |  | Intensity Uniformity  | +/-5%        |
| MB-LFL1X6-IRN-24 | Infrared 850nm |  | Operating Temperature | 120° F Max   |
| MB-LFL1X6-IRL-24 | Infrared 880nm |  | Illuminance           | 120,000 Lux  |
| MB-LFL1X6-UVL-24 | UV 395nm       |  | Compliance            | CE/RoHS      |
| MB-LFL1X6-UVS-24 | UV 365nm       |  | Lifetime Hours        | 75,000 Hours |

10 ft. flying leads come standard on all products.  
Light features built-in constant current driver.  
No expensive controller required.

| Active Area                      | Dimensions                      |
|----------------------------------|---------------------------------|
| .63in x 6.41in<br>16mm x 162.7mm | 6.6in x .86in<br>168.3mm x 22mm |

## ORDERING INFORMATION:

• M B - L F L 1 X 6 -  - 2 4 -

|            |                |               |  |
|------------|----------------|---------------|--|
| <b>W</b>   | White 5500k    | <b>*BLANK</b> | 10 ft. Flying Leads                            |
| <b>R</b>   | Red 630nm      | <b>T</b>      | M12 Quick Disconnect                           |
| <b>G</b>   | Green 530nm    | <b>ILD</b>    | In Line Dimmer                                 |
| <b>B</b>   | Blue 455 nm    | <b>ILS</b>    | In Line Strobe (customer provide trigger info) |
| <b>IRL</b> | Infrared 880nm |               |  |
| <b>UVL</b> | (long) 395nm   |               |  |
| <b>UVS</b> | (short) 365nm  |               |  |

### Vision Light Tech B.V.

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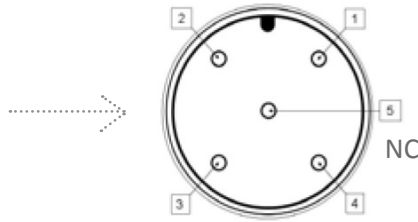


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## M12 Connector

| PIN # | Function                  |
|-------|---------------------------|
| 1     | +24VDC                    |
| 2     | 0-10VDC Intensity Control |
| 3     | Ground                    |
| 4     | Signal Ground             |



## Wiring Diagram

| Flying Leads | Function |
|--------------|----------|
| RED          | +24VDC   |
| BLACK        | Ground   |
| WHITE        | +24VDC   |
| GREEN        | Ground   |

24 AWG 4 WIRES CABLE X 1  
When not using intensity control, connect 0-10V control line to +24 (Max Intensity Control = 25V) and intensity control ground to ground

## Drawing/Diagram

| REVISIONS |      |                           |           |          |
|-----------|------|---------------------------|-----------|----------|
| ZONE      | REV. | DESCRIPTION               | DATE      | APPROVED |
|           | A    | REDRAWN IN SOLIDWORKS, KW | 3/16/2012 |          |

.63 [16]  
 6.625 [168.3]  
 6.41 [162.7]  
 .866 [22]  
 .401 [10.2]  
 .980 [24.9]  
 .433 [11]  
 .500 [12.7]  
 3.314 [84.2]  
 6.125 [155.6]

M4X0.7 -6H X .25 (6.4) DP  
BOTTOM TAP  
(3) PLACES

ELECTRICAL CABLE, 10 FT. LG  
(4) CONDUCTOR, 22 AWG  
WITH FLYING LEADWIRE ENDS.

LIGHTED AREA

NC

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|                                      |         |                      |      |   |           |
|--------------------------------------|---------|----------------------|------|---|-----------|
| UNLESS OTHERWISE SPECIFIED:          |         | NAME                 | DATE | <b>METAPHASE TECHNOLOGIES, INC.</b><br><br>TITLE:<br><b>FRONT LIGHT, LINEAR, .5 X 6 INCH</b><br><br>SIZE DWG. NO. REV<br><b>B LFL1X6 A</b><br>SCALE: NTS WEIGHT: SHEET 1 OF 1 |           |
| DIMENSIONS ARE IN INCHES             |         | DRAWN                | KW   |   | 3/16/2012 |
| TOLERANCES:                          |         | CHECKED              |      |   |           |
| FRACTIONAL ±1/64                     |         | ENG APPR.            |      |   |           |
| ANGULAR: MATCH 1/2° MIN 1/2°         |         | MFG APPR.            |      |   |           |
| TWO PLACE DECIMAL ±.01               |         | G.A.                 |      |   |           |
| THREE PLACE DECIMAL ±.005            |         | COMMENTS:            |      |   |           |
| INTERPRET GEOMETRIC TOLERANCING PER: |         |                      |      |   |           |
| MATERIAL:                            |         |                      |      |   |           |
| NEXT ASSY                            | USED ON | FINISH               |      |   |           |
| APPLICATION                          |         | DO NOT SCALE DRAWING |      |   |           |