

MetaBright™ Linear Front Light

Model#: MB-LFL1X4



- 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-LFL1X4-W-24 | White 5500K | 24 volt power supply available upon request. | Current Consumption | 0.2A |
| MB-LFL1X4-R-24 | Red 630nm | | Housing | Aluminum |
| MB-LFL1X4-B-24 | Blue 455nm | | Finish | Anodized |
| MB-LFL1X4-G-24 | Green 530nm | | Intensity Uniformity | +/-5% |
| MB-LFL1X4-IRN-24 | Infrared 850nm | | Operating Temperature | 120° F Max |
| MB-LFL1X4-IRL-24 | Infrared 880nm | | Illuminance | 120,000 Lux |
| MB-LFL1X4-UVL-24 | UV 395nm | | Compliance | CE/RoHS |
| MB-LFL1X4-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 |
|-------------------------------|---|
| 0.63in x 4 in 16mm x 104mm | 4.33in x .86in x .86in 110mm x 22mm x 22mm |

ORDERING INFORMATION:

• M B - L F L 1 X 4 - - 2 4 -

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

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Vision Light Tech B.V.

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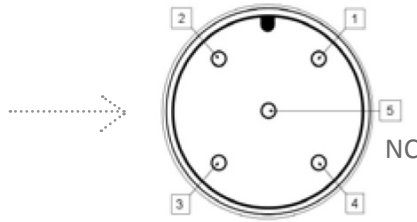


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M12 Connector

| 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 | |

Dimensions: 4.331 [110], .866 [22], .401 [10.2], .980 [24.9], .433 [11], .63 [16], 4.11 [104.4], .500 [12.7], 2.168 [55.1], 3.831 [97.3]

Labels: LIGHTED AREA, ELECTRICAL CABLE, 10 FT. LG (4) CONDUCTOR, 22 AWG WITH FLYING LEADWIRE ENDS., M4X0.7 -6H X .25 (6.4) DP BOTTOM TAP (3) PLACES

| | | | | | |
|--------------------------------------|--|----------------------|------|--|-----------|
| UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | METAPHASE TECHNOLOGIES, INC. TITLE: FRONT LIGHT, LINEAR, .5 X 4 INCH SIZE DWG. NO. REV B LFL1X4 A SCALE: 1:1 WEIGHT: SHEET 1 OF 1 | |
| DIMENSIONS ARE IN INCHES | | DRAWN | KW | | 3/16/2012 |
| TOLERANCES | | CHECKED | | | |
| FRACTIONALS ±1/64 | | ENG APPR. | | | |
| ANGULAR: MACH ±2° MEND ±5° | | MFG APPR. | | | |
| TWO PLACE DECIMAL ±.01 | | G.A. | | | |
| THREE PLACE DECIMAL ±.005 | | COMMENTS: | | | |
| INTERPRET GEOMETRIC TOLERANCING PER: | | | | | |
| MATERIAL | | FINISH | | | |
| NEXT ASSY | | USED ON | | | |
| APPLICATION | | DO NOT SCALE DRAWING | | | |

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