

MetaBright™ Linear Front Light

Model#: MB-LFL505



- 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-LFL505-W-24 | White 5500K | 24 volt power supply available upon request. | Current Consumption | 1.45A @ 24VDC |
| MB-LFL505-R-24 | Red 630nm | | Housing | Aluminum |
| MB-LFL505-B-24 | Blue 455nm | | Finish | Anodized |
| MB-LFL505-G-24 | Green 530nm | | Intensity Uniformity | +/-5% |
| MB-LFL505-IRN-24 | Infrared 850nm | | Illuminance | 120,000 Lux |
| MB-LFL505-IRL-24 | Infrared 880nm | | Operating Temperature | 120° F Max |
| MB-LFL505-UVL-24 | UV 395nm | | Compliance | CE/RoHS |
| MB-LFL505-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 |
|--------------------------------|--|
| 1 in x 20 in 25.4mm x 508mm | 21.14in x 1.13in x 1.25in 537mm x 28.6mm x 31.8mm |

ORDERING INFORMATION:

• M B - L F L 5 0 5 - - 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 | | |

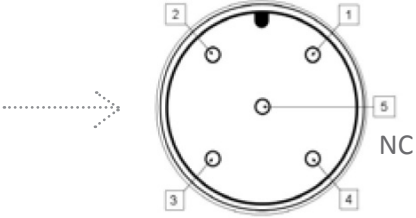
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Wiring Diagram

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

M12 Connector

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

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

10.57 [268.5] 21.14 [537] 1.13 [28.6] 1.92 [48.8]

1.25 [31.8] .37 [9.3] .56 [14.3] .52 [13.2]

#8-32 UNC X 5/16 DP BOTTOM TAP (2) PLACES BOTH SIDES (4) HOLES TOTAL

| REVISIONS | | | | |
|-----------|------|-------------------------|----------|----------|
| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
| | B | REVISED AND REDRAWN, KW | 11-29-11 | |

| | | | | |
|--------------------------------------|--|------|------------|----------------------------------|
| UNLESS OTHERWISE SPECIFIED: | | NAME | DATE | METAPHASE TECHNOLOGIES, INC. |
| DIMENSIONS ARE IN INCHES | | KW | 11/28/2011 | TITLE: |
| TOLERANCES: | | | | FRONT LIGHT, LINEAR, 2 X 20 INCH |
| FRACTIONAL ± | | | | |
| ANGULAR: MACH ± BEND ± | | | | |
| TWO PLACE DECIMAL ± | | | | |
| THREE PLACE DECIMAL ± | | | | |
| INTERPRET GEOMETRIC TOLERANCING PER: | | | | |
| MATERIAL: | | | | |
| FINISH: | | | | |
| APPLICATION: | | | | |
| DO NOT SCALE DRAWING | | | | |

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SIZE DWG. NO. REV
B LFL501 **B**
SCALE: NTS WEIGHT: SHEET 1 OF 1