

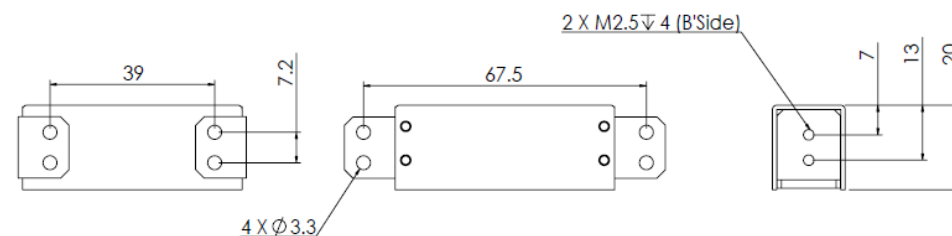
Bar Light

FLDL-i44X15

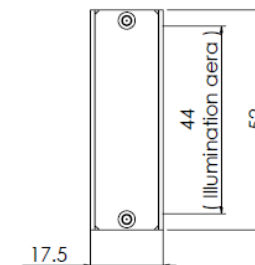
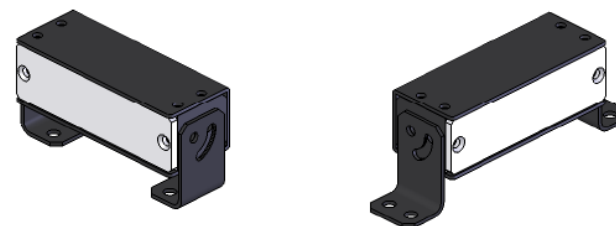
Lighting Picture



Lighting Dimension



FLDL-i44X15 with Mounting Brackets (Optional)



| Mechanical Information | |
|---------------------------|------------------------------|
| Casing Material | Metal + Diffuser |
| Storage Temperature Range | Temp 0-35°C, Humidity 20-85% |
| Weight | 40 g |
| Lighting Dimension, WxLxH | 17.5 x 52.0 x 20.0 mm |
| IP Rating | IP30 |

Unit in mm



FLDL-i44x15

| Optical Information | | | | | | | | |
|------------------------------|---------------|-----------------|-------------|------------|----------------|-----------|----------|----------------|
| Led Color | RED (SR/SR24) | InfraRed (IR24) | GREEN (G12) | BLUE (B12) | WHITE (W12) | GREEN (G) | BLUE (B) | WHITE (W) |
| Wavelength | 626nm | 875nm | 525nm | 470nm | xy=(0.31,0.32) | 525nm | 470nm | xy=(0.31,0.32) |
| Illumination (number of LED) | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Illumination Area | 44 x 15 mm | | | | | | | |
| Led Package | T1 3mm | | | | | | | |
| Eye Safety (EN 62471:2008) | Exempt Group | | | | | | | |

| Electrical Information | SR | G12/B12/W12 | SR24 | IR24 | G/B/W |
|---|------------|-------------|------------|------------|------------|
| Lighting Supply Voltage (constant voltage mode) | 12V ± 2% | | 24V ± 2% | | |
| Supply Ripple Voltage | ≤ Vs ± 5% | | | | |
| Reverse Battery Protection | YES | | | | |
| Typical Lighting Forward voltage, Vf (for zero internal resistor value) | 11.4V | 9.0V | 20.0V | 21.0V | 18.0V |
| Continuous Current | 0.10A(MAX) | 0.20A(MAX) | 0.09A(MAX) | 0.05A(MAX) | 0.10A(MAX) |
| Power Consumption | 1.20 W | 2.40 W | 2.16 W | 1.20 W | 2.40 W |
| Lighting casing temperature, Operating after 60 minutes | 42°C | 50°C | 46°C | 45°C | 50°C |

| Strobe Mode Specification | SR | G12/B12/W12 | SR24 | IR24 | G/B/W |
|--|--|-------------|--|------------|------------|
| Max. Lighting Supply Voltage (Constant voltage power supply) | Pulsing at 12VDC to 24VDC, 0-10% Duty Cycle Recommended at 15VDC | | Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC | | |
| Pulse Current, (Max. 10msec) (Constant current power supply) | 0.25A(MAX) | 0.50A(MAX) | 0.23A(MAX) | 0.13A(MAX) | 0.25A(MAX) |
| Max. Trigger Pulse Duration, msec | 10 msec | | | | |
| Duty Cycle | 0 - 10% | | | | |

| Ordering Option | |
|--|--|
| FLDL-i44x15-SR/SR24/IR24/G12/B12/W12/G/B/W | With resistor to limit the current (Use in both constant voltage/ current power supply) |
| FLDL-i44x15-SR/SR24/IR24/G12/B12/W12/G/B/W-0 | Internal resistor value= zero ohms (only use in constant current power supply) |



| Connection | SR/G12/B12/W12 | | | | SR24/IR24/G/B/W | | | |
|---------------------------------|----------------|--------|-------------|---|-----------------|--------|-------------|---|
| Connector Type (Default): | JST SMR-02V | | | | JST SMR-03V | | | |
| | Pin | Signal | Cable Color |  | Pin | Signal | Cable Color |  |
| | 1 | LED + | Black/White | | 1 | LED + | Black/White | |
| | 2 | LED - | Black | | 2 | N.C. | --- | |
| | | | | | 3 | LED - | Black | |
| Cable Length out from lighting: | 300 mm | | | | | | | |

| Additional Information | SR/SR24/G12/B12/W12/G/B/W/IR24 |
|---|--|
| Additional Cooling Method | Attached to machine part for better heat dissipation |
| Life span in continuous mode | 20,000 hours |
| Life span in strobe light mode Lighting drop to 50% intensity (at 25°C ambient temperature) | 50,000 hours |
| Intensity Controller Selection | PSA-Series, PSD-Series, LIC-Series |
| CE Conformity | YES |
| RoHS Compliance | YES |
| ISO 9001:2008 | SG11/03751 |

| Application | |
|--------------------------|-----------|
| Optimal Working Distance | 10-100 mm |



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