

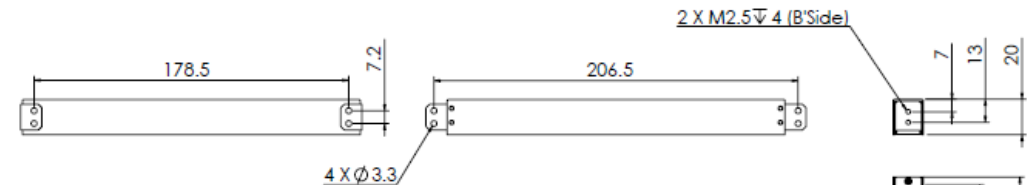
# Bar Light

## FLDL-i180x15

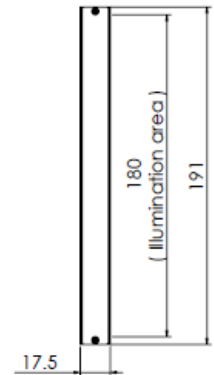
### Lighting Picture



### Lighting Dimension



### FLDL-i180X15 with Mounting Bracket ( Optional )



| Mechanical Information    |                              |
|---------------------------|------------------------------|
| Casing Material           | Metal + Diffuser             |
| Storage Temperature Range | Temp 0-35°C, Humidity 20-85% |
| Weight                    | 130g                         |
| Lighting Dimension, WxLxH | 17.5 x 191.0 x 20.0 mm       |
| IP Rating                 | IP 30                        |

\*NOTE : UV light come without diffuser\*

Unit in mm





| Optical Information          |               |                   |           |          |                |   |
|------------------------------|---------------|-------------------|-----------|----------|----------------|---|
| Led Color                    | RED (SR/SR24) | InfraRed(IR/IR24) | GREEN (G) | BLUE (B) | WHITE (W)      | Ultra Violet<br>(UV12-375/UV12-400/<br>UV24-375/UV24-400) |
| Wavelength                   | 626nm         | 875nm             | 525nm     | 470nm    | xy=(0.31,0.32) | 375nm / 400nm   |
| Illumination (number of LED) | 120           | 105               | 105       | 105      | 105            | 54  |
| Illumination Area            | 180 x 15 mm   |                   |           |          |                |   |
| Led Package                  | T1 3mm        |                   |           |          |                | T1 ¾ 5mm  |
| Eye Safety (EN 62471:2008)   | Exempt Group  |                   |           |          |                | RG3   |

| Electrical Information   | SR          | IR          | UV12-375<br>UV12-400 | SR24        | IR24        | G/B/W       | UV24-375<br>UV24-400 |
|--|-------------|-------------|----------------------|-------------|-------------|-------------|----------------------|
| Lighting Supply Voltage<br>(constant voltage mode)                         | 12V ± 2%    |             |                      | 24V ± 2%    |             |             |                      |
| Supply Ripple Voltage  | ≤ Vs ± 5%   |             |                      |             |             |             |                      |
| Reverse Battery Protection   | YES         |             |                      |             |             |             |                      |
| Typical Lighting Forward voltage, Vf<br>(for zero internal resistor value) | 11.4 V      | 9.8 V       | 10.5 V               | 22.8 V      | 21.0 V      | 21.0 V      | 21.0 V               |
| Continuous Current   | 0.72A (MAX) | 0.38A (MAX) | 0.36A (MAX)          | 0.36A (MAX) | 0.18A (MAX) | 0.30A (MAX) | 0.18A (MAX)          |
| Power Consumption  | 8.64 W      | 4.50 W      | 4.32 W               | 8.64 W      | 4.20 W      | 7.20 W      | 4.32 W               |
| Lighting casing temperature,<br>Operating after 60 minutes                 | 50°C        | 45°C        | 42°C                 | 45°C        | 45°C        | 50°C        | 42°C                 |

| Strobe Mode Specification                                       | SR   | IR          | UV12-375<br>UV12-400 | SR24   | IR24        | G/B/W       | UV24-375<br>UV24-400 |
|---|--|-------------|----------------------|--|-------------|-------------|----------------------|
| Max. Lighting Supply Voltage<br>(Constant voltage power supply) | Pulsing at 12VDC to 24VDC,<br>0-10% Duty Cycle<br>Recommended at 15VDC |             |                      | Pulsing at 24VDC to 48VDC,<br>0-10% Duty Cycle<br>Recommended at 36VDC |             |             |                      |
| Pulse Current, (Max. 10msec)<br>(Constant current power supply) | 1.80A (MAX)  | 0.94A (MAX) | 0.90A (MAX)          | 0.90A (MAX)  | 0.44A (MAX) | 0.75A (MAX) | 0.45A (MAX)          |
| Max. Trigger Pulse Duration, msec                               | 10 msec  |             |                      |  |             |             |                      |
| Duty Cycle  | 0 - 10%  |             |                      |  |             |             |                      |

| Ordering Option  |  |
|--|--|
| FLDL-i180x15-SR/SR24/IR/IR24/G/B/W/UV12-375/UV12-400/UV24-375/UV24-400   | With resistor to limit the current<br>(Use in both constant voltage/ current power supply) |
| FLDL-i150x15-SR/SR24/IR/IR24/G/B/W/UV12-375/UV12-400/UV24-375/UV24-400-0 | Internal resistor value= zero ohms<br>(only use in constant current power supply)          |



| Connection                      |     | SR/IR/UV12-375/UV12-400 |             |   | SR24/IR24/G/B/W/UV24-375/UV24-400 |             |   |
|---------------------------------|-----|-------------------------|-------------|---|-----------------------------------|-------------|---|
| 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/G/B/W/IR/IR24                                | UV12-375/UV12-400<br>UV24-375/UV24-400 |
|---|--|--|--|
| Additional Cooling Method   |  | Attached to machine part for better heat dissipation |  |
| Life span in continuous mode  |  | 20,000 hours   | 5,000 hours                            |
| Life span in strobe light mode<br>Lighting drop to 50% intensity<br>(at 25°C ambient temperature) |  | 50,000 hours   | 10,000 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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