

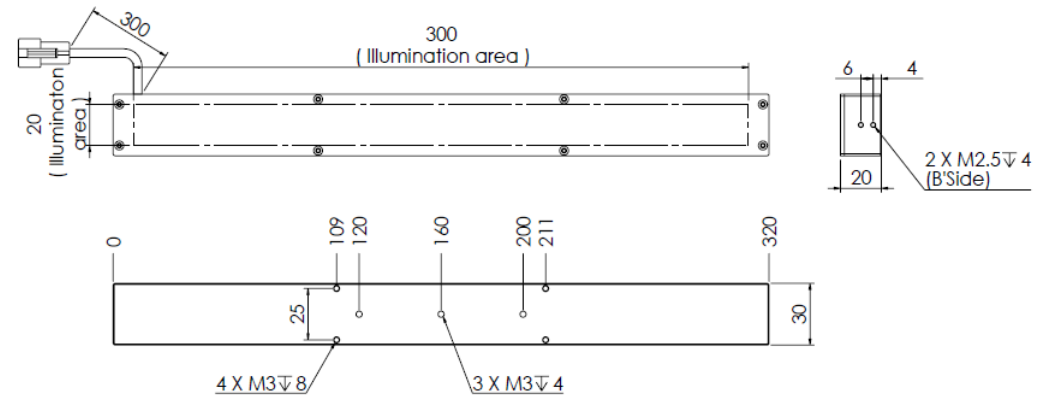
# Bar Light

## FLDL-i300x20

### Lighting Picture



### Lighting Dimension



| Mechanical Information    |                              |
|---------------------------|------------------------------|
| Casing Material           | Aluminium + Diffuser         |
| Storage Temperature Range | Temp 0-35°C, Humidity 20-85% |
| Weight                    | 300g                         |
| Lighting Dimension, WxLxH | 30.0 x 320.0 x 20.0 mm       |
| IP Rating                 | N/A                          |

Unit in mm



FLDL-i300x20

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Form No: SOP-7.3.3 / Rev 1.6 / Date: 2022-10-25



| Optical Information          |               |               |           |          |                |                |
|------------------------------|---------------|---------------|-----------|----------|----------------|----------------|
| Led Color                    | RED (SR/SR24) | InfraRed (IR) | GREEN (G) | BLUE (B) | WHITE (W)      | WHITE (W12)    |
| Wavelength                   | 626nm         | 875nm         | 525nm     | 470nm    | xy=(0.31,0.32) | xy=(0.31,0.32) |
| Illumination (number of LED) | 240/242       | 252           | 252       | 252      | 252            | 252            |
| Illumination Area            | 300 x 20 mm   |               |           |          |                |                |
| Led Package                  | T1 3mm        |               |           |          |                |                |
| Eye Safety (EN 62471:2008)   | Exempt Group  |               |           |          |                |                |

| Electrical Information  | SR          | IR          | W12         | SR24        | 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) | 11.8V       | 9.8V        | 9.0V        | 22.0 V      | 21.0 V      |
| Continuous Current  | 0.80A (MAX) | 0.90A (MAX) | 1.68A (MAX) | 0.66A (MAX) | 0.72A (MAX) |
| Power Consumption   | 9.60 W      | 10.80 W     | 20.16 W     | 15.84 W     | 17.28 W     |
| Lighting casing temperature, Operating after 60 minutes                 | 60°C        | 55°C        | 60°C        | 42°C        | 60°C        |

| Strobe Mode Specification                                    | SR  | IR          | W12        | SR24  | G/B/W       |
|--|---|-------------|------------|---|-------------|
| Max. Lighting Supply Voltage (Constant voltage power supply) | Pulsing at 12VDC to 24VDC, 0-10% Duty Cycle<br>Recommended at 15VDC |             |            | Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle<br>Recommended at 36VDC |             |
| Pulse Current, (Max. 10msec) (Constant current power supply) | 2.00A (MAX)   | 2.25A (MAX) | 4.20A(MAX) | 1.65A (MAX)   | 1.80A (MAX) |
| Max. Trigger Pulse Duration, msec                            | 10 msec   |             |            |   |             |
| Duty Cycle   | 0 - 10%   |             |            |   |             |

| Ordering Option                     |  |
|-------------------------------------|--|
| FLDL-i300x20-SR/SR24/IR/G/B/W       | With resistor to limit the current<br>(Use in both constant voltage/ current power supply) |
| FLDL-i300x20-SR/SR24/IR/G/B/W/W12-0 | Internal resistor value= zero ohms<br>(only use in constant current power supply)          |



| Connection                      | SR/IR/W12   |        |             |   | SR24/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/IR/G/B/W                                     |
|---|--|
| 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<br>Lighting drop to 50% intensity<br>(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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