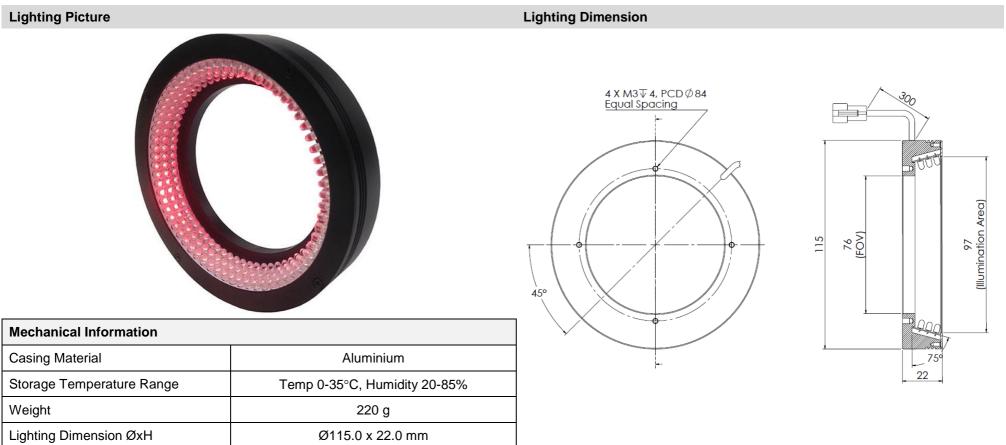




### Low Angle Ring Light

# FLDR-i100LA3



Unit in mm



IP Rating

N/A





| Optical Information          |              |                    |              |          |                |
|------------------------------|--------------|--------------------|--------------|----------|----------------|
| Led Color                    | RED(SR/SR24) | InfraRed (IR/IR24) | GREEN(G)     | BLUE (B) | WHITE (W)      |
| Wavelength                   | 626nm        | 875nm              | 525nm        | 470nm    | xy=(0.31,0.32) |
| Illumination (number of LED) | 200/198      | 203/210            | 203          | 203      | 203            |
| Illumination Area            |              |                    | Ø97mm        |          |                |
| Led Package                  |              |                    | T1 3mm       |          |                |
| Eye Safety (EN 62471:2008)   |              |                    | Exempt Group |          |                |

| Electrical Information                                                  | SR          | IR          | SR24        | IR24        | G/B/W        |  |
|-------------------------------------------------------------------------|-------------|-------------|-------------|-------------|--------------|--|
| Lighting Supply Voltage<br>(constant voltage mode)                      | 12V ± 2%    |             | 24V ± 2%    |             |              |  |
| Supply Ripple Voltage                                                   | ≤ Vs        | ± 5%        |             |             |              |  |
| Reverse Battery Protection                                              | YE          | ES          |             |             |              |  |
| Typical Lighting Forward voltage, Vf (for zero internal resistor value) | 10.0 V      | 9.8V        | 23.1 V      | 19.6 V      | 21.0 V       |  |
| Continuous Current                                                      | 1.20A (MAX) | 0.73A (MAX) | 0.54A (MAX) | 0.35A (MAX) | 0.58 A (MAX) |  |
| Power Consumption                                                       | 14.40 W     | 8.70 W      | 12.96 W     | 8.40 W      | 13.92 W      |  |
| Lighting casing temperature,<br>Operating after 60 minutes              | 50°C        | 46°C        | 50°C        | 46°C        | 63°C         |  |

| Strobe Mode Specification         | SR             | IR           | SR24                       | IR24        | G/B/W       |  |  |
|-----------------------------------|----------------|--------------|----------------------------|-------------|-------------|--|--|
| Max. Lighting Supply Voltage      | Pulsing at 12V | DC to 24VDC, | Pulsing at 24VDC to 48VDC, |             |             |  |  |
| (Constant voltage power supply)   | 0-10% D        | uty Cycle    | 0-10% Duty Cycle           |             |             |  |  |
|                                   | Recommend      | ed at 15VDC  | Recommended at 36VDC       |             |             |  |  |
| Pulse Current, (Max. 10msec)      | 3.00A (MAX)    | 1.81A (MAX)  | 1.35A (MAX)                | 0.88A (MAX) | 1.45A (MAX) |  |  |
| (Constant current power supply)   | 3.00A (MAX)    |              | 1.55A (IVIAA)              | 0.007 (MAX) | 1.45A (MAX) |  |  |
| Max. Trigger Pulse Duration, msec | 10 msec        |              |                            |             |             |  |  |
| Duty Cycle                        |                |              | 0 - 10%                    |             |             |  |  |

| Ordering Option                      |                                                      |
|--------------------------------------|------------------------------------------------------|
| FLDR-i100LA3-SR/SR24/IR/IR24/G/B/W   | With resistor to limit the current                   |
| FLDR-1100LA3-3R/3R24/1R/1R24/3/8/10  | (Use in both constant voltage/ current power supply) |
| FLDR-i100LA3-SR/SR24/IR/IR24/G/B/W-0 | Internal resistor value= zero ohms                   |
| FLDR-1100LA3-3R/3R24/IR/IR24/9/0/0/0 | (only use in constant current power supply)          |







| Connection                      | SR/IR       |        |             | 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: | 300mm       |        |             |                 |     |        |             |         |

| Additional Information         | SR/SR24/G/B/W/IR/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 | 50,000 hours                                         |
| (at 25°C ambient temperature)  |                                                      |
| Intensity Controller Selection | PSA-Series, PSD-Series, LIC-Series                   |
| CE Conformity                  | YES                                                  |
| RoHS Compliance                | YES                                                  |
| ISO 9001:2008                  | SG11/03751                                           |

| Application              |         |
|--------------------------|---------|
| Optimal Working Distance | 0-30 mm |







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