



Direct Ring Light

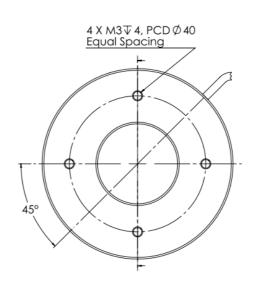
FLDR-Si56A

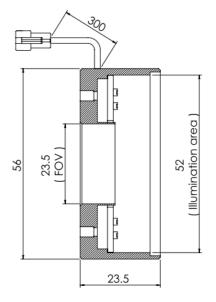
Lighting Picture

Lighting Dimension



| Mechanical Information | | |
|---------------------------|------------------------------|--|
| Casing Material | Aluminium | |
| Storage Temperature Range | Temp 0-35°C, Humidity 20-85% | |
| Weight | 60 g | |
| Lighting Dimension, ØxH | Ø56.0x 23.5mm | |
| IP Rating | N/A | |





Unit in mm







| Optical Information | | | |
|------------------------------|-----------|--------------|----------------|
| Led Color | GREEN (G) | BLUE (B) | WHITE (W) |
| Wavelength | 525nm | 470nm | xy=(0.31,0.32) |
| Illumination (number of LED) | 35 | 35 | 35 |
| Illumination Area | | Ø52mm | |
| Led Package | | SMD | |
| Eye Safety (EN 62471:2008) | | Exempt Group | |

| Electrical Information | G/B/W |
|--------------------------------------|-------------|
| Lighting Supply Voltage | 24V ± 2% |
| (constant voltage mode) | Z4V ± Z /0 |
| Supply Ripple Voltage | ≤ Vs ± 5% |
| Reverse Battery Protection | YES |
| Typical Lighting Forward voltage, Vf | 21.0 V |
| (for zero internal resistor value) | 21.0 V |
| Continuous Current | 0.10A (MAX) |
| Power Consumption | 2.40 W |
| Lighting casing temperature, | 43°C |
| Operating after 60 minutes | 45°0 |

| Strobe Mode Specification | G/B/W | | |
|-----------------------------------|----------------------------|--|--|
| Max. Lighting Supply Voltage | Pulsing at 24VDC to 48VDC, | | |
| (Constant voltage power supply) | 0-10% Duty Cycle | | |
| | Recommended at 36VDC | | |
| Pulse Current, (Max. 10msec) | O OFA (MAV) | | |
| (Constant current power supply) | 0.25A (MAX) | | |
| Max. Trigger Pulse Duration, msec | 10 msec | | |
| Duty Cycle | 0 - 10% | | |

| Ordering Option | |
|--------------------|--|
| FLDR-Si56A-G/B/W | With resistor to limit the current |
| | (Use in both constant voltage/ current power supply) |
| FLDR-Si56A-G/B/W-0 | Internal resistor value= zero ohms |
| | (only use in constant current power supply) |







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

| Additional Information | 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 | | | |
| 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 | 30-200 mm |







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