

Bar Light

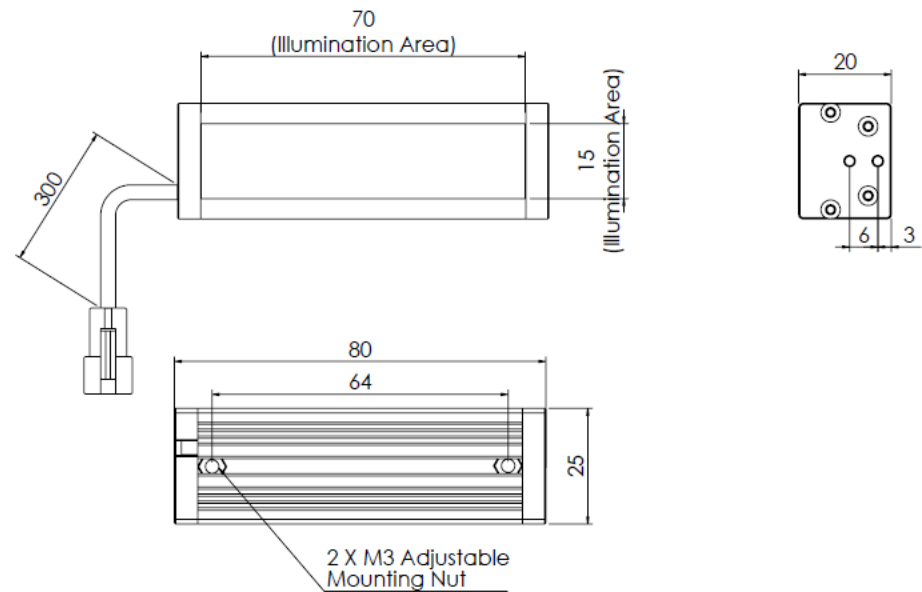


F2DL-Si70x15

Lighting Picture



Lighting Dimension



Unit in mm

| Mechanical Information | |
|---------------------------|---------------------------------|
| Casing Material | Aluminium + Diffuser (Optional) |
| Weight | 79g |
| Operating Temperature | 0°C to 40°C, Humidity 20%-85% |
| Storage Temperature | -20°C to 60°C, Humidity 20%-85% |
| Lighting Dimension, WxLxH | 25.0 x 80.0 x 20.0mm |
| IP Rating | IP40 |



| Led Colour | RED (R24) | GREEN (G) | BLUE (B) | WHITE (W) |
|--------------------------------|--------------|-----------|----------|----------------|
| Optical Information | | | | |
| Wavelength / Color temperature | 625nm | 525nm | 470nm | xy=(0.31,0.32) |
| Illumination (Number of LED) | 40 | 42 | | |
| Illumination Area | 70x15mm | | | |
| Led Package | SMD | | | |
| Eye Safety (EN 62471:2008) | Exempt Group | | | |
| Optimal Working Distance | 10-100 mm | | | |

| Continuous Mode | Voltage Drive (With resistor) | | Current Drive (Without resistor) | |
|------------------------------|-------------------------------|-------------|----------------------------------|----------------|
| | R24 | G/B/W | R24 | G/B/W |
| Supply Voltage To Controller | 24VDC \pm 2% | | 21VDC \pm 2% | 22VDC \pm 2% |
| Lighting Forward Voltage, Vf | 20.0 V | 21.0 V | 20.0 V | 21.0 V |
| Max. Current | 0.16A (MAX) | 0.12A (MAX) | 0.16A (MAX) | 0.12A (MAX) |
| Max. Power | 3.84W | 2.88W | 3.36W | 2.64W |

| Strobe Mode | Voltage Drive | | Current Drive | |
|------------------------------|--|-------------|------------------|------------------|
| | R24 | G/B/W | R24 | G/B/W |
| Max. Lighting Supply Voltage | Pulsing at 24VDC to 48VDC, Recommended at 36VDC | | Pulsing at 21VDC | Pulsing at 22VDC |
| Max. Current | 0.40A (MAX) | 0.30A (MAX) | 0.40A (MAX) | 0.30A (MAX) |
| Max. Trigger Pulse Duration | 10 msec | | | |
| Duty Cycle | < 10% | | | |

| Ordering Part Number | Controller Type | Description |
|--------------------------|-----------------|---|
| F2DL-Si70x15-R24/G/B/W | Voltage Drive | With Resistor (Use in both constant voltage/ current power supply) |
| F2DL-Si70x15-R24/G/B/W-0 | Current Drive | Without Resistor (0 Ohm) (Only use in constant current power supply) |



| Connection | | (Voltage & Current drive) | | |
|---------------------------------|-----|---------------------------|-------------|--|
| Connector Type (Default): | Pin | Signal | Cable Color | |
| | 1 | LED + | Black/White | |
| | 2 | N.C. | --- | |
| | 3 | LED - | Black | |
| Cable Length out from lighting: | | 300 mm | | |



| Additional Information | Details |
|--|--|
| 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 |
| Supply Ripple Voltage | $\leq V_s \pm 5\%$ |
| Reverse Battery Protection | YES |
| Cooling Method | Natural air-cooling |
| Additional Cooling Method | Attached to machine part for better heat dissipation |
| Intensity Controller Selection | PSA-Series, PSD-Series, LIC-Series |
| CE Conformity | YES |
| ISO 9001:2015 | MY11/00845 |



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