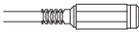
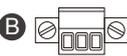


A. Contents

- FL50 - 50W LED Illuminator
- 24V DC Power Supply
- IEC 60320 C13 to NEMA 5-15 AC Power Cable



B. Connector and Operational Diagram

Connector	Description
	DC Input Cable with 2.1mm x 5.5mm DC Connector
Dimming Interface	Description
 or 	A Manual Control or B 0-10V Analog

C. Set-up

1. Connect DC input cable from the FL50 to the output end of the 24V DC power source.
2. Use power cable to connect the input end of the 24V DC power source to AC.
3. Place 30mm fiber bundle into light output port and secure with thumb screw.
4. If stranded loose fibers are to be installed in one FL50, use an appropriate ACS30 fiber adapter to secure the fibers to the output port, and follow recommended manufacturer instructions for fiber bundling.

D. Installation Requirements

1. Install such that the vents on the sides of the FL50 are not obstructed.
2. If installed in an enclosure, ensure that a minimum of 16 CFM of airflow is allowed into and out of the enclosure.
3. The FL50 can be mounted to any surface under a cabinet using the four screw holes on the bottom of the fixture. The fixture can be mounted on four M4x0.7 screws in a 50mmx115mm pattern such that the screws do not protrude into the fixture by more than 8mm.

E. Dimming

- Manual Control

When the dimmer indicator is turned to the maximum counterclockwise position, the light is in an off state. Rotate dimmer clockwise to increase the light intensity and counterclockwise to decrease the light intensity.

- 0-10V Analog

In addition to the power supply (24 VDC/2.1A) connected via the DC socket, an additional connector is supplied for the connection of the dimming signal cable. With this 0-10V model, there is no preference for any controller. There are 3 terminals for this 0-10V interface: +10V source, + sink, - sink. The FL50 can be dimmed using any 0-10V analog dimmer that is in compliance with IEC 60929 Annex E.2 or ANSI E1.3. When installed correctly, the dimmer will apply a 0-10V potential to the + sink terminal, relative to the - sink terminal. The brightness of the light will correspond to the voltage, where 10V corresponds to 100% brightness and 0V corresponds to 0% brightness. DC voltage is sensitive to electromagnetic disturbance and long distance. Shielding is recommended for electromagnetic disturbance protection, however using a twisted pair of 24 AWG wire or larger is sufficient. The wire can extend up to 500ft, but only 200ft is recommended.

F. Absolute Maximum Rating

PARAMETER	RATING
FL50 Input voltage	24V DC (±5%)
FL50 Input Current	2.1 A max
Operating Temp	0°C to 40°C
Storage Temp	-40°C to 70°C
IP Rating	IP 20
Weight	1.25 lbs
Acoustic Noise	13.8 dBA