LO-35 Series
35-90W LED Light Source family

A Industrial LED light engine up to 4x brighter than halogen!*

* Configuration dependent; assumes over-driving the unit in a pulsed configuration

Independent on/off switch to maintain intensity setting.

Port accepts all major device manufacturer's cables;

High temperature shut-off indicator.

Analog dimmer controls output intensity from 0% to 100% output.

Back of FTIII24015 with optional communication

Ethernet port (optional)
Fused IEC receptacle
25pin RS232/485/TTL/Analog input (optional)

LO series light sources are the first LED light source more powerful than Halogen.

Input range:	100 - 240 Vac, 50-60Hz
Power consumption	100w Max
Inrush current:	40 A max., cold start @ 25 °C
Fuse	3A Type F Quick Blow
Electrical Safety	UL 153, UL8750, CSA C22.2#12, #250.13 CE
Operating Temp	0 to 40 Deg C
Storage Temp	-40 to 85 Deg C
Humidity	10 -85% Rel H Non-condensing

* -Specifications subject to change without notice

OPTIONS

Specify Suffix	Description
E	Wired remote
S	Fast Strobe
-	Competitor adapter P/N (see pg 2 for selections)
P	Rs232
PE	Ethernet
P4	RS485

FEATURES

· Proprietary collection optics and cutting edge LED technology combine to outperform 150W halogen EKE lamps in power, life, and color temperature with fiber bundle diameters up to 14mm.

· Long life (50,000 hours) solid state device eliminates lamp change for up to 24 years!

· Daylight white 6500K color temperature.

· Uses 33% less power to produce up to 4X output power (Model and drive configuration dependent)

· No wasted IR component.

· 0-100% continuous intensity control (256 steps).

· Less than 15% decline in output over the usable life.

· Default adapter size 1". Individual adapters permit the use of all fiber optic brands.

· Thermal protection via on-board sensor.

· Optional Ethernet/RS232/RS485 with TTL trigger offers complete remote control including strobe, over-driving and intensity.

Overall Height: 5" (127 mm)
Overall Width: 7.625" (194 mm)
Overall Depth: 7.75"(197 mm)
Unit Weight: 7.9lbs. (3.6 kg) including cord.

· OEM configurations available.

P/N	Description	Maximum Aperture	Voltage Cycles	Color Temperature	Power Consumption
FTIII24015	9A Standard industrial LED light source	.550" (14mm)	100-240 50/60Hz	6500K	38W
FTIII24016	15A Standard industrial LED light source	.550" (14mm)	100-240 50/60Hz	6500K	64W
FTIII24017	22A Standard industrial LED light source	.550" (14mm)	100-240 50/60Hz	6500K	95W

Printed in the USA

DATA, COMPONENTS and ACCESSORIES

Ethernet/RS232/485 Communication Interface options for LO35 Series

State-of-the-Art lighting control options include traditional communication connectivity AND the latest wired Ethernet protocol, in a do-it-all standard package!

Rear of FTIII24015 showing RJ45 and DB 25 pin connectors

ADAPTERS

Adapters are designed to position the light guide for maximum coupling efficiency, regardless of light guide manufacturer or style.

P/N	Description
FTIII16867-02	.625 Standard- FTI, Chiu, IT, Techniquip
FTIII16867-17	.472 Schott KL2500 series. (for P/N 157320)
FTIII16867-03	.393 Schott KL1200 series.
FTIII16867-16	.320 Schott KL series.
FTIII16867-04	.240 Schott KL series
FTIII16867-13	.315, StockerYale, DJ, Techniquip(SY)
FTIII16867-14	.625, StockerYale, DJ , Techniquip(SY)
FTIII16867-15	.718, Schott-Fostec
FTIII16867-05	.590 – Moritex, Volpi, DJ
FTIII16867-06	.190 Dolan Jenner B type
FTIII16867-06-IND	.250 FTI Industrial cables
FTIII18233	Connect FTI Standard endtips into .718 Schott
FTIII18233IND	.089 FTI Industrial cables
FTIII21249-1	Adapter, Storz
FTIII21249-2	Adapter, ACMI
FTIII21249-3	Adapter, Wolf
FTIII21249-4	Adapter, Olympus
FTIII21249-5	Adapter, Pilling

Counter Balance

When using a dual gooseneck, this (option E) provides enough weight to keep the unit from tipping over in a free standing condition,

Communication options allow remote setup/control of the light source, which is triggered via smart camera or discretely generated signal.

- Basic wired remote (option E) provides a 25 pin connection point to control on/off and strobe operation from .5mS to continuous-full-on via TTL/OC/dry contact (Delay between signal and full-on is .25mS). Intensity can be set through the front panel or 0-5V remote input (not included). Feature is automatically sensed when plugged into the 25pin port. (over-drive option not available through basic wired remote)

- Fast strobe microprocessor (option S) allows pulse duration as short as 2uS, with overdrive as high as 250%, and can be integrated with wired or RS232/485 communication options.

- RS232 communication (option P) permits remote control/custom configuration of one unit.

- RS485 communication (option P4) permits remote control/unique configuration for up to 127 illuminators.

- RS 232/485 intensity and pulse time settings are stored in on-board flash memory. 0-5 volt input range where 5V is 100% intensity for continuous-on usage and 0V is full off.

  Range of 256 discrete values between 0 and 5V.

  When actuated by intermittent trigger, user controls pulse duration to set intensity, with the ability to overdrive intensity by as much as 250%. Up to 5,000 pulses/second can be accepted. User programming via ASCII commands - command set included.

- Ethernet (Option PE) allows functionality through RJ45 connector using serial interface (RS232/485) and IP addresses.

- All options/modules are installed in the unit housing, and are accessed through the 25pin or the RJ45 adapters on the rear panel. All options come complete with schematics and instructions. Demonstration software is available for some options.

- Configure the model specific for your target application using suffix codes found on the front of this data sheet.

CORPORATE HEADQUARTERS
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