

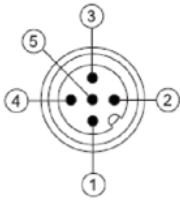

product introduction

The LM Series are the smallest linear lights available with an integrated built in driver. The driver features the new Multi-Drive™ which allows the user to operate this light in either constant ON operation or OverDrive depending on wiring method. The industry standard 5 Pin M12 connector makes for simple wiring and the multiple lensing options gives this light a broad range of illumination area. The 0-10V analog control gives the user total control over intensity.


product features


- Driver Built In – No External Wiring To A Driver
- 5 Pin M12 Quick Disconnect Cable
- Over-Current Protection
- PNP and NPN Strobe Input
- Continuous Operation or Strobe Mode
- (8) High Output LEDs


constant ON product specs
Wiring configuration for CONSTANT ON operation

	Pin	Function	Signal	Wire Color
	1	Power In	+24VDC	BROWN
	2	NPN	Ground (common)	WHITE
	3	GND	Ground	BLUE
	4	PNP	> 4VDC	BLACK
	5	Intensity Control	1-10VDC	GREY

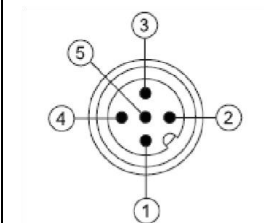
* Some cables use green with yellow stripe for 1-10V adjustment.

* Either a negative NPN or a positive PNP signal, not both must be applied for light to function.

Electrical Input	24 VDC +/- 5%
Current	.18 - .22A <i>NOTE: current is LED color dependent</i>
Wattage	5.3W
Strobe Input	PNP ► +4VDC or greater to activate NPN ► GND (<1VDC) to activate
PNP Line	4mA @ 5VDC 8mA @ 10VDC 15mA @ 24 VDC
NPN Line	10mA @ Common (0VDC)
Continuous Mode	Light will be in continuous mode by leaving signal on strobe input active
Connection	5 pin M12 connector
Lifespan	100,000 hrs
IP Rating	IP65
Certification	CE and RoHS certified
Weight	130g
Ambient Temperature	-40° - 50° C (-40° - 122° F)



Wiring configuration for OverDrive operation

	Pin	Function	Signal	Wire Color
	1	Power In	+24VDC	BROWN
	2	NPN	Sinking Signal	WHITE
	3	GND	Ground	BLUE
	4	PNP	Sourcing Signal	BLACK
	5	OverDrive Signal	Ground	GREY

- * Some cables use green with yellow stripe for 1-10V adjustment.
- * A strobing negative NPN or a positive PNP signal, not both must be applied for light to function.
- * No analog to OverDrive operation.

Electrical Input	24 VDC +/- 5%
Current	1.65 – 2.1A <i>NOTE: current is LED color dependent</i>
Wattage	51.0W
Strobe Input	PNP ► +4VDC or greater to activate NPN ► GND (<1VDC) to activate 5µS LED activation time
PNP Line	4mA @ 5VDC 8mA @ 10VDC 15mA @ 24 VDC
NPN Line	10mA @ Common (0VDC)
OverDrive Mode	Connect Pin 5 to GND (more info. in wiring configuration)
Duty Cycle	Max.10%
Strobe Duration	Max. 125mS



product number key

LM75 – XXX – X

Product Family:
Mini Linear
LM75 Series

Color:
470 - Blue
530 - Green
625 - Red
850 - IR
WHI - White

Lens*:
W – 80° wide

—» Part Number Key

- * Standard 40 degree lens included
- * Wide lens option available

CE and RoHS Compliant



warnings



Attention

Please note that the power requirements are 350mA at 24VDC for constant ON and 1.6A for OverDrive. Failure to supply light with appropriate current will result in non-repeatable lighting. Contact Smart Vision Lights for more information.



mounting & accessories



Housing includes T-slot for easy mounting

Hardware includes:

- (2) M4x16 screws
- (2) M4 nylon nuts



optical performance

LM75-XXX (40° lens)

Working Distance mm (inches)	Pattern (80%-100% measured intensity)	
	mm (Inches)	
0.25m (9.84")	125mm(~4.9") H x 125mm(~4.9") V	
0.5m (19.7")	250mm(~9.8") H x 255mm(10") V	
Typical output performance		Constant ON Illumination (Lux)
Distance = 0.25 meter		OverDrive Illumination (Lux)
		8,300
		41,000
<i>Illumination measurement taken on White Lights – 6500K</i>		

LM75-XXX- W (80° lens)

Working Distance mm (inches)	Pattern (80%-100% measured intensity)	
	mm (Inches)	
0.25m (9.84")	240mm(~9.4") H x 250mm(~9.8") V	
.5m (19.7")	520mm(~20.4") H x 520mm(~20.4") V	
Typical output performance		Constant ON Illumination (Lux)
Distance = 0.25 meter		OverDrive Illumination (Lux)
		2,700
		13,600
<i>Illumination measurement taken on White Lights – 6500K</i>		