

PATLITE

■ LU7 / 70mm - Modular



TYPE 4/4X/13
Indoor Only

LED STROBE
24V Base



This Modular System indicating light is perfect for OEMs that offer different multi-stack versions in their machine design.

SIZE:	70mm diameter
INPUT VOLTAGE	- DC24V
OPTIONS:	- AC90-250V
FUNCTIONS	- Continuous only
AVAILABLE:	- Continuous, Flashing, Alarms
MOUNTING OPTIONS:	Direct mount only: includes three mounting nuts
BODY STYLE:	- Component style, wiring terminals provided - Interchangeable and stackable after purchase
BODY COLOR:	- Beige - Black
TIERS:	1-5 modules can be stacked
MODULE STYLES / COLORS:	- Red / Amber / Green / Blue / Clear - Standard LED Modules - Strobe-flash LED Modules (24V bases only)
ALARMS (FB STYLE ONLY):	- Alarm 1: selectable, single-tone, continuous alarm, 90dB (at 1m) - Alarm 2: selectable, single tone, intermittent (slow beep) alarm, 90dB (at 1m)
RATINGS:	- CE - UL Listed (US) - UL Listed (Canada) - RoHS
PROTECTION:	- IP-65 - Type 4 / 4X / 13 (indoor only)
CONTROL OPTIONS:	- Dry contact closure such as switches or relay contacts - Open-collector transistor (NPN or PNP for DC24V, NPN for AC90-250V) - Direct voltage control for DC24V, continuous and alarm functions only

PART NUMBER GUIDE

Standard Bases

LU7 - 02FB

1. Series

LU7 : 70mm diameter

2. Rated Voltage

02 : DC24V

M2 : AC90-250V

3. Options

Blank : Continuous only

FB : Continuous / Flashing / Alarms

Short Bases

LU7 - 02SK

1. Series

LU7 : 70mm diameter

2. Rated Voltage

02 : DC24V

3. Base / Cap Color

S : Beige (standard)

SK : Black

Modules

LU7 - XE - R

1. Series

LU7 : 70mm diameter

3. Lens Color

R : Red

Y : Yellow

G : Green

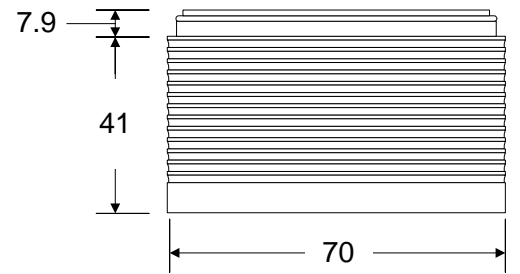
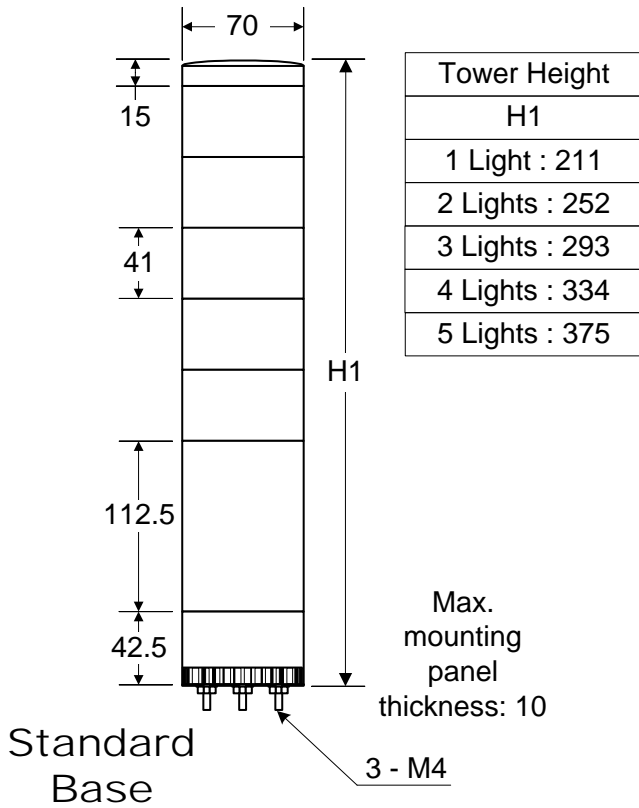
B : Blue

C : Clear

2. Module Style

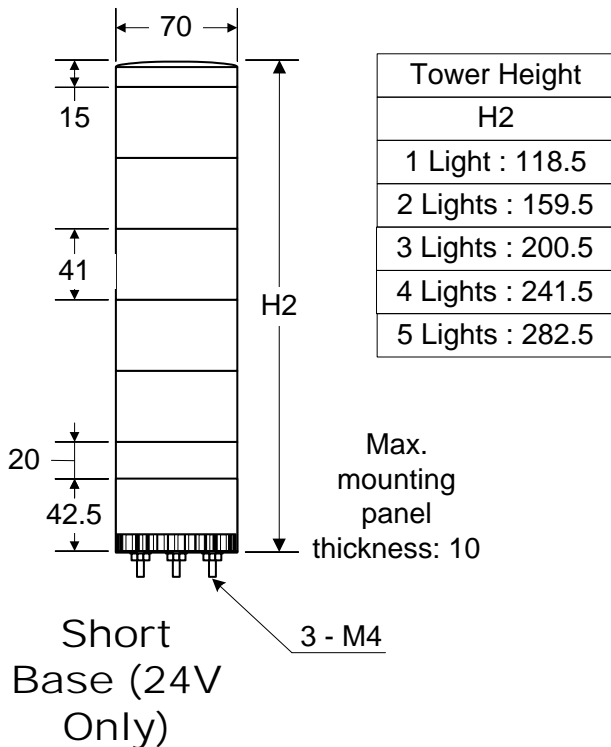
E : Standard LED module

XE : Strobe style LED module

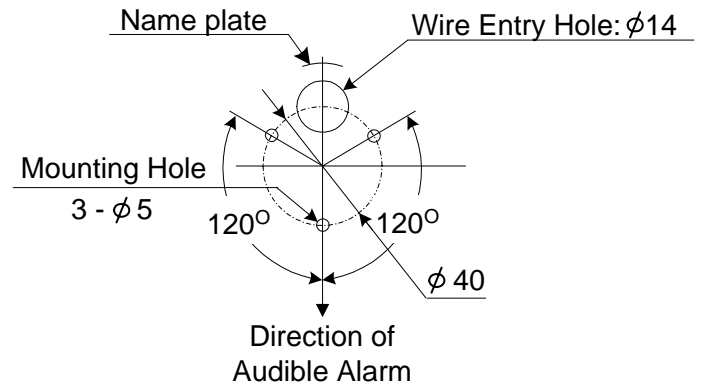


LED Module (Typ)

Base Voltage	Wire Size Chart	
24V	Signal Wires	AWG22 - AWG16
	Power Wires	AWG22 - AWG16
90-250V	Signal Wires	AWG22 - AWG16
	Power Wires	AWG18 - AWG14
	Ground Wire	AWG18 - AWG14



Mounting Dimensions



Specifications

LU7 Bases

Input Voltage	Options	DC24V	AC90-250V		
	Rated Voltage	DC24V	AC90-250V (50-60 Hz)		
	Operating Voltage	Rated Voltage + or - 10%		Rated Voltage + or - 10%	
Operating temperature Range		-30°C ~ +60°C		-25°C ~ +55°C	
Relative Humidity		Less than 90%			
Flashing Cycle ("FB" styles only)		60 + or - 12 flashes per minute			
Alarm Sound Level ("FB" styles only)		Max: 90 + or - 4dB (at 1m)		Min: Less than 70 + or - 4dB (at 1m)	
Alarm Sound Description ("FB" styles only)		Alarm 1: Continuous single tone Alarm 2: Intermittent, single-tone (slow beep)			
Mounting Location Options		Indoor use only			
Mounting Direction Options		Upright only			
Protection Rating		IP-65			
Vibration	10 Hz – 150 Hz, 12 min. sweep, 5 cycles 10 HZ – 57 Hz: Amplitude constant 0.15mm 57 Hz – 150 Hz: Acceleration constant 19.6m/s ²	1-stack	44.1m/s ² (4.5G)	10-150Hz	
		2 stacks			
		3 stacks			
		4 stacks	18.6m/s ² (1.9G)		
		5 stacks	9.8m/s ² (1.0G)		40-150Hz
Insulation Resistance		More than 1 Megohm between terminals and chassis at DC500V			
Withstand Voltage (LU7-02 / LU7-02FB)		AC500V applied between terminals and chassis for 1 minute without breaking insulation			
Dielectric Voltage (LU7-M2 / LU7-M2FB)		AC1500V applied between terminals and chassis for 1 minute without breaking insulation			
Applicable Standards	CE	EN60958-1: 1993			
	UL	UL Listed per UL-508 (File No. E215660)			
	RoHS	RoHS Directive 2005/95/EC			
Power Consumption		Alarm 1		Alarm 2	
		Steady	Inrush	Steady	Inrush
LU7-02 / LU7-02FB	Current @ DC24V (mA)	54	100	24	100
	Watts	1.3	-----	0.6	-----
LU7-M2 / LU7-M2FB	Current @ DC24V (mA)	54	100	24	100
	Watts	1.3	-----	0.6	-----
	Standby Power	0.4W @ AC100V, 0.9W @ AC240V			
	Max. Power Capacity	10W			
Fuse (not included)		1A (250V)			

Specifications

LU7-E (LED) Standard Modules

Input Voltage	Rated Voltage	DC24V				
	Operating Voltage	Rated Voltage + or - 10%				
Operating temperature Range		-30°C ~ +60°C				
Relative Humidity		Less than 90%				
Mounting Location Options		Indoor use only				
Mounting Direction Options		Upright only				
Protection Rating		IP-65				
Vibration		(See LU7 Bases Specification)				
Insulation Resistance		More than 1 Megohm between terminals and chassis at DC500V				
Withstand Voltage		AC500V applied between terminals and chassis for 1 minute without breaking insulation				
Module Color		Red	Amber	Green	Blue	Clear
LU7-E	Luminous Intensity (millicandela)	2000	1600	3000	500	2000
	(Typical) Current Consumption (mA)	52	52	53	53	53