

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 / - Red / Amber / Green / Blue / Clear

COLORS: - 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

Modules

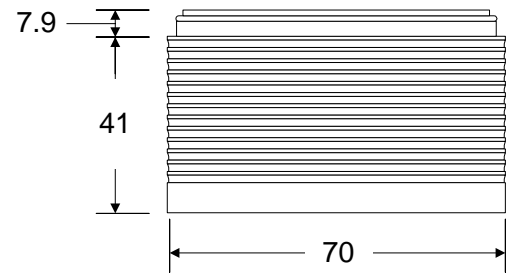
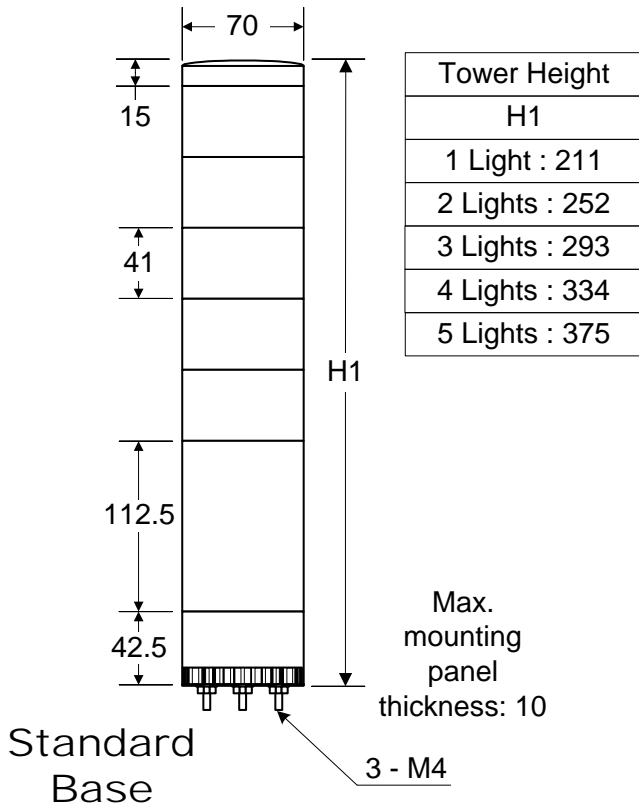
LU7 - XE - R

- 1. Series**
LU7 : 70mm diameter
- 2. Module Style**
E : Standard LED module
XE : Strobe style LED module
- 3. Lens Color**
R : Red
Y : Yellow
G : Green
B : Blue
C : Clear

Short Bases

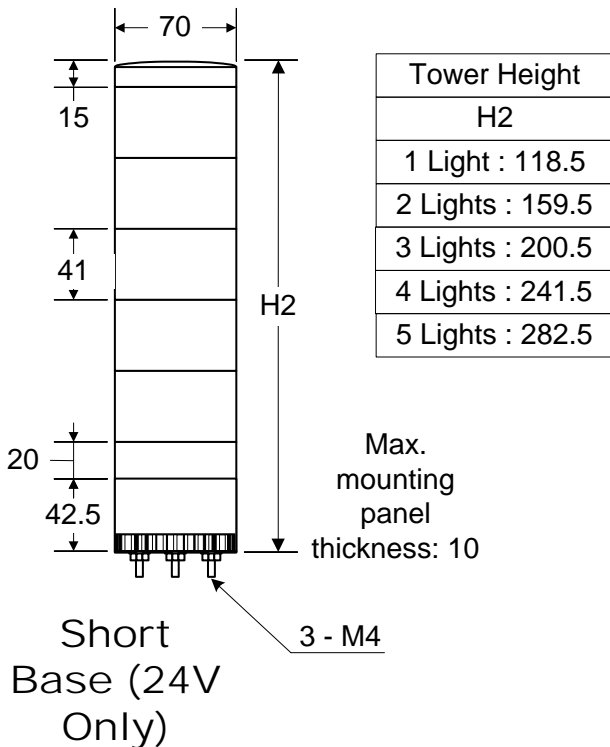
LU7 - 02SK

- 1. Series**
LU7 : 70mm diameter
- 2. Rated Voltage**
02 : DC24V
- 3. Base / Cap Color**
S : Beige (standard)
SK : Black

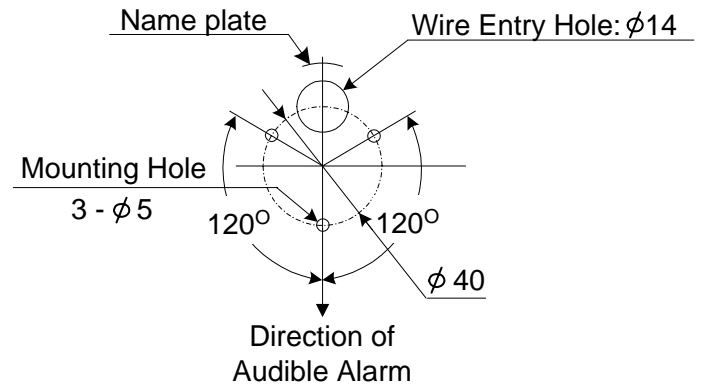


LED Module (Typ)

| 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 |