Pre-assembled and pre-cabled in different aperture to highlight the processes

# **LED Signal Towers**

- Modular and monolithic design are available.
- Patlite's extensive product range cover highly advanced LED signal towers for industrial automation and security applications.
- Mechanical and electrical durability is a key feature of signal towers since machine operators rely on the signals they show. LED modules together with an impact and heat resistant ABS resin housing are the elements to give clear guidance of the operator for a long service life.
- Different aperture for different application (from 30 mm till 70 mm)
- This signal towers are designed for use in different environments till a protection up to IP 65. That makes them suiteable for the widest possible range of applications in general industries.

## Features/Unique selling proposition

#### Modular system:

**LU5 & LU7** series signal towers deliver the advantages of superior LED technology, innovative design, and the convenience of modular assembly with only 9 basic modular components to meet just about every indicating need.



**LU5/LU7:** Versatile modular Signal Tower featuring easy assembly and wiring designed for every need.



#### Monolithic system:

**MP/MPS:** Super slim 30 mm Signal tower ideal for small and mid-sized machines with a special pre-wired versatile 1 m connection cable.



**LME:** Versatile, cost and energy efficient LED Signal tower for every need and a special pre-wired versatile and flexible cable connection of 3 m.

## LU5

## Nomenclature/How to order

LED module	
------------	--

LU5-	E٠	-R	
	1	2	

- 1. E: LED unit
- 2. Color of LED R: Red Y: Yellov G: Green B: Blue C : Clear

  - Yellow Green
  - Blue Clear/White

## **Ordering Information** LED module

Base m LU5-	nodule 02UFB
1. Rate 02.	ed voltage
2. Unit	
U: 3 Type	Silver color

Type Blank: Continuous light FB: Continuous or flashing light with audible alarm

Module Color	Power Consumption	Rated Voltage	Operation Voltage	Operation Tempera- ture Range	Mass	Order Code
Red	52 mA/1.25 W	24 VDC	Rated voltage ±10%	-30°C~+60°C	44 g ±10%	LU5-E-R
Yellow			(21.6~26.4 V)			LU5-E-Y
Green	42 mA/1.0 W					LU5-E-G
Blue						LU5-E-B
Clear						LU5-E-C

## Base module

Тур	Alarm/ Flash	Power Consumption	Rated Voltage	Operation Voltage	Operation Temperature Range	Mass	Open Col- lector	Order Code
Standard Body	Continuous	1.2 W	24 VDC	Rated volt- age ±10%	-30°C~+60°C	182g ±10%	PNP/ NPN	LU5-02*
	2 Sounds/ Flash- light			(21.6 ~ 26.4 V)		200g ±10%		LU5-02FB*

\* Ivory white: black, silver: add "U"

## **Optional parts**

Тур	Material	Order code
Wall Mount	Aluminum alloy die-cast	SZ-017
Bracket	ABS resin	SZ-020
Upper Bracket	Metal	SZ-60NPT
		SZ-60U
Mount Bracket	Aluminum alloy die-cast	SZ-016A
		SZ-70B

Тур	Height	Material	Order code
Pole	100 mm	Aluminium	Pole-100A21
	300 mm	Aluminium	Pole-300A21
	800 mm	Aluminium	Pole-800A21

#### Features



LED module is stackable and reconfigurable even after installation IP 65: Implemented O rings seal out liquids so that the tower can be used in wet conditions.









Size	50 mm diameter		
Input voltage options	24 VDC		
Functions available Continuous only Continuous, Flashing, Alarms			
Mounting options	Direct mount only, includes 3 mounting nuts		
Body styles Component style, wiring terminals provided Interchangeable and stackable after purchase			
Body colours	Beige		
Tiers 1-5 modules can be stacked			
Module colors	Red / Yellow / Green / Blue / Clear		
Alarms (FB style only)	Alarm 1: selectable, single-tone, continuous alarm, 85 dB (at 1 m) Alarm 2: selectable, single tone, intermittent (slow beep) alarm, 85 dB (at 1 m)		
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 24 VDC Direct voltage control for 24 VDC, continuous and alarm functions only		

## LU7

## Ordering Information LED module

Тур	Module Color	Power Consumption	Rated Voltage	Operation Voltage	Operation Temperature Range	Mass	Order Code
Standard	Red	52 mA/	24 VDC	Rated	-30°C~+60°C	60 g	LU7-E-R
	Yellow	1.25 W		voltage ±10%		±10%	LU7-E-Y
	Green	42 mA/1.0 W		(21.6~26.4 V)			LU7-E-G
	Blue						LU7-E-B
	Clear/ White						LU7-E-C
Strobe	Red	290 mA	24 VDC	Rated	-30°C~+60°C	70 g	LU7-XE-R
	Yellow		voltage ±10% (21.6~26.4 V)			LU7-XE-Y	
	Green	140 mA		(21.6~26.4 V)	(21.6~26.4 V)		
	Blue	270 mA					LU7-XE-B
	Clear/ White	280 mA					LU7-XE-C

#### Base module

Тур	Alarm/ Flash	Power Consumption	Rated Voltage	Operation Voltage	Operation Tem- perature Range	Mass	Open Collector	Order Code
Short Body	Continuous	1.2 W	24 VDC	Rated voltage ±	-30°C~+60°C	150 g ±10%	PNP/ NPN	LU7-02S*
Standard Body	Continuous			10% (21.6~26.4 V)		250 g ±10%		LU7 - 02*
	2 Sounds/ Flashlight					280 g ±10%		LU7 -02FB*

\* Ivory white: blank, black: add "K", silver: add "U"

## **Optional parts**

Тур	Material	Order code
Wall Mount	Aluminum alloy die-cast	SZ-017
Bracket	PBT/ ABS resin	SZ-018
		SZ-018U
		SZ-018K
	ABS resin	SZ-020
Upper	Metal	SZ - 50U
Bracket		SZ - 50UU
		SZ - 50KU
		SZ - 50NPT
Mount	Aluminum alloy die-cast	SZ-016A
Bracket		SZ-70B

## Features

Easy alignment: Color-coordinated Terminal Block: Corresponds to the lens colors for quick wiring verification in the base unit.



LU7-02FB

Height	Material	Order code
100 mm	Aluminium	Pole-100A21
	Steel	Pole-100S21
300 mm	Aluminium	Pole-300A21
	Steel	Pole-300S21
800 mm	Aluminium	Pole-800A21
	Steel	Pole-800S21
	100 mm 300 mm	100 mm Aluminium Steel 300 mm Aluminium Steel 800 mm Aluminium

Voice and Sound Module (unique sound module in all directions)

Rated Volt- age	Power Con- sumption	Mass	Order code
24 VDC	3.5 W	170 g	LU7-V1

LU7-02S Short Body

 $\phi$  70







How to order							
	Voice and Sou	nd Module					
	voice and Soul						
	( )	Model			LU7-V1		
		Туре		l.	/oice Synthesize	er	
		Rated Voltage			24 VDC		
		Power Consumption			3.5 W		
		Weight			0.17 kg		
	LED Units						
		Model	LU7-E-R	LU7-E-Y	LU7-E-G	LU7-E-B	LU7-E-C
		Unit Color					0
		Rated Voltage			24 VDC		
		Operating Voltage Range			oltage±10%(21.)		
		Current/Power Consumption	52 mA	/1.25 W		42 mA/1.0 W	
		Operating Temperature Range			-30°C~+60°C		
		Mass			60 g±10%		
	LED Strobe Mo	dule					
		Model Unit Color	LU7-XE-R	LU7-XE-Y	LU7-XE-G	LU7-XE-B	LU7-XE-C
		Rated Voltage			24 VDC		
		Power Consumption	290 mA	290 mA	140 mA	270 mA	280 mA
		Mass	200 1111	200 1111	0.07 kg	210 1111	200 1111
					0		
		RED YELLOW	/	GREEN	BLUE	CLEA	R/WHITE
	BASE Units						
		Model	LU7-02	2S	LU7-02	LU	7-02FB
	$\bigcap$	Color		I	$\bigcirc \bigcirc \bigcirc \bigcirc$	I	
		Standard Body/Short Body	Shor	t		Standard	
		Rated Voltage			24 VDC		
( <del>,</del>		Operating Voltage Range		Rated vo	Itage±10%(21.6	6~26.4 V)	
		Buzzer		-		*Buzzer 1	
		Current Consumption		-		50±10 m	
		Power Consumption		-			W 0.58±0.25 W
		Sound Level		_			±5dB(at 1m)
	Standard Body	Flaching Quala					or Less(at 1m)
	$\frown$	Flashing Cycle Operating Temperature		-	-30°C~+60°C		shes per minute
		Range		11	pright, Indoor or		
		Mounting Direction		0	IP65	,	
		Protection Rating Mass	150 g±1	10%	250 g±10%	280	g±10%
		Open Collector		1	PNP/NPN		
	Short Body	* Buzzer 1 : Continuous Sound	**Buzzer 2	: Intermittent S	ound		
	onor body						
		Vory White	Silver Color(U		Black(K)		
<b>Optional Parts</b>							



•	
Size	70 mm diameter
Input voltage options	24 VDC
Functions available	Continuous only 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 Silver
Tiers	1-5 modules can be stacked
Module colors	Red / Yellow / Green / Blue / Clear Standard LED Modules Strobe-flash LED Modules (24 V bases only)
Alarms (FB style only)	Alarm 1: selectable, single-tone, continuous alarm, 90 dB (at 1 m) Alarm 2: selectable, single tone, intermittent (slow beep) alarm, 90 dB (at 1 m)
Ratings	CE UL Listed (US) UL Listed (Canada) RoHS
Protections	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 24 VDC Direct voltage control for 24 VDC, continuous and alarm functions only

## MP/MPS

## Nomenclatur/ How to order:

## MP-502-RYGBC-B0438

1	2 3	4	5		
	: Stan S: Shor		у	4. Color R:	Red
2. Sta 1~5				Y: G: B:	Yellow Green Blue
	ted voltag 24 V			C:	Clear/White

## Features

Patented reflection system increases visibility.





High intensity LED

Good visibility from any direction

## Dimensions





5. Color of lense Blank: Colored lens B0438: Clear lens



## Wiring diagram



## Ordering information

Num- ber of stacks	Rated voltage	Power Consump- tion	Open collector	Order code
1	24 VAC/	0.7 W	NPN/PNP	MP/MPS-102
2	VDC	1.4 W		MP/MPS-202
3	-	2.0 W		MP/MPS-302
4	-	2.6 W		MP/MPS-402
5	-	3.2 W		MP/MPS-502

#### Interchangeable LED modules Changeable color sequence: Easy to add/remove up to 5 colored modules even after installation. Note: LED modules of the same color will light up simultaneously.

The wiring remains the same.

Each color of LED module corresponds to the lead wire color.



Size	30 mm diameter
Input voltage options	24 VAC/VDC
Functions available	Continuous only
Mounting options	Direct mount only: includes M22 mounting nut and sealing gasket
Body style	pre-assembled, pre-wired Interchangeable and stackable after purchase
Body color	Silver
Tiers	1-5 modules can be stacked
Module colors	Red / Yellow / Green / Blue / Clear-White (for sunlight applications: clear-lense modules in all colors available)
Ratings	CE UL Component Recognition (US) UL Component Recognition (Canada) RoHS
Protection	IP-65
Control options	Dry contact closure such as switches or relay contacts Open-collector transistor (NPN or PNP) for 24 VDC Direct voltage control

# Nomenclature/How to order LME-502UFBW-C-RYGBC-Z

1234301					
1. Stack			6. Cable		7. Color of LED
1 ~ 5	4. Type		C:	Special pre-wired	R: Red
<ol> <li>Rated Voltage</li> <li>02: 24V AC/DC</li> <li>Body Color</li> </ol>	Blank: FB:	Continuous light Continuous light or flashing light with audible alarm		cable connection of 3 m	Y: Yellow G: Green B: Blue
Blank: Ivory white N: Black color U: Silver color	K:	Pole mount Pole Mount (with SZ-020) Direct mount			C: Clear/White 8. Color of Lens Blank: Colored lens Z: Clear lens

## **Ordering Information**

Number of	Mount	Model	Rated Volt-	Power Con-	Open Collec-	Order code	
Stacks			age	sumption	tor	Continuos	Continuous light with audible
						light	alarm
1	Pole Mount	LME-102	24 VAC/DC	2.2 W	NPN/ PNP	LME-102-C	LME-102-FB-C
	Direct Mount		24 VAC/DC			LME-102W-C	LME-102-FBW-C
2	Pole Mount	LME-202	24 VAC/DC	3.4 W		LME-202-C	LME-202-FB-C
	Direct Mount		24 VAC/DC			LME-202W-C	LME-202-FBW-C
3	Pole Mount	LME-302	24 VAC/DC	3.8 W		LME-302-C	LME-302-FB-C
	Direct Mount		24 VAC/DC			LME-302W-C	LME-302-FBW-C
4	Pole Mount	LME-402	24 VAC/DC	4.2 W		LME-402-C	LME-402-FB-C
	Direct Mount		24 VAC/DC			LME-402W-C	LME-402-FBW-C
5	Pole Mount	LME-502	24 VAC/DC	4.6 W		LME-502-C	LME-502-FB-C
	Direct Mount		24 VAC/DC			LME-502W-C	LME-502-FBW-C

## **Optional parts**

Тур	Material	Order code
Wall Mount	Aluminum alloy die-cast	SZ-017
Bracket	ABS resin	SZ-020
	PBT/ ABS resin	SZ-028
Mount	Aluminum alloy die-cast	SZ-016A
Bracket	Aluminum alloy die-cast	SZ-010

Тур	Height	Material	Order code
Pole	100 mm	Aluminium	Pole-100A21
		Steel	Pole-100S21
	300 mm	Aluminium	Pole-300A21
		Steel	Pole-300S21
	800 mm	Aluminium	Pole-800A21
		Steel	Pole-800S21

## Dimensions



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## Wiring diagram

LME(-W)/LME(-W)-S·Q/LMS [Continuous type]

24V AC/DC

,	,		For continuou	is light
	LED, R Red	~		
	LED, Y Orange	°	~	
HL	LED, G Green	~	~	
	LED, B Blue	~		
	LED, C White	0		
: 🖵 🛛			10.03	1
Ŭ.				.Θ *
				Power
	Yellow	~	Fuse	supply
·		0	1A	Ð

## Features

#### Interchangeable LED modules

- Changeable color sequence: Easy to add / remove up to 5 colored modules even after installation.
- Note: LED modules of the same color within a signal tower will light up simultaneously.

#### The wiring remains the same

Each color of LED module corresponds to the lead wire color.

## Easy to add and remove

If the number of LED module is changed, center shaft must be purchased.



PATLITE's original dual reflection system with its exclusive hybrid prism-cut lens and 5 color LED modules create bright, distinctive, even illumination.



To bring more attention to certain conditions, two, User-selectable, Alarms integrated in the Base module with adjustable volume up to 85 dB at 1m are available.

Size	60 mm diameter
Input voltage options	24 VAC/VDC
Functions available	Continuous only
	Continuous, Flashing, Alarms
Mounting options	Pole mount: with 300 mm aluminum pole, plastic circular bracket
	Direct mount: includes 3 mounting nuts
Body style	Pre-assembled, pre-wired
	Interchangeable and stackable after purchase
Body color	Beige (optional: Black or Silver)
Tiers	1-5 modules can be stacked
Module colors	Red / Yellow / Green / Blue / Clear/White (for sunlight applications: clear-lense modules in all colors available)
Alarms (FB style	Alarm 1: selectable, single-tone, intermittent (fast beep) alarm, 85 dB (at 1 m)
only)	Alarm 2: selectable, single tone, intermittent (slow beep) alarm, 85 dB (at 1 m)
Ratings	CE
	UL Component Recognition (US)
	UL Component Recognition (Canada)
	RoHS
Protection	IP-65 (LME, LME-W)
	IP-54 (LME-FB, LME-FBW)
	Type 4/4X/13 (indoor, direct-mount only)
Control options	Dry contact closure such as switches or relay contacts
	Open-collector transistor (NPN or PNP) for 24 VDC
	Direct voltage control for 24 VDC, continuous and alarm functions only

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