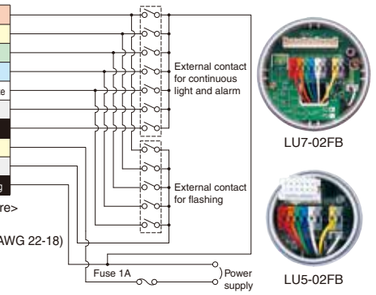
Wiring example for Base unit

LU7-02FB/LU5-02FB 24V DC

No.1	Red	LED unit Red
No.2	Orange	LED unit Amber
No.3	Green	LED unit Green
No.4	Blue	LED unit Blue
No.5	White	LED unit Clear/White
No.6	Gray	Alarm 1
No.7	Black	Alarm 2
No.8	Yellow	COM
No.9	Gray	Flashing COM
No.10	Black	Power supply for flashing



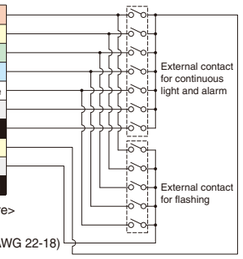
<Recommended electric wire>
Solid wire:ϕ0.8 - ϕ1.2mm
Stranded wire:0.3-1.25mm^2(AWG 22-18)

LU7-02FB

LU5-02FB

LU7-M2FB 90-250V AC

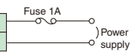
No.1	Red	LED unit Red
No.2	Orange	LED unit Amber
No.3	Green	LED unit Green
No.4	Blue	LED unit Blue
No.5	White	LED unit Clear/White
No.6	Gray	Alarm 1
No.7	Black	Alarm 2
No.8	Yellow	COM
No.9	Gray	Flashing COM
No.10	Black	Power supply for flashing



<Recommended electric wire>
Solid wire:ϕ0.8 - ϕ1.2mm
Stranded wire:0.3-1.25mm^2(AWG 22-18)

LU7-M2FB

P1	AC in (L)
P2	AC in (N)



<Recommended electric wire>
Solid wire:ϕ0.6 - ϕ1.7mm
Stranded wire:0.3-2.5mm^2(AWG 22-14)

【External contact capacity】

Voltage specs		24V DC	90～250V AC
LED unit	Current consumption	Red・Amber : 52mA Green・Blue・Clear/White : 42mA	
〔1-Light〕	Contact capacity	Is≧100mA, Vs≧35V AC	
Alarm	Current consumption	50mA	
	Inrush current	100mA	
	Contact capacity	Is≧100mA, Vs≧35V AC	
Power supply	Current consumption	360mA	40mA (250V)～110mA (90V)
	Contact capacity	Is≧500mA Vs≧35V AC	9A (90V)～25A (250V) Vs≧250V AC

※Is : Current capacity Vs : Withstand voltage

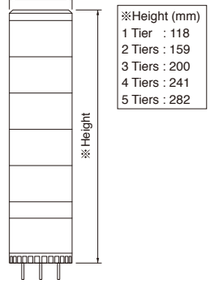
【External contact fuse】

Voltage	Amperage rating of fuse
All model	250V 1A

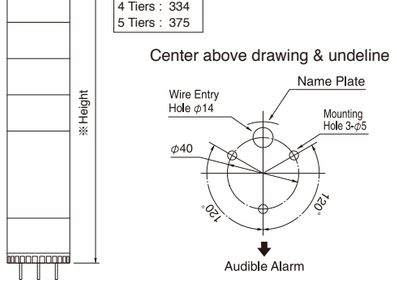
※Use a fuse conforming to the rated current of the machine on which you install product.
(Example: UL class J type fuse)

Dimensions

LU7-02S Short Body

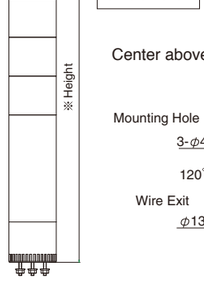


LU7 Standard Body

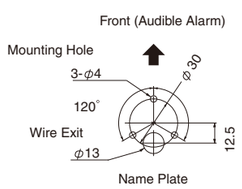


Center above drawing & undeline

LU5



Center above drawing & undeline



PATLITE Corporation

PATLITE (U.S.A.) Corporation

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PATLITE TAIWAN CO., LTD.

ISO14001:2004 Certified
Headquaters/Sanda Plant/Techno Center

⚠ CAUTION	To ensure correct use of these products, read the Instruction Manual prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.

http://www.patlite.com

PATLITE ECO PROJECT
For the benefit of mankind and the earth, Patlite is committed to developing environmentally friendly products.

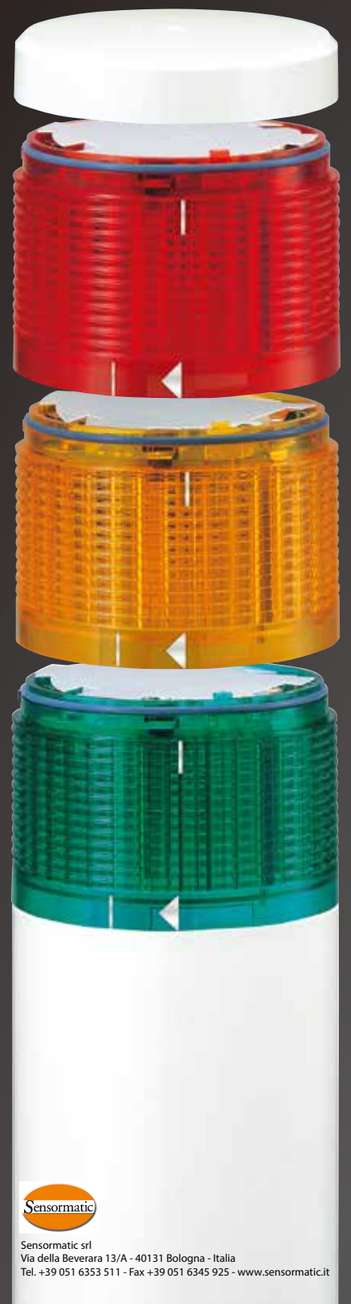
VEGETABLE OIL INK

1211A	0809J(J)/J(TS)A

PATLITE®
New Frontiers for Safety, Security and Comfort.

Modular LED Signal Tower
LU5/LU7 Series

PATLITE's 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.



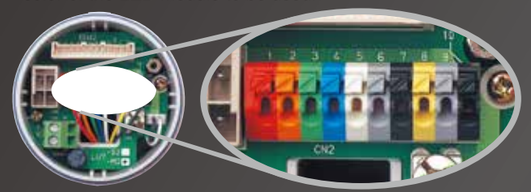
Sensormatic srl
Via della Beverara 13/A - 40131 Bologna - Italia
Tel. +39 051 6353 511 - Fax +39 051 6345 925 - www.sensormatic.it

Ultra Bright LEDs combined with an Innovative Prism Lens Design

Allows the light emitted from the signal tower to be seen from greater distances. This also allows for use of a smaller diameter light, reducing the cost of the light tower.

Color-coordinated & Spring-loaded Terminal Block

Makes wiring easy and more reliable compared to screw-type connections. Each color corresponds to the color of the LED module to be used.



Wiring Terminals

Two user-selectable Alarms Integrated in the Base Module

Allows sound to enhance the critical nature of a visual signal, bringing more attention to certain conditions. Also, since the modules are built into the base, up to 5 LED modules can be used on the light tower.

Delivers Sounds up to 90dB at 1 m.

Alarm can be easily heard over ambient noise.

Modular Design

Makes it easy to configure and assemble a light tower. Modules can be put away before shipping the machine, reducing shipping and crate costs.

Modular Construction

O-rings

Seal out liquids so that the tower achieves an IP65 rating allowing the tower to be used in wet conditions.

IP65 Protection

IP65 & IP66 with Optional Cable Gland

The O-rings seal the tower from liquids so that an IP65 rating can be achieved to allow the tower to be used in wet environments. Adding a Cable Gland (user supplied) the tower's IP rating is increased to IP66.

LU7 Series 70mm diameter

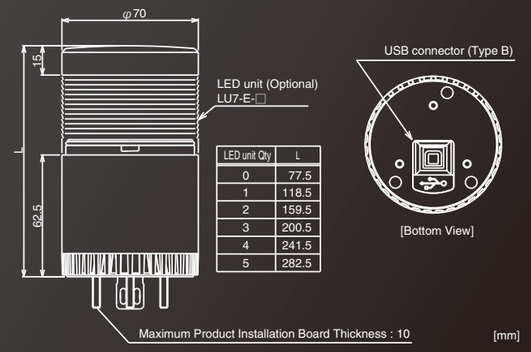
Modular LED Signal Tower

■USB Base Module

NEW

USB powered Base Unit with Integrated Alarms (LU7-02S-USB)

- Power over USB - no power supply needed
- DLL Operable
- Supports a maximum of five tiers where three tiers can be lighted simultaneously
- Complies with CE/RoHS/FCC/KC Standards
- IP65 Protection rating
- Adjustable Alarm Frequency
- 2 levels of adjustable alarm sound
- Sound pressure is a maximum of 80dB
- Control Program downloadable from PATLITE website
- Four kind of flashing patterns
- 13 variations of alarm frequency and 5 patterns of alarm sound
- Strip to secure USB cable included
- Supported OS: Windows 7, Windows 8



LED unit Qty	L
0	77.5
1	118.5
2	159.5
3	200.5
4	241.5
5	282.5

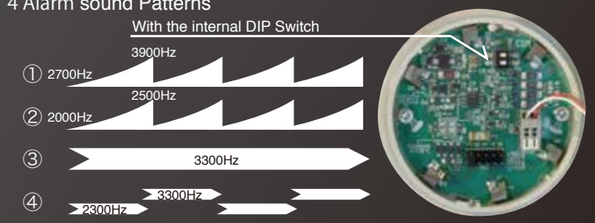
■Omni-directional Sound Module

NEW

Loud, multi-sound Module (LU7-LB)

- Loud sound pressure up to 100dB (±5dB)
- Four kinds of alarm sounds can be selected with a DIP switch for a wider alarm sound range
- IP40 Protection rating
- Complies with CE/RoHS/FCC Standards
- Can be used with LU7-02(FB), LU7-M2(FB), and LU7-02SB
- Alarm can be set to sound with a specific LED module for simultaneous control

4 Alarm sound Patterns



Stackable audible alarm

- Can be used with LU7-02(FB), LU7-M2(FB), and LU7-02S(B).
- Easily mounted at the top of the light stack.

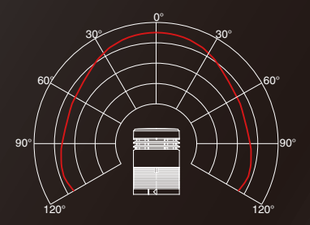


Diagram 1. Sound Direction

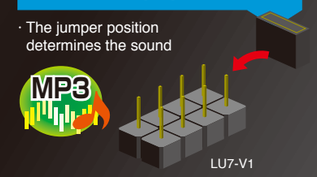
Omni-directional MP3 Smart Alert Module (LU7-V1)

Head cover is supplied with the base unit.

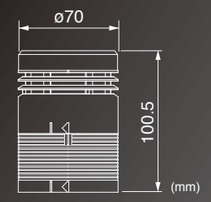
- Volume adjustable from 9dB to 80dB at 1m (depends on type of sound or message)
- High quality MP3 supported voice and sound module replays up to 4 alarms or messages with 32 seconds of total program time
- Playback sound selected by the position of internal jumper pin
- MP3 data is recorded before shipment of order
- CE compliant

Selectable playback sound

- The jumper position determines the sound



Model	Type	Rated Voltage	Rated Current Consumption	Power Consumption	Mass
LU7-LB	Alarm Sound	24V DC	150mA	-	140g
LU7-V1	MP3 Smart Alert	24V DC	-	3.5W	170g



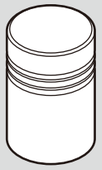
LU7 Series

70mm diameter

Modular LED Signal Tower

RoHS CE c UL us LISTED IP65 Environment Protection

Voice and Sound Module

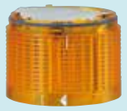


Model	LU7-LB (NEW)	LU7-V1
Type	Alarm Sound	MP3 Smart Alert
Rated Voltage	DC 24V	DC 24V
Rated Current Consumption	150mA	-
Power Consumption	-	3.5W
Mass (±10%)	140g	170g

LED Units

Model	LU7-E-R	LU7-E-Y	LU7-E-G	LU7-E-B	LU7-E-C
Unit Color	●	●	●	●	○
Rated Voltage	DC 24V				
Operating Voltage Range	DC 21.6 ~ 26.4V				
Current/Power Consumption	52mA/1.25W	42mA/1.0W			
Operating Temperature Range	-30℃ ~ +60℃				
Mass (±10%)	60g				

LU7-E-R
LED unit RED



LU7-E-Y
LED unit AMBER

LU7-E-G
LED unit GREEN

LU7-E-B
LED unit BLUE

LU7-E-C
LED unit CLEAR/WHITE

LED Strobe Module

Model	LU7-XE-R	LU7-XE-Y	LU7-XE-G	LU7-XE-B	LU7-XE-C
Unit Color	●	●	●	●	○
Rated Voltage	DC 24V				
Power Consumption	290mA	290mA	140mA	270mA	280mA
Mass (±10%)	70g				

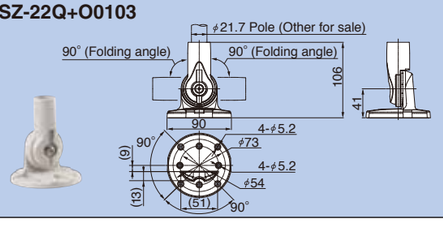
BASE Units

Model	LU7-02S	LU7-02	LU7-02SB (NEW)	LU7-02FB	LU7-02S-USB (NEW)	LU7-M2	LU7-M2FB
Color	○ ◯(-02SU, -02U, -02UFB, -M2U, -M2UFB) ● (-02SK, -02K, -02KFB, -M2K, -M2KFB)						
Standard Body/Short Body	Short	Standard	Short	Standard	Short	Standard	
Rated Voltage	DC 24V				DC 5V (USB bus power)	AC 100~240V (50/60Hz)	
Operating Voltage Range	DC 21.6 ~ 26.4V				DC 4.75 ~ 5.25V※	AC 90~250V (50/60Hz)	
Alarm	-		*Alarm 1	*Alarm 2	5 Patterns	-	*Alarm 1 / *Alarm 2
Current Consumption	-		50±10mA	24±10mA	Max 500mA	-	50±10mA / 24±10mA
Power Consumption	-		1.2±0.25W	0.58±0.25W		-	1.8±0.25W / 1.3±0.25W
Sound Level	-		Max:90±5dB (at 1m) / Min:70dB or Less (at 1m)		80±5dB (at 1m)	-	Max:90±5dB (at 1m) / Min:70dB or Less (at 1m)
Flashing Cycle	-		60±12 flashes per minute			-	60±12 flashes per minute
Operating Temperature Range	-30℃ ~ +60℃				-20℃ ~ +60℃	-25℃ ~ +55℃	
Mounting Direction	Upright, Indoor only				Upright, Indoor only	Upright, Indoor only	
Protection Rating	IP65 (IP66 with Cable Gland supplied by user) ※Excludes LU7-USB						
Mass (±10%)	150g	250g	250g	280g	160g	310g	340g
Open Collector Type	PNP/NPN				-	NPN	

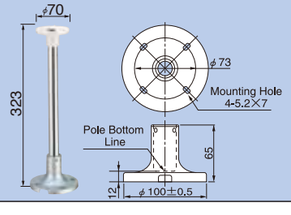
※ Based on USB 2.0 Standard

Pre-assembled

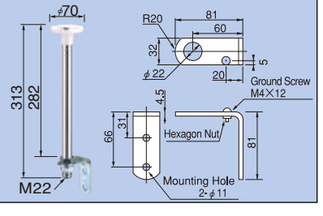
SZ-22Q+O0103



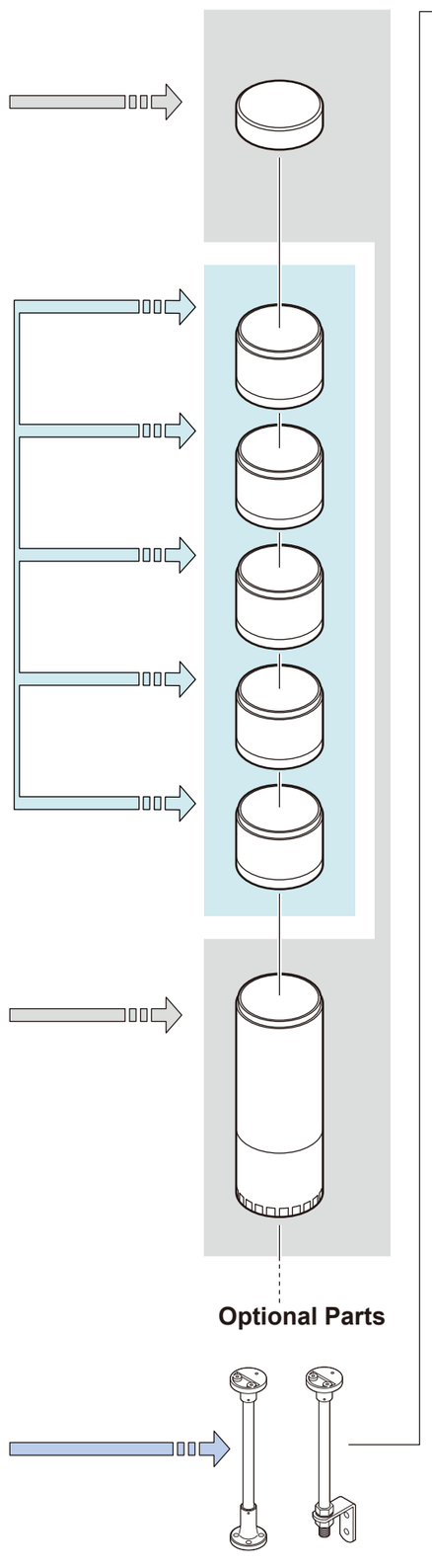
SZ-50T



SZ-50L

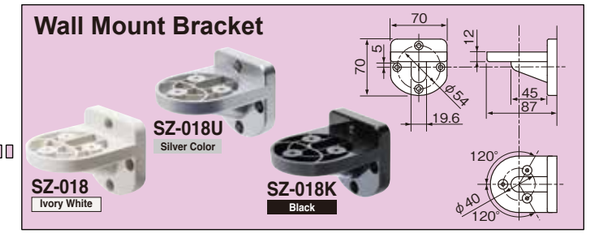


Optional Parts

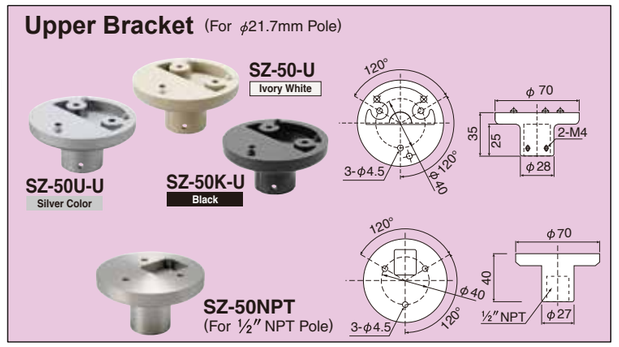


Optional Parts

Wall Mount Bracket



Upper Bracket (For ϕ21.7mm Pole)



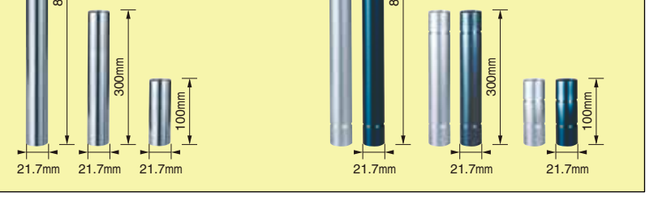
Pole

Steel Pole

800mm : **POLE-800S21**
300mm : **POLE-300S21**
100mm : **POLE-100S21**

Aluminum Pole

800mm : **POLE-800A21**
800mm : **POLE-800A21K**
300mm : **POLE-300A21**
300mm : **POLE-300A21K**
100mm : **POLE-100A21**
100mm : **POLE-100A21K**

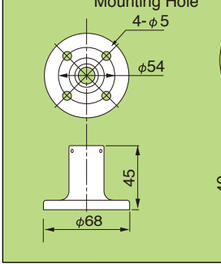


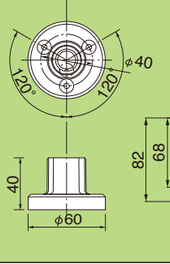
Mounting Bracket

SZ-016A
SZ-016KA+FO030
(For ϕ21.7mm Pole)

SZ-70-B
(For ϕ21.7mm Aluminum Pole Only)

Mounting Hole

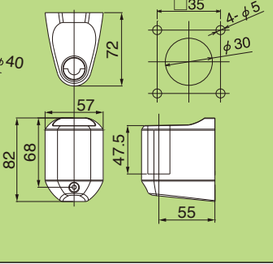




Wall Mount Bracket

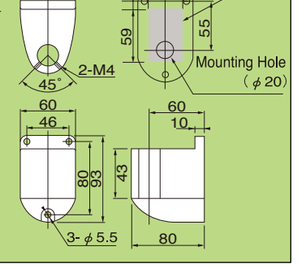
SZ-020
(For ϕ21.7mm Pole)

Mounting Dimensions



SZ-017
(For ϕ21.7mm Pole)

Max.Mounting Hole Size



LU5 Series

50mm diameter

Modular LED Signal Tower

RoHS CE c UL us LISTED IP65 Environment Protection

LED Units

Model	LU5-E-R	LU5-E-Y	LU5-E-G	LU5-E-B	LU5-E-C
Unit Color	●	●	●	●	○
Rated Voltage	DC 24V				
Operating Voltage Range	DC 21.6 ~ 26.4V				
Current/Power Consumption	52mA/1.25W		42mA/1.0W		
Operating Temperature Range	-30℃ ~ +60℃				
Mass (±10%)	44g				

RED AMBER GREEN BLUE CLEAR/WHITE

LU5-E-R LED unit RED | LU5-E-Y LED unit AMBER | LU5-E-G LED unit GREEN | LU5-E-B LED unit BLUE | LU5-E-C LED unit CLEAR/WHITE

BASE Units

NEW

Model	LU5-02	LU5-02FB
Color	○ ○ ●	
Body Style	Standard	
Rated Voltage	DC 24V	
Operating Voltage Range	DC 21.6 ~ 26.4V	
Alarm	*Alarm 1	**Alarm 2
Current Consumption	50±10mA	24±10mA
Power Cunsumption	1.2±0.25W	0.58±0.25W
Sound Level	Max: 85±5dB (at 1m)	
Flashing Cycle	60±12 flashes per minutes	
Operating Temperature Range	-30℃ ~ +60℃	
Mounting Direction	Upright, indoor only	
Protection Rating	IP65	
Mass (±10%)	182g	200g
Open Collector	PNP/NPN	

* Alarm 1 : Continuous Sound **Alarm 2 : Intermittent Sound

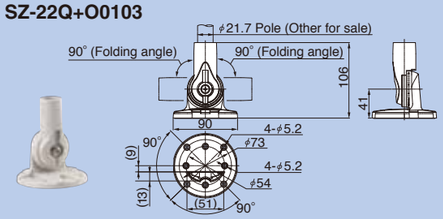
Unit Color Variation

Ivory White | Silver | Black

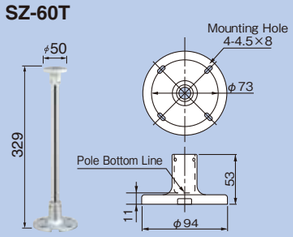
LU5-02 LU5-02FB | LU5-02U LU5-02UFB | LU5-02+FB200 LU5-02FB+FB200

Pre-assembled

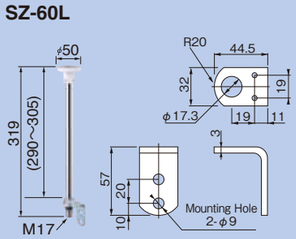
SZ-22Q+O0103



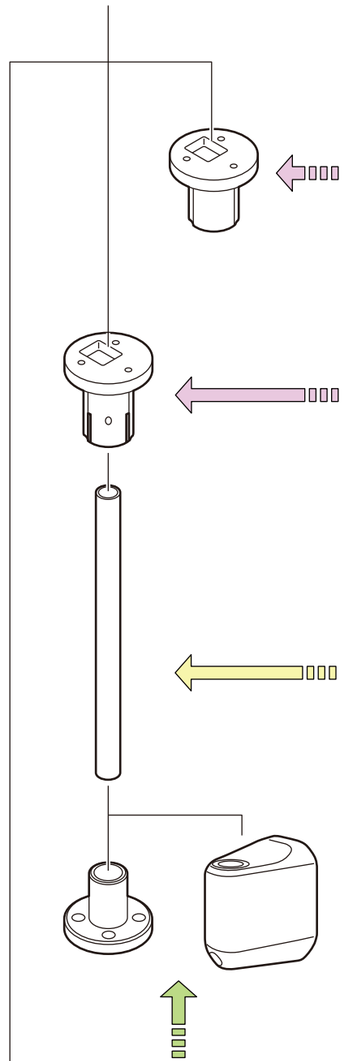
SZ-60T



SZ-60L

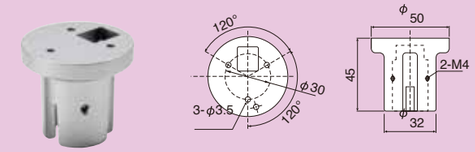


Optional Parts



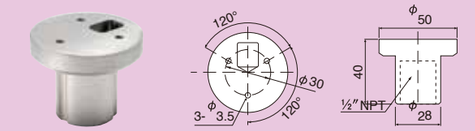
Upper Bracket

SZ-60-U (For ϕ21.7mm Pole)



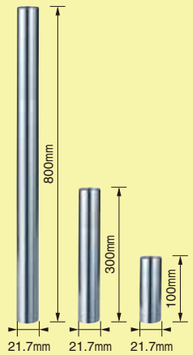
Upper Bracket

SZ-60NPT (For ½″ NPT Pole)



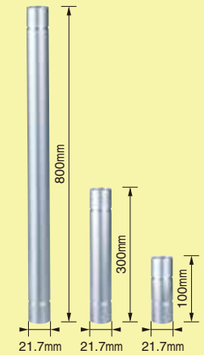
Pole

Steel Pole



800mm : **POLE-800S21**
300mm : **POLE-300S21**
100mm : **POLE-100S21**

Aluminum Pole



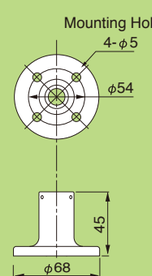
800mm : **POLE-800A21**
300mm : **POLE-300A21**
100mm : **POLE-100A21**

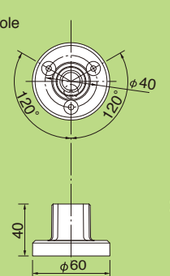
Mounting Bracket

SZ-016A (For ϕ21.7mm Pole)

SZ-70-B (For ϕ21.7mm Aluminum Pole Only)

Mounting Hole



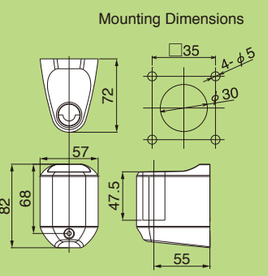
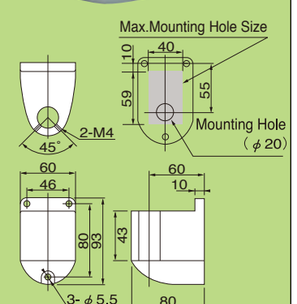


Wall Mount Bracket

SZ-020 (For ϕ21.7mm Pole)

SZ-017 (For ϕ21.7mm Pole)

Mounting Dimensions



Max.Mounting Hole Size