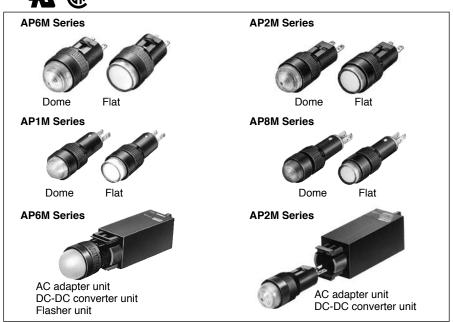
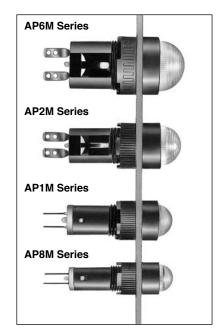
Ø8·10·12·16 AP Series Miniature Pilot Lights

Super Bright LEDs with built-in current-limiting resistor and reverse polarity protection diode

- · Space saving miniature style
- Long life
- Illumination colors: amber, blue, green, pure white, red, white, and yellow (blue and pure white available for AP8M and AP1M only)
- Marking is available on flat lens units. (except AP8M series)
- Built-in protection diode ensures a reverse withstand voltage of 100V.
- · UL recognized and CSA certified







· Pilot Light

Input Type	Full voltage	ull voltage					
Operating Voltage	5V DC	6V DC	12V AC/DC	12V DC	24V AC/DC	24V DC	
Rated Current	AP1M, AP8M: 9 mA (yellow: 15 mA)	AP6M, AP2M: 33 mA	AP1M, AP8M: 9 mA (yellow: 15 mA)	AP6M, AP2M: 22 mA	AP1M, AP8M: 9 mA (yellow: 15 mA)	AP6M, AP2M: 11 mA	
Illumination Color Code		AP6M, AP2M: A (amber), G (green), R (red), Y (yellow), W (white) AP8M, AP1M: A (amber), G (green), PW (pure white), R (red), S (blue), Y (yellow), W (white)					
Operating Temperature	-20 to +55°C (no free	ezing)					
Operating Humidity	45 to 85% RH (no co	ndensation)					
Insulation Resistance	Between live and dea	Between live and dead parts: 100 MΩ minimum (500V DC megger)					
Dielectric Strength	Between live and dea	Between live and dead parts: 1000V, 1 minute					
Reverse Withstand Voltage	10	OV	_	100V	_	100V	
Solder Terminal	Soldering 350°C max	rimum (3 sec)					
Applicable Wire	ø1.0 or 0.75 mm² ma	aximum (20 to 16 AW)	G)				
Weight (approx.)	AP6M: 7.5g AP2M: 4.5g AP1M: 2.5g AP8M: 2.0g						
Degree of Protection	AP6M, AP2M, AP1M	: IP65 AP8M: IP40	(according to IEC	60529)			

· AC Adapter/DC-DC Converter (Option)

710 71aapto:/20	Do conventer (option	,				
Unit	AC Adapter	DC-DC Converter				
Applicable Unit	AP6M and AP2M (6V rating o	AP6M and AP2M (6V rating only)				
Operating Voltage	100/110V AC, 200/220V AC 50/60 Hz	110V DC (90 to 140V DC)				
Power Consumption	1.6 VA maximum	1W maximum				
Insulation Voltage	250V AC	140V DC				
Insulation Resistance	Between live and dead parts: 100 MΩ minimum (500V DC megger)					
	Between live and dead parts: 2000V, 1 minute					
Dielectric Strength	Between I/O terminals: 2000V AC/, 1 minute	Between I/O terminals: 1500V AC, 1 minute				
Terminal Style	M3 screw					
Weight (approx.)	38g	20g				

· Flasher Unit (Option)

Applicable Unit	AP6M (12V and 24V DC rating only)			
Operating Voltage	12/24V DC compatible ±10%			
Flashing Period	Adjustable between approximately 30 to 600 cycles per minute (period 0.1 to 2 sec)			
Current Draw	4 mA (OFF) to 6 mA (ON)			
Terminal Style	M3 screw			
Weight (approx.)	13.5g			

AP6M Series (ø16)

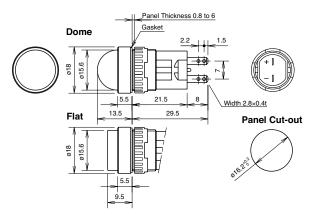
Shape	Operating Voltage	Type No.	Ordering Type No.	Package Quantity	Lens Color Code
Dome	CV DC . Fov	A DCMOCC®	AP6M266@	1	
	6V DC ±5%	AP6M266@	AP6M266@PN10	10	
	10V DC +109/	ADGM011®	AP6M211@	1	
	12V DC ±10%	AP6M211@	AP6M211@PN10	10	Specify a lens color
	0.41/ DO 100/	AP6M222②	AP6M222@	1	code in place of ② in the Type No. A: amber G: green R: red W: white Y: yellow
71 ° (1)°	24V DC ±10%		AP6M222@PN10	10	
Flat (marking type)	6V DC ±5%	AP6M166@	AP6M166@	1	
	6V DC ±5%		AP6M166@PN10	10	
AL (B.	10)/ 00 100/	AP6M111@	AP6M1112	1	
	12V DC ±10%		AP6M111@PN10	10	
	24V DC ±10%	AP6M122@	AP6M122@	1	
	24V DC ±10%	AFOIVI 122@	AP6M122@PN10	10	

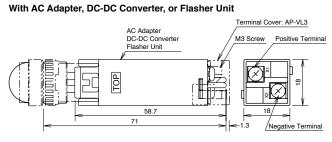
The LED cannot be removed. The lens can be removed and replaced.

• AC Adapter, DC-DC Converter, Flasher Unit

Unit	Operating Voltage	Type No. (Ordering Type No.)	Applicable Pilot Light	Package Quantity
AC Adoptor	100/110V AC	AP6-016D		
AC Adapter	200/220V AC	AP6-026D	AP6M266@ (dome: 6V DC) AP6M166@ (flat: 6V DC)	
DC-DC Converter	110V DC (90 to 140V DC)	AP6-016DD	/ I divited (inat. dv 20)	
Flasher Unit	12/24V DC	UZ6-F10	AP6M211@ (dome: 12V DC) AP6M222@ (dome: 24V DC) AP6M111@ (flat: 12V DC) AP6M122@ (flat: 24V DC)	1

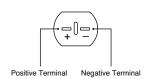
Dimensions / Panel Cut-out





Terminal cover is not supplied. When using terminal covers, order AP-VL3 terminal covers.

Terminal Arrangement (Bottom View)



Marking Plate



Engraving depth: 0.5 mm maximum Marking plate material: White acrylic

[•] Degree of protection: IP65

AP2M Series (ø12)

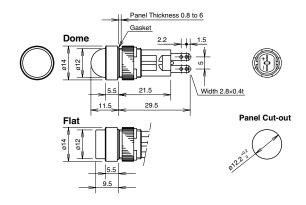
Shape	Operating Voltage	Type No.	Ordering Type No.	Package Quantity	Lens Color Code
Dome	CV DC . Fov	A DOMAGGO	AP2M266@	1	
	6V DC ±5%	AP2M266@	AP2M266@PN10	10	
	12V DC ±10%	AP2M211@	AP2M211@	1	
	12V DC ±10%	APZIVIZTI	AP2M211@PN10	10	Specify a lens color
	24V DC ±10%	AP2M2222	AP2M2222	1	code in place of ② in the Type No. A: amber G: green R: red W: white Y: yellow
71 ° (1)°			AP2M222@PN10	10	
Flat (marking type)	01/ 00 - 50/	AP2M166@	AP2M166@	1	
	6V DC ±5%		AP2M166@PN10	10	
		AP2M1112	AP2M111@	1	
	12V DC ±10%		AP2M111@PN10	10	
	0.41/ DO . 100/		AP2M122@	1	
71 🐠	24V DC ±10%	AP2M122②	AP2M122@PN10	10	

[•] The LED cannot be removed. The lens can be removed and replaced. • Degree of protection: IP65

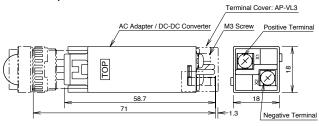
· AC Adapter, DC-DC Converter

Unit	Operating Voltage	Type No.	Applicable Pilot Light	Package Quantity
AC Adapter	100/110V AC	AP2-016D	A Dollago () OV DO)	
AC Adapter	200/220V AC AP2-0260		AP6M266@ (dome: 6V DC) AP6M166@ (flat: 6V DC)	1
DC-DC Converter	110V DC (90 to 140V DC)	AP2-016DD	THE OWN TOOKS (Hatt. OV DO)	

Dimensions / Panel Cut-out

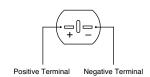


With AC Adapter or DC-DC Converter



Terminal cover is not supplied. When using terminal covers, order AP-VL3 terminal covers.

Terminal Arrangement (Bottom View)



Marking Plate



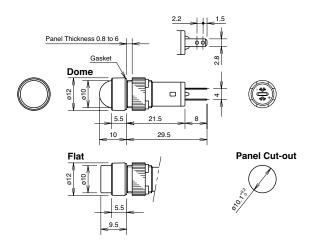
Engraving depth: 0.5 mm maximum Marking plate material: White acrylic

AP1M Series (ø10)

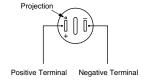
Shape	Operating Voltage	Type No.	Ordering Type No.	Package Quantity	Lens Color Code
Dome	5V DC ±5%	AP1M255©	AP1M255@	1	
	5V DC ±5%	APTIVI255@	AP1M255@PN10	10	
	10\/ 40/D0 .100/	AD4M044®	AP1M211@	1	
	12V AC/DC ±10%	AP1M211@	AP1M211@PN10	10	Specify a lens color code in place of ②
		AP1M222@ AP1M222@PN10	AP1M2222	1	in the Type No. A: amber G: green PW: pure white R: red S: blue W: white Y: yellow
71	24V AC/DC ±10%		AP1M222@PN10	10	
Flat (marking type)	EV DO . F0/	ADAMATER	AP1M155@	1	
	5V DC ±5%	AP1M155@	AP1M155@PN10	10	
		15/14/16	AP1M1112	1	
	12V AC/DC ±10%	AP1M1112	AP1M111@PN10	10	
	24\/ AC/DC +109/	AD4M400@	AP1M122@	1	
71 ® (€	24V AC/DC ±10%	AP1M1222	AP1M122@PN10	10	

[•] The LED cannot be removed. The lens can be removed and replaced.

Dimensions / Panel Cut-out



Terminal Arrangement (Bottom View)



Marking Plate



Engraving depth: 0.5 mm maximum Marking plate material: White acrylic

[•] Degree of protection: IP65

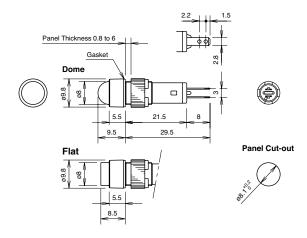
AP Series Miniature Pilot Lights

AP8M Series (ø8)

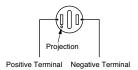
Shape	Operating Voltage	Type No.	Ordering Type No.	Package Quantity	Lens Color Code	
Dome	EV DO . E0/	A DOMOSE®	AP8M255®	1		
	5V DC ±5%	AP8M255@	AP8M255@PN10	10		
	101/ 10// 100/	A DOMOSTS	AP8M211@	1		
	12V AC/DC ±10%	AP8M211@	AP8M211@PN10	10	Specify a lens color code in place of ②	
		AP8M222@ AP8M222@PN10	AP8M2222	1	in the Type No. A: amber G: green PW: pure white R: red S: blue W: white Y: yellow	
₩ (€	24V AC/DC ±10%		AP8M222@PN10	10		
Flat	514 D.O. 504	AP8M155@	AP8M155@	1		
	5V DC ±5%		AP8M155@PN10	10		
		AP8M111@	AP8M111@	1		
	12V AC/DC ±10%		AP8M111@PN10	10		
	04V AC/DC +100/	AD0M400@	AP8M122@	1		
9 9 1	24V AC/DC ±10%	AP8M122②	AP8M122@PN10	10		

[•] The lens or LED cannot be removed or replaced.
• Degree of protection: IP40

Dimensions / Panel Cut-out



Terminal Arrangement (Bottom View)



Accessories

Shape	Туре	Material	Type No.	Ordering Type No.	Package Quantity	Remarks
Locking Ring Wrench	ø16		MT-001	MT-001	1	Used to tighten the locking ring when installing an AP unit onto an panel.
	ø12	Metal	MT-002	MT-002	1	Tighten the locking ring using a recommended tightening torque. Type No. Size
	ø10	(nickel-plated brass)	MT-003	MT-003	1	MT-001 ø18 MT-002 ø14
	ø8		MT-004	MT-004	1	MT-003 Ø12 MT-004 Ø9.5
Removal Tool		Stainless steel	MT-100	MT-100	1	Used to remove the AC adapter, DC-DC converter, or flasher unit. 90 10 10 10 10 10 10 10 10 10
Mounting Hole Plug	ø16	Metal (diecast) Locking ring (plastic)	AL-BM6	AL-BM6	1	• Degree of protection: IP65
	Ø10	Nitryl rubber (black)	AL-B6	AL-B6PN05	5	• Degree of protection: IP65
	ø12	Nitryl rubber (black)	AL-B2	AL-B2PN05	5	• Degree of protection: IP65
	ø10	Nitryl rubber (black)	AL-B1	AL-B1PN05	5	• Degree of protection: IP65
	ø8	Nitryl rubber (black)	AL-B8	AL-B8PN05	5	• Degree of protection: IP65

· Replacement Parts for AP6M/AP2M/AP1M

Shape		Туре	Type No.	Ordering Type No.	Package Quantity	Lens Color Code	
Lens	AP6M	Dome lens	AP6M-L2②	AP6M-L2@PN05	5	A (amber), G (green), R (red), W (white), Y (yellow) (Note 1)	
	AFOIVI	Flat lens	AP6M-L1@	AP6M-L1@PN05	5	A (amber), C (clear), G (green), R (red), Y (yellow) (Note 2)	
	AP2M	Dome lens	AP2M-L2②	AP2M-L2@PN05	5	A (amber), G (green), R (red), W (white), Y (yellow) (Note 1)	
	AFZIVI	Flat lens	AP2M-L1②	AP2M-L1@PN05	5	A (amber), C (clear), G (green), R (red), Y (yellow) (Note 2)	
	AP1M	Dome lens	AP1M-L2②	AP1M-L2@PN05	5	A (amber), G (green), R (red), S (blue), W (white), Y (yellow) (Note 1)	
	AFTIVI	Flat lens	AP1M-L1②	AP1M-L1@PN05	5	A (amber), C (clear), G (green), R (red), S (blue), Y (yellow) (Note 2)	
Marking Plate	AP6M		AP6M-P1W	AP6M-P1WPN05	5		
	AP2M	Flat lens	AP2M-P1W	AP2M-P1WPN05	5	White	
	AP1M		AP1M-PN1W	AP1M-PN1WPN05	5		
Diffusion Plate	AP1M	Dome lens	AP1M-PN2W	AP1M-PN2WPN05	5	White	
Terminal Cover	AP6M AP2M	AC adapter DC-DC converter Flasher unit	AP-VL3	AP-VL3	1	R 17.2 3 1 11.3 1	

Specify a lens color code in place of ② on the Ordering Type No.

Note 1: On the dome lens type, use a white (W) lens for white (W) illumination.

Note 2: On the flat lens type, use a clear (C) lens for white (W) illumination.

Safety Precautions

- Turn off power to the AP series pilot lights before installation, removal, wiring, maintenance, and inspection. Failure to turn power off may cause electrical shocks or fire hazard.
- For wiring, use wires of proper size to meet the voltage and current requirements. Improper wiring may cause overheating and

create a fire hazard. Tighten the M3 terminal screws to a torque of 0.6 to 1.0 N·m. Failure to tighten terminal screws may cause overheating and fire.

Instructions

· Panel Mounting

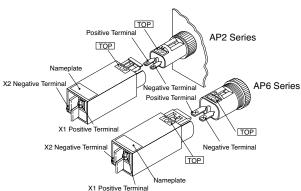
When mounting the AP series pilot lights on a panel, use the optional locking ring wrench. Do not use pliers. Excessive tightening will damage the locking ring.

Unit	Tightening Torque
AP6M	0.88 N·m
AP2M	0.78 N·m
AP1M	0.29 N·m
AP8M	0.29 N·m

• Installing the AC Adapter, DC-DC Converter, and Flasher Unit

- Make sure that the voltage rating and terminal style of the AP series pilot lights are applicable to the AC adapter, DC-DC converter, and flasher units.
- Install the pilot light into a panel cut-out before mounting an AC adapter, DC-DC converter, or flasher unit. Note that the pilot light cannot be installed in a panel cut-out with an AC adapter, DC-DC converter, or flasher unit mounted.
- 3. When installing an AC adapter, DC-DC converter, or flasher unit, make sure that the TOP marking is on the same side as the TOP making of the pilot light. AC adapter, DC-DC converter, and flasher unit are snapped on to the back of the pilot light.
- 4. To remove the AC adapter or DC-DC converter, or flasher unit, insert the tip of the removal tool into the joint hook and pull towards you as shown in the photo below.





Note: Do not apply excessive force to terminals X1 and X2 during wiring.

 When using an AC adapter or DC-DC converter, or flasher unit where the units are subjected to noise, connect a noise supressor across terminals X1 and X2 as shown in the diagram below



Wiring

- 1. Note the positive and negative polarities when wiring.
- All DC type AP series pilot lights contain a diode for protection against reverse polarity and a current limiting resistor, eliminating the need for external resistors.
- 3. Solder the terminal at 350°C within 3 seconds using a 60W soldering iron. SnAgCu type lead-free solder is recommended. When soldering, do not touch the pilot light housing with the soldering iron. Also ensure that no tensile force is applied to the terminal. Do not bend the terminal or apply excessive force to the terminal.

Use a non-corrosive rosin flux.

Marking

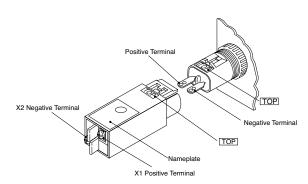
AP6M, AP2M, and AP1M round flat lenses contain a white marking plate inside the lens. (AP8M lens cannot be removed.)

· DC-DC Converter

DC-DC converters employ an electronic oscillating circuit. Oscillating sounds may be heard depending on operating conditions, but will not affect performance characteristics.

· Flasher Unit

Pierce the round mark on the nameplate on top of the flasher unit with a flat screwdriver and adjust the variable resistor inside. Turn clockwise to lengthen the flashing period.



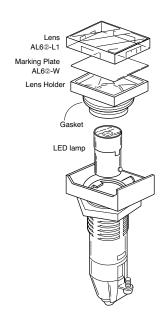
Note: Do not apply excessive force to terminals X1 and X2 during wiring.

AP6S Series Miniature Pilot Lights Ø16

Miniature Pilot Lights with Super Bright LEDs

- IDEC's LSTD LED lamps with BA9S base
- Six illumination colors: amber, green, red, blue, white, and
- Screw terminal and solder/tab terminal available
- Degree of protection: IP65
- The current-limiting resistor in the LED lamp eliminates the need for external resistors





Specifications

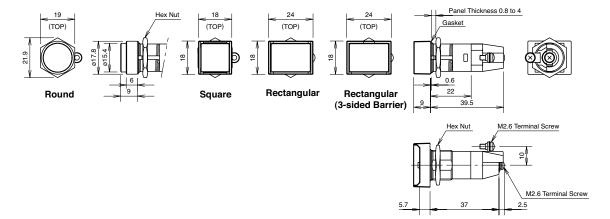
Illumination		LED					
Operating Voltage		6V AC/DC, 12V AC/DC, 24V AC/DC					
Lens Color Code		A (amber), G (green), R (red), S (blue), W (white), Y (yellow)					
Built-in LED Lamp		LSTD					
LED Lamp Type N	lo.	LSTD-6@		LSTD-12	LSTD-22		
Rated Voltage		6V AC/DC		12V AC/DC	24V AC/DC		
		A, R, W	G, S, PW	A, G, R, PW, S, W	/		
Current Draw	AC	8 mA	8 mA	11 mA	10 mA		
	DC	7 mA	5.5 mA	10 mA	11 mA		
LED Lamp Color (Code	A (amber), G (green), PW (pure white), R (red), S (blue), W (white)					
Operating Temper	ature	-20°C to +50°C (no freezing)					
Operating Humidit	ty	45 to 85% RH (no condensation)					
Insulation Resista	nce	Between live and dead metal parts: 100mΩ minimum (500V DC megger)					
Dielectric Strength	1	Between live and dead metal parts: 2000V AC, 1 minute					
Terminal Style		Screw terminal: M2.6 Tab terminal: #110 solder/tab terminal (applicable cable: 1.25 mm² max.)					
Housing Material		Black plastic					
Degree of Protection		IP65 (waterproof/oiltight) (according to IEC 60529)					
Weight (approx.)		Terminal screw type: 18g Solder/tab screw type: 9g					

Types

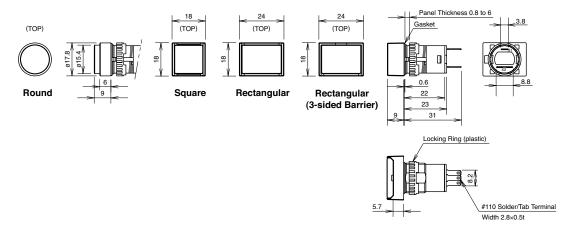
Shape	Terminal Style	Operating Voltage	Type No. (Ordering Type No.)	Lens Color Code	Built-in LED (Type No.)
Round		6V AC/DC±5%	AP6MS52@	_	LSTD-62
	Solder/Tab Terminal	12V AC/DC±10%	AP6MS53@		LSTD-12
		24V AC/DC±10%	AP6MS54@		LSTD-22
		6V AC/DC±5%	AP6MS52M@		LSTD-62
	Screw Terminal	12V AC/DC±10%	AP6MS53M®		LSTD-12
		24V AC/DC±10%	AP6MS54M®		LSTD-2②
Square		6V AC/DC±5%	AP6QS52@		LSTD-62
	Solder/Tab Terminal	12V AC/DC±10%	AP6QS53©		LSTD-12
		24V AC/DC±10%	AP6QS54@	Specify a lens color code in place of ② in the Type No. A: amber G: green R: red S: blue W: white Y: yellow	LSTD-2②
	Screw Terminal	6V AC/DC±5%	AP6QS52M2		LSTD-6②
		12V AC/DC±10%	AP6QS53M2		LSTD-1@
		24V AC/DC±10%	AP6QS54M@		LSTD-2②
Rectangular	Solder/Tab Terminal	6V AC/DC±5%	AP6HS52®		LSTD-62
<i></i>		12V AC/DC±10%	AP6HS53®		LSTD-1®
		24V AC/DC±10%	AP6HS54@		LSTD-2②
		6V AC/DC±5%	AP6HS52M@		LSTD-62
	Screw Terminal	12V AC/DC±10%	AP6HS53M@		LSTD-1@
		24V AC/DC±10%	AP6HS54M@		LSTD-2②
Rectangular with 3-sided Barrier		6V AC/DC±5%	AP6GS52@		LSTD-62
	Solder/Tab Terminal	12V AC/DC±10%	AP6GS53©		LSTD-1@
		24V AC/DC±10%	AP6GS54@		LSTD-2②
		6V AC/DC±5%	AP6GS52M2		LSTD-6@
	Screw Terminal	12V AC/DC±10%	AP6GS53M2	1	LSTD-1@
		24V AC/DC±10%	AP6GS54M@		LSTD-22

Dimensions

· Screw Terminal

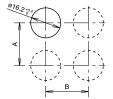


· Solder/Tab Screw Terminal



Mounting Hole Layout

All dimensions in mm.

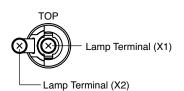


· Minimum Mounting Centers

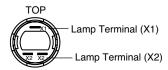
	Į.	4	В		
	Round/Square Rectangular		Round/Square	Rectangular	
Screw Terminal	23 mm	23 mm	23 mm	24 mm	
Tab Terminal	18 mm	18 mm	18 mm	24 mm	

Terminal Arrangement (Bottom View)

· Screw Terminal



· Solder/Tab Terminal



Accessories

Tools

Shape	Specification	Type No.	Ordering Type No.	Package Quantity	Remarks
Locking Ring Wrench	Metal (nickel-plated brass)	MT-001	MT-001	1	Used to tighten the locking ring when installing an AP6S unit onto a panel.
Lamp Holder Tool	Rubber	OR-55	OR-55	1	Used to install and remove LED lamps.
Lens Removal Tool	Stainless Steel	MT-101	MT-101	1	Used to remove lens and buttons.

• Replacement Parts for AP6M/AP2M/AP1M

Shape	Type No.	Ordering Type No.	Package Quantity	Remarks	
Lens	Round	AL6M-L②	AL6M-L@PN05	5	Specify a color code in place of ② in the Ordering Type No. A: amber
	Square	AL6Q-L②	AL6Q-L@PN05	5	C: clear G: green R: red
	Rectangular Rectangular with 3-sided Barrier	AL6H-L2	AL6H-L@PN05	5	S: blue Y: yellow Use a clear lens for white illumination.
Marking Plate	Round	AL6M-W	AL6M-WPN05	5	
	Square	AL6Q-W	AL6Q-WPN05	5	White
	Rectangular Rectangular with 3-sided Barrier	AL6H-W	AL6H-WPN05	5	

· LED Lamps

Operating Voltage	Current Draw		Type No. Ordering		②Illumination Color Code	Package	Base
operating vertage	AC	DC	1700110.	Type No.		Quantity	Buoo
6V DC ±10% 8 mA		7 mA (A, R, W)	LSTD-62	LSTD-6@	Specify a color code in	1	
0V DC ±10%	OIIIA	5.5 mA (G, PW, S)	L31D-0©	LSTD-6@PN10 Type No.	, ,	10	BA9S/13
12V AC/DC ±10%	.10%	10 m A	LOTE 4®	LSTD-12	A: amber G: green	1	
12V AC/DC ±10%		LSTD-1@PN10	PW: pure white R: red S: blue	10	DA93/13		
24V AC/DC ±10% 11 mA 10 mA LSTD-2②	LSTD-22	W: white Use a pure white (PW) LED	1				
	TTIIIA	TOTILA	LSTD-2©	LSTD-2@PN10	lamp with yellow (Y) lens.	10	

Safety Precautions

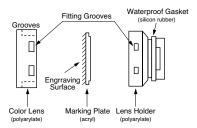
- Turn off power to the AP6S series units before installation, removal, wiring, maintenance, and inspection. Failure to turn power off may cause electrical shocks or fire hazard.
- For wiring, use wires of proper size to meet the voltage and current requirements. Improper soldering may cause overheating and create fire hazards.

Instructions

Replacing Lens and Marking Plate

· Removal

Remove the operator (color lens, marking plate, and lens holder) by holding the color lens recesses with the Lens Removal Tool (MT-101) and pulling it out. Remove the marking plate by disengaging the latches between the color lens and lens holder. The marking plate must be engraved on the front side as shown below.



Installation

Place the marking plate on the lens holder in the correct direction and press the color lens onto the lens holder to engage the latches. Insert the lens holder into the housing in the correct direction.

Marking Plate and Engraving Area

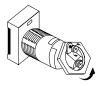
Engraving must be made on the engraving area less than 0.5mm deep.

Shape	Size	Engraving Area
Round	ø13.8 mm	ø12 mm
Square	13.8 mm	□12 mm
Rectangular	13.8×19.8 mm	12×18 mm

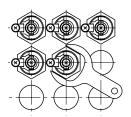
Notes on Mounting

· Screw Terminal

- Because screw terminal types use hexagonal nuts, they cannot be mounted closely together. However, rectangular units can be mounted closely when installed horizontally.
- When removing the hexagonal nuts, loosen the the terminal screws. The hexagonal nuts cannot be removed when the terminal screws are tightened.



 When mounting the pilot lights collectively, note the mounting order. Pilot lights mounted in between units cannot be removed.



· Tab Terminal

The locking ring is plastic. To tighten the ring, use an optional locking ring wrench (MT-001). Do not use pliers. Do not tighten with excessive force, otherwise the locking ring will be damaged. Tightening torque should not exceed 0.88 N·m

Collective Mounting and Continous Illumination

Collective mounting or continuous illumination of pilot lights may cause the ambient temperature to rise above the rated operating temperature. Make sure to provide efficient ventilation when the mounting panel is not metallic or when the pilot lights are mounted collectively.

Wiring

Solder the terminal at 350°C within 3 seconds using a 60W soldering iron. SnAgCu type lead-free solder is recommended. When soldering, do not touch the pilot light housing with the soldering iron. Also ensure that no tensile force is applied to the terminal. Do not bend the terminal or apply excessive force to the terminal.

Power Supply for LED Lamps

The operating voltage of the LED lamp is within $\pm 5\%$ or $\pm 10\%$ of the rated voltage. Make sure that the power voltage is within this range

Transformer

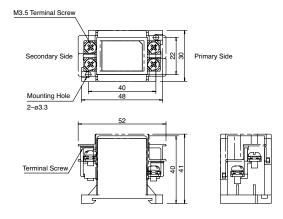
Separate Mounting Type	Primary Voltage	Secondary Voltage	Type No. (Ordering Type No.)	Applicable LED Lamp
For 24V	100/110V AC	24V AC, 0.5W	TWR512	
	200/220V AC	24V AC, 0.5W	TWR522	LSTD-22
	400/440V AC	24V AC, 0.5W	TWR542	

- A dust cover is supplied with the separate mounting type transformer.
- Connect only one LSTD LED lamp to the separate mounting type transformer.
 Use plastic mounting clip BC9Z-E/NS35N when mounting 400/440V voltage models.

Specifications

Operating Voltage	100/110V AC, 200/220V AC 400/440V AC (50/60 Hz)
Power Consumption	2.4 VA
Rated Insulation Voltage	600V
Insulation Resistance	100 MΩ minimum (500V DC megger)
Operating Temperature	-30 to +60°C (no freezing)
Relative Humidity	35 to 85% (no condensation)
Vibration Resistance	Operating extremes: 5 to 55 Hz, amplitude 0.5 mm
Shock Resistance	Damage limits: 1,000 m/s ²
Dielectric Strength	2,500V AC, 1 minute
Terminal Style	M3.5
Applicable Wire	2 mm² maximum, 2 wires maximum

Dimensions



Accessories

Description	Appearance	Description	Type No.	Ordering Type No.	Package Quantity
DIN Rail		Aluminum Weight: Approx. 200g Length: 1m	BAA1000	BAA1000PN10	
		Steel Weight: Approx. 320g Length: 1m	BAP1000	BAP1000PN10	
Mounting Clip	45	Steel Weight: Approx.15g	BNL6	BNL6PN10	10
Mounting Clip	9.5	Plastic Weight: Approx.15g	BC9Z-E/NS35N	BC9Z-E/NS35NPN10	

[•] Use plastic mounting clip BC9Z/NS35N when using 400/440V AC voltage transformers.