B-1229-1(0)

①Insert two frame nuts in the frame, and attach the bracket using two M5 screws.

Recommended tightening torque: 2.6 to 2.7 N·m

2 Mount the LD6A to the bracket using four M4 screws

INSTRUCTION SHEET . ** () LD6A Series

Confirm that the delivered product is what you have ordered. Read this instruction sheet to make sure of correct operation. Make sure that the instruction sheet is kept by the end user

SAFETY PRECAUTIONS

In this operation instruction sheet, safety precautions are categorized in order of importance to Warning and Caution

№ WARNING

Warning notices are used to emphasize that improper operation may cause severe personal injury or death.

⚠ CAUTION

Caution notices are used where inattention might cause personal injury or damage to equipment.

Read the specifications described on this sheet to make sure that the operating conditions are correct. · Before designing the final equipment and powering up the LD6A Series, confirm the specifications decribed on this sheet. If there is any uncertainty in the description, contact IDEC before powering up

·Do not disassemble, repair, or modify the LD6A Series, otherwise severe accidents may result, such as electric shocks, damage, fire, or malfunction, ·Make sure that the LD6A Series does not fall during transportation, installation, and operation, otherwise

damage may result. ·Do not pull out or push in the cable of the LD6A Series, otherwise damage may result. Give a slack to

the cable while wiring.

Turn off the power to the LD6A Series before mounting, dismounting, wiring, and assembling the LED unit. Make sure of correct wiring, otherwise electric shocks or fire may result.

-All LD6A Series are manufactured under IDEC's rigorous quality control system, but users must add failsafe provision to the control system using the LD6A Series in applications where heavy damage or personal injury may be caused in case the LD6A Series should fail.

↑ CAUTION

2 Specifications

- Apply a voltage within the rated value
- · Do not apply an excessive force to the LD6A Series. Do not leave a damaged LD6A Series unattended or use a damaged LD6A. Make sure of the correct operating temperature, which is the temperature around the LD6A Series
- Otherwise internal temperature rise may result in damage.
- Do not use or store the LD6A Series in a place subjected to vibrations and shocks.
- · Do not loosen screws, otherwise the protection characteristics will be impaired.
- · For use on a flat surface of a Type 1 enclosure.
- · Maximum surrounding air temperature rating 55°C

1 Type	!		
Tiers ————————————————————————————————————	Installation G: Frame Mount W: Wall Mount D: Direct Mount P: Pole Mount (with stand) K:Pole Mount (with L-shaped bracket)	ZQB-RYGSWC Illumination R: Red P: Y: Yellow R: Dark Gray S: Blue W: Light Gray G: Green W: Pure Whi	- Lens Color Blank: Normal C: Clear
		Function Blank:Continuous Lighting Z:Continuous Lighting,	Rated Voltage Q: 24V AC/DC

Rated Voltage	24V AC/DC Class 2			
Rated Insulation Voltage	60V			
LED Rated Current	Red, Yellow: 25 mA Green, Blue: 30 mA Pure White: 20 mA			
Power Consumption	Red, Yellow: 0.6W Green, Blue: 0.75W Pure White: 0.5W			
Applicable Standard	UL 508, CSA C22.2 No.14			
	IEC60947-5-1, EN60947-5-1, JIS C 8201-5-1			
Operating Temperature *1	-25 °C to +55 °C (no freezing)			
Operating Humidity	45 % to 85 % (no condensation)			
Storage Temperature	-40 °C to +75 °C (no freezing)			
Operating Atomosphere	Free from corrosive gases			
Operating Location	Indoor use only			
Overvoltage Category	Ⅲ (IEC 60664-1)			
	800V (IEC 60947-1 / JIS C8201-1)			
Insulation Resistance	100 MΩ minimum (500V DC megger)			
Dielectric Strength	1000V AC, 1 minute (between live and dead parts)			
Vibration Resistance	10 to 55 Hz, amplitude 0.5 mm			
(operating extremes)				
Shock Resistance	147 m/s ² , 6 shocks each in 6 directions			
Life *2	30,000 hours			
	(until the brightness reduces to 50% the initial value when lit at			
	complete direct current of the rated voltage in 25 °C environment)			
Degree of Protection	IP65:Continuous Lighting			
	IP54:Continuous Lighting, Flashing, Buzzer			
	Pole Mount (with L-shaped bracket)-without L-shaped bracket			
	IP23: Pole Mount (with L-shaped bracket)-with L-shaped bracket			
	(IEC 60529) •			
Flashing Cycle	approx. 105 cycles per minute (1.75Hz)			
Sound Pressure (at 1m)	70∼90 dB (3.3kHz)			
Buzzer Cycle	Buzzer 1: approx. 700 cycles per minute			
	Buzzer 2: approx. 35 cycles per minute			
Buzzer Power Consumption	110mA			
Buzzer Inrush Current	250mA max.(DC), 400mA max.(AC)			

- Two or more tiers including blue and green (Example: Red-Green-Blue, Green-Green-Red) Four or five tiers (Example: Red-Yellow-Green-Pure White, Red-Yellow-Blue-Green-Pure White)
 *2 Note that the durability of the LED is greatly attected by the operating conditions.
- Note that the durability of the LED and Buzzer is greatly affected by the operating conditions

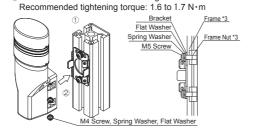
3 Mounting

·See the figure on the upper right for the installation of the LD6A series. ·For details on mounting holes, see Mounting Hole Layout.

In order to make the buzzer sound more effective, face the unit to the front.

(Continuous Lighting, Flashing, Buzzer)

■Frame Mount



*3 See below for typical examples of Frames and Nuts. Consult the manufacturer for the installation method of the frame nut.

·Examples of recommended frames and frame nuts

Frame Size	Frame	Frame Nut	Manufacturer
□30 mm *4	SFF-302	SFB-001 SFB-4B5 SFB-101	SUS Corporation
□40 mm	SFF-402	SFB-008 SFB-4A5 SFB-108	SUS Corporation

· For Frame Mount

Use flexible conduit only, otherwise the waterproof characteristic will be impaired.

Refer to the "Example of Flexible Conduit" shown below.

· Example of Flexible Conduit

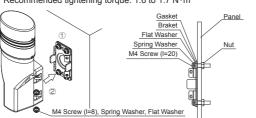
Conduit hole Size Fitting Conduit Manufacturer M20 AL16/M20/A/BL PAFS16BL ADAPTAFLEX

Wall Mount

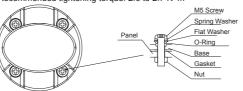
①Make four tapped holes in the mounting panel, and mount the bracket and gasket using four screws (M4 x 20).

Recommended tightening torque: 1.6 to 1.7 N·m

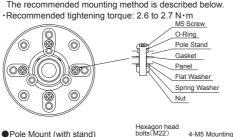
2 Mount the LD6A to the bracket using four screws (M4 x 8). Recommended tightening torque: 1.6 to 1.7 N·m



Direct Mount •Recommended tightening torque: 2.6 to 2.7 N·m



■Pole Mount ·The pole mount type can be installed in four ways The recommended mounting method is described below.



·Installing without L-shaped bracket

Direct Mount

Remove the bushing, hexagonal nut (M22), plain washer, and L-shaped bracket from the pole. Install in order of plain washer, hexagonal nut (M22), and bushing as shown in the figure at the right. •Recommended tightening torque(M10): 10 to 11 N·m Recommended tightening torque(M22): 25 to 26 N⋅m •The parts marked with * are not supplied and should be

with L-shaped bracket Mounting Hole Layout (Dimensions in mm)

Spring Washer* √ Flat Washer* Flat Washe Hexagon hear bolts (M22) Hexagon head bolts* Bushing without L-shaped bracket

Wiring hole Pole Mount with L-shaped bracket

without L-shaped bracket Pole Mount (with L-shaped bracket)

Supplied Parts

(Frame Mount)

M4 Screw

Spring Washer

Spring Washer

Flat Washer

Flat Washer

M5 Screw

Bracket

Fitting

Supplied Parts

(Wall Mount)

M4 Screw (I=20)

Flat Washer (M4)

Spring Washer (M4): 8

Supplied Parts

(Direct Mount)

Flat Washer (M5) : 4 Nut (M5) : 4

Supplied Parts

(Pole Mount)

4-M4 Mounting Hole

3-M4 Mounting Hole

4-M5 Mounting Hole

Spring Washer (M5): 4

Flat Washer (M5)

M4 Screw (I=8)

M5 Screw Spring Washer(M5): 4

Nut (M5)

O-Ring

M5 Screw

Nut (M5) O-Ring

Gaske

Pole Stand

Nut (M4)

Bracket

Gasket

·Mount the LD6A light on a flat surface not subjected to vibrations.

·Do not mount the LD6A light upside-down or horizontally.

2-M4 holes for hexagon socket set screw ·Do not leave the LD6A unit without a cap or unassembled.

Install the supplied gasket, otherwise waterproof characteristic is

·Mount the LD6A light on a flat surface, otherwise waterproof characteristic is impaired.

· Do not apply any chemicals which may corrode the plastic material

· Deburr the wiring holes.

·Do not loosen the screws for which tightening torque is not specified. ·If the LD6A light is subjected to strong vibrations, the hexagon

socket set screws may become loose. Apply screw lock paint. See the figure at right.

4 Assembling the LED Units

·Turn off the power. Remove the cap. Insert a flat screwdriver into the slot.

Use a screwdriver 1-mm thick and 7-mm wide maximum.

·Pull out the cap by hand.

·Loosen the screw in center

·Rearrange the LED units.

·When assembling the LED unit make sure to a light the recess of the can with the recess of the LED unit.

Otherwise, damage may result. Screw tightening torque



↑ CAUTION

·Tighten the screws to the recommended tightening torque. The LED unit may be damaged if the screw is loose during operation.

•Do not touch the metal tabs of the LED unit. When a hand touches the metal tabs, static electricity may damage the LED elements inside.

·Use a maximum of 5 tiers.

·Use an appropriate screw depending on the number of tiers. (optional)

·Note the correct orientation when assembling the LED units.

•Do not remove the packing from the LED unit. Waterproof characteristics will be impaired. 5 Sound pressure adjustment (Continuous Lighting, Flashing, Buzzer)

Move the sound pressure lever to the right and left to adjust the sound pressure.

The sound pressure is at maximum when the lever is set to the right.

♠ CAUTION

·The sound pressure adjustment lever may be damaged if it is forcibly moved.

6 Wiring

⚠ CAUTION

 Connect the wires as shown below. Incorrect wiring may damage the internal circuit. ·Connect the wires to external contacts as needed for the number of tiers.

·When using four tiers or less, insulate the unused wires.

·Connect an appropriate fuse to the power line as shown in the figure below.

Use a UL listed external fuse holder.

·Use a Class 2 power supply only. ·When using the same color for two or more tiers, only one wire is used to light all tiers of the same color.

Determine the contact capacity in consideration of the LED rated current.

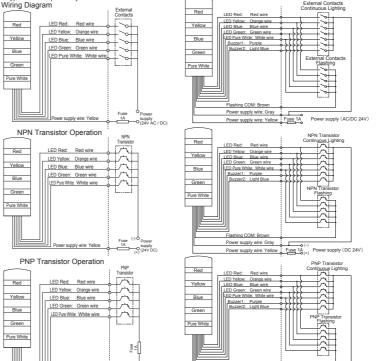
·Do not apply voltage to flashing (brown) lines.

Do not connect flashing (brown) lines with power lines. The internal circuit may be damaged.

Do not turn on the continuous lighting and flashing contacts simultaneously. Use separate outside contacts.

·When operating several continuous lighting, flashing, buzzer type units simultaneously, use separate outside

contacts. ·When using buzzers 1 and 2 simultaneously, use separate outside contacts for continuous lighting and buzzer type units respectively.



Wire Color Wire Color LED Unit Color - Red Red LED Unit Color - Yellow Orange LED Unit Color - Blue Blue LED Unit Color - Green Green White LED Unit Color - Pure White Power supply wire

Continuous Lighting, Flashing, Buzzer Wire Color LED Unit Color - Red Red Orange LED Unit Color - Blue Blue ED Unit Color - Greer Green ED Unit Color - Pure White White Buzzer1 Purple Light Blue luzzer2 Power supply wire Gray Power supply wire

Wire size : AWG22

Rated current 1A

	Rated Contact for Continuous Lighting			Rated Contact for Buzzer		
for AC		Current Capacity		f AO	Current Capacity	400 mA minimum
	(per one tire)	Dielectric Strength	AC 35V minimum		Dielectric Strength	AC 35V minimum
for DC		Current Capacity	100 mA minimum		Current Capacity	300 mA minimum
	tor DC/	Dielectric Strenath	35V minimum	for DC/	Dielectric Strenath	35V minimum

(per Con for D (per one tire) Leakage Current 0.1 mA maximum (per one sound) Leakage Current 0.1 mA maximum



· Continuous Lighting

Pole Mount ·Frame Mount ·Wall Mount ·Direct Mount ·Pole Mount (with L-shaped bracket)

Dimensions

Tiers	Frame Mount	Wall Mount	Direct Mount	Pole Mount		
	(L1)	(L2)	(L3)	(L4)	(L5)	
1	156	156	98	408	372	
2	186	186	128	438	402	
3	216	216	158	468	432	
4	246	246	188	498	462	
5	276	276	218	528	492	

·Pole Mount

·Continuous Lighting, Flashing, Buzzer ·Frame Mount ·Wall Mount ·Direct Mount

(with L-shaped bracket) (with stand) 17.4 25

•Dimensions Tiers Frame Mount Wall Mount Direct Mount Pole Mount (L2) (L3) 480 444 228 228 170 2 258 258 200 510 474 288 540 4 318 318 570 534 260

7 Precautions for Disposal

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Dispose of the LD6A Series as an industrial waste

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600

·Pole Mount

564

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Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

IDEC:

LD6A-2DQB-GW LD6A-3DZQW-SRG LD6A-3WQB-SSS LD6A-3WQW-RGS LD6A-3WZQB-RSG LD6A-4DQB-RSWG LD6A-3WZQW-RYG-KIT LD6A-3WZQW-SRG-KIT LD6A-2WQB-YG LD6A-2WZQW-SS LD6A-3WZQW-SRG