ø6·7·8·9·10 UP Series Miniature Pilot Lights

Available in Various Sizes

- Five illumination colors: amber, green, red, white, yellow
- Various sizes and design.
- Available with a built-in current limiting resistor.
- Degree of protection: IP65 (ø9 and ø10)
- Panel thickness 0.6 to 4 mm (built-in current limiting resistor type 0.6 to 6 mm)

Specifications

Without a Built-in Current Limiting Resistor

	Transac a Bane in Garrent Emiling Flooreton					
Color Code	A (amber), G (Green), Red (R), W (white), Y (yellow)					
Rated Current	10 mA (Amber, Green, Red, Yellow) 15 mA (White)					
Forward Current	20 mA maximum at 25°C					
Reverse Voltage	3V maximum at 25°C					
Power Consumption	60 mW maximum at 25°C					
Operating Temperature	-20 to +55°C					
Storage Temperature	-25 to +80°C					
Forward Voltage	Maximum value: 3V Standard value: 2V (forward current: 10 mA)					
Dielectric Strength	Between live and dead parts: 500V AC, 1 minute					

 Approx. 30,000 hours (until the brightness reduces to 50% of the initial value when lit at complete direct current the rated voltage under 25°C environment.)

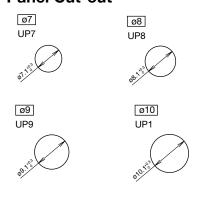
With a Built-in Current Limiting Resistor

U					
Color Code	A (amber), G (Green), Red (R), W (white), Y (yellow)				
Operating Voltage	12V DC±10%, 24V DC±10%				
Rated Current	15 mA				
Operating Temperature	-20 to +55°C (no freezing)				
Storage Temperature	-25 to +80°C (no freezing)				
Operating Humidity	45 to 85% RH (no condensation)				
Dielectric Strength	Between live and dead parts: 500V AC, 1 minute				

 Approx. 30,000 hours (until the brightness reduces to 50% of the initial value when lit at complete direct current the rated voltage under 25°C environment.)



Panel Cut-out



All dimensions in mm.

Weight (example)

	5g (UP7-1277)
Weight (approx.)	6g (UP8-2487)
Weight (approx.)	7g (UP9-2497)
	8g (UP1-2417)

ø7 UP7 Series

Shape	Operating Voltage	Degree of Protection	Part No.	Ordering No.	Color Code	Dimensions	Package Quantity												
Shroud (with resistor)	12V DC		UP7-1277@	UP7-1277@		M7 P0.75 Panel Thickness 0.6 to 6	1												
	±10%		UF7-1217@	UP7-1277@PN10		8 8 8	10												
	24V DC			UP7-2477@		White 24.3	1												
(+) O—W————— (-)	±10%		UP7-2477@	UP7-2477@PN10		Paint (+) 29.8 3	10												
Dome (with resistor)	12V DC	IP40 -													UP7-12782	UP7-1278@	Specify a color code in place of @in the Part No.	Panel Thickness 0.6 to 6	1
	±10%		OF7-1276@	UP7-1278@PN10	A: amber		10												
	24V DC		IP40	UP7-24782	UP7-2478@	G: green R: red W: white	White 22.6	1											
(+) O—W———— (-)	±10%		OF7-2476@	UP7-2478@PN10	Y: yellow	Paint (+) 28.1 4	10												
Deep Shroud (with resistor)	12V DC		UP7-1279@	UP7-1279@		Panel Thickness 0.6 to 6	1												
	±10%		UF7-1279@	UP7-1279@PN10			10												
	24V DC		UP7-2479@	UP7-2479@		White 23.3	1												
(+) O (-)	±10%		UP1-2419@	UP7-2479@PN10		Write Paint (+) 28.8 4	10												

Ø8 UP8 Series

Shape	Operating Voltage	Degree of Protection	Part No.	Ordering No.	Color Code	Dimensions (mm)	Package Quantity
Shroud			UP8-872	UP8-87@		M8 P0.73 Panel Thickness 0.6 to 4	1
(+) O————— (-)	_		UF0-01@	UP8-87@PN10	Specify a color	21.8 3	10
Shroud (with resistor)	12V DC		UP8-1287@	UP8-1287@	Specify a color code in place of ② in the Part No.	Panel Thickness 0.6 to 6	1
	±10%	- IP40	UP6-1267@	UP8-1287@PN10	A: amber		10
	24V DC		11 40	UP8-2487@	UP8-2487② R: red 12 12 1		1
(+) O—W———— (-)	±10%		UP6-2467@	UP8-2487@PN10		White Paint (+) 25.3 30.8 3	10
Dome			UP8-882	UP8-882		(+) Terminal Panel Thickness 0.6 to 4	1
(+) 0 (-)	_		UP0-00@	UP8-88@PN10		19.5 4.5	10

Note: For UP series pilot lights without built-in current limiting resistors, connect an external resistor in series. Otherwise, the LED may be damaged.

Ø8 UP8 Series

Shape	Operating Voltage	Degree of Protection	Part No.	Ordering No.	Color Code	Dimensions (mm)	Package Quantity
Dome (with resistor)	12V DC		LID0 1000®	UP8-12882		Panel Thickness 0.6 to 6	1
	±10%		UP8-1288@	UP8-1288@PN10			10
	24V DC		UP8-2488@	UP8-2488@		White 23	1
(+) ○───────────── (-)	±10%		01 0-2400@	UP8-2488@PN10		Paint (+) 28.5 4.5	10
Deep Shroud		ID40	UP8-892	UP8-892	Specify a color code in place of ② in the Part No. A: amber	(+) Terminal Panel Thickness 0.6 to 4	1
(+) O (-)	_	IP40	OF 0-03@	UP8-89@PN10	G: green R: red W: white Y: yellow	9 9 11.8 9.8 5	10
Deep Shroud (with resistor)	12V DC		UP8-1289@	UP8-1289@		M8 P0.75 Panel Thickness 0.6 to 6	1
	±10%		UP6-1269@	UP8-1289@PN10			10
	24V DC		UP8-2489@	UP8-2489@		White 23.3 23.3	1
(+) 0—\\\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	±10%		OI-0-2409@	UP8-2489@PN10		Paint (+) 28.8 5	10

Note: For UP series pilot lights without built-in current limiting resistors, connect an external resistor in series. Otherwise, the LED may be damaged.

ø9 UP9 Series

Shape	Operating Voltage	Degree of Protection	Part No.	Ordering No.	Color Code	Dimensions (mm)	Package Quantity
Shroud		IP40	UP9-97@	UP9-97@		(+) Terminal Panel Thickness 0.6 to 4	1
		11740	0F9-97@	UP9-97@PN10			10
	_	IP65	UP9P-97@	UP9P-97@			1
(+) 0 (-)		IF65	0F9F-97@	UP9P-97@PN10		14.8 22.8 3	10
Shroud (with resistor)	12V DC	IP40	UP9-1297@	UP9-1297@ UP9-1297@PN10		M9 P0.75 Panel Thickness 0.6 to 6	1 10
	±10%	IP65	UP9P- 1297@	UP9P-1297@ UP9P-1297@PN10		8 5	1 10
	24V DC	IP40	UP9-2497@	UP9-2497@PN10 UP9-2497@PN10			1 10
(+) ○─W -→ -○ (−)	±10%	IP65	UP9P- 2497@	UP9P-2497@ UP9P-2497@PN10		White Paint (+) 26.3 31.8 3	1 10
Dome		IP40	UP9-98@	UP9-98@	Specify a color code in place of a in the Part No.	M9 P0.75 Panel Thickness 0.6 to 4	1
		11 40	019-90@	UP9-98@PN10	A: amber		10
	_	IP65	UP9P-98@	UP9P-98@	G: green R: red W: white	9	1
(+) 0 (-)		11 00	01 31 30@	UP9P-98@PN10	Y: yellow	20 5 20 5	10
Dome (with resistor)	12V DC	IP40	UP9-12982	UP9-1298@ UP9-1298@PN10		M9 P0.75 Panel Thickness 0.6 to 6	1 10
	±10%	IP65	UP9P- 1298②	UP9P-1298@ UP9P-1298@PN10			1 10
	24V DC	IP40	UP9-2498@	UP9-2498@ UP9-2498@PN10		White 23.5	1 10
(+) O—W———— (-)	±10%	IP65	UP9P- 2498@	UP9P-2498@ UP9P-2498@PN10		Paint (+) 29 5	1 10
Deep Shroud		IP40		UP9-99@		Panel Thickness 0.6 to 4	1
		IP4U	UP9-99@	UP9-99@PN10			10
	_	IP65	UP9P-992	UP9P-99@		9	1
(+) 0 (-)		IFOO	0696-990	UP9P-99@PN10		12.8 20.8 5	10

Note: For UP series pilot lights without built-in current limiting resistors, connect an external resistor in series. Otherwise, the LED may be damaged.

ø9 UP9 Series

Shape	Operating Voltage	Degree of Protection	Part No.	Ordering No.	Color Code	Dimensions (mm)	Package Quantity
Deep Shroud		IP40	UP9-1299@	UP9-1299@	Specify a color	M9 P0.75 Panel Thickness 0.6 to 6	1
(with resistor)	12V DC	11740	UF9-1299@	UP9-1299@PN10	code in place of	80 60 110	10
	±10%	IP65	UP9P-1299@	UP9P-12992	② in the Part No.		1
		1505	UF9F-1299@	UP9P-1299@PN10	A. amah au		10
		IP40	UP9-2499@	UP9-2499@	A: amber G: green		1
	24V DC	11240	UP9-2499@	UP9-2499@PN10	R: red	White 24.3	10
(+) O—W———— (-)	±10%	IP65	UP9P-2499@	UP9P-2499@	W: white	Paint (+) 29.8 5	1
(+) ○─W─► (−)		1500	UF9F-2499@	UP9P-2499@PN10	Y: yellow	1	10

Note: For UP series pilot lights without built-in current limiting resistors, connect an external resistor in series. Otherwise, the LED may be damaged.

Ø10 UP1 Series

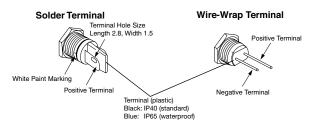
Shape	Operating Voltage	Degree of Protection	Part No.	Ordering No.	Color Code	Dimensions (mm)	Package Quantity
Shroud				UP1-17@		M10 P1.0 Panel Thickness 0.6 to 4	1
		IP40	UP1-17@	UP1-17@PN10		(+) Terminal	10
	_	IP65	UP1P-172	UP1P-17@			1
(+) O (-)				UP1P-17@PN10		22.8 3	10
Shroud (with resistor)		IP40	UP1-1217@	UP1-1217@		M10 ^{P1.0} Panel Thickness 0.6 to 6	1
	12V DC		02	UP1-1217@PN10		80	10
ASSET P	±10%	IP65	UP1P-1217@	UP1P-1217@			1
		00	0	UP1P-1217@PN10			10
		IP40	UP1-2417@	UP1-2417@			1
	24V DC			UP1-2417@PN10		White 26.3	10
(+) O—W———— (-)	±10%	IP65	UP1P-2417@	UP1P-2417@		Paint (+) 31.8 3	1
(+) 0→γγγ→□0 (−)			01 11 2117	UP1P-2417@PN10		1 11	10
Dome		IP40	UP1-182	UP1-18@		M10 ^{P1.0} Panel Thickness 0.6 to 4 (+) Terminal	1
	_		G	UP1-18@PN10			10
		IP65	UP1P-18@	UP1P-18@	Specify a color code in place of ② in the Part No. A: amber		1
(+) ○ → ○ (-)				UP1P-18@PN10		12 20 5.5	10
Dome (with resistor)		IP40	UP1-1218@	UP1-12182	G: green	M10 P1.0 Panel Thickness 0.6 to 6	1
~77	12V DC	11740	OF 1-1210@	UP1-1218@PN10	R: red	80	10
	±10%	IP65	UP1P-12182	UP1P-1218@	W: white Y: yellow		1
		11 00	01 11 -1210@	UP1P-1218@PN10	1. yonow		10
		IP40	UP1-2418@	UP1-2418@			1
	24V DC	40	01 1 24108	UP1-2418@PN10	,	White 23	10
(+) 0—W———— (-)	±10%	IP65	UP1P-2418@	UP1P-2418@		Paint (+) 28.5 5.5	1
(+) ○─₩─►○ (−)		00	01 11 21109	UP1P-2418@PN10		1 1 1	10
Deep Shroud		IP40	UP1-192	UP1-19@		M10 P1.0 Panel Thickness 0.6 to 4 (+) Terminal	1
	_		6	UP1-19@PN10			10
		IP65	UP1P-192	UP1-19@			1
(+) O (-)		COPII	0.11 109	UP1-19@PN10		20.8 5	10
Deep Shroud		IP40	UP1-12192	UP1-1219@		M10 P1.0 Panel Thickness 0.6 to 6	1
(with resistor)	12V DC	IF 40	01-12-13/2	UP1-1219@PN10]	80 010	10
	±10%	IP65	UP1P-1219@	UP1P-1219@			1
	F	IFOS	UP IF-1219@	UP1P-1219@PN10			10
		ID40	LID1 2/10@	UP1-2419@			1
	24V DC	4V DC IP40	IP40 UP1-2419@	UP1-2419@PN10		White 24.3	10
17	±10%	IP65	UP1P-2419@	UP1P-2419@		Paint (+) 29.8 5	1
(+) O—W———— (-)		IF 00	OF 1F-2419@	UP1P-2419@PN10			10

Note: For UP series pilot lights without built-in current limiting resistors, connect an external resistor in series. Otherwise, the LED may be damaged.

Instructions

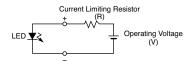
Polarity

Pay attention to the polarity of the power supply as UP series units do not contain a diode for protection against reverse polarity. On solder terminal units, the terminal with a white paint marking is positive. On wire-wrap terminal units, the long terminal is positive and the short terminal is negative.



Current Limiting Resistor

When using a UP series unit without a built-in current limiting resistor, connect an external current limiting resistor. Calculate the resistance using the following formula.



* Rated Current (I) = 10 mA, except white color at 15 mA

Note: Use a resistor of higher resistance than the calculated value (R).

Rated Wattage of Resistor (W) = Rated Current
$$\times$$
 Operating Voltage (V) \times 2 to 3 *

* 2 to 3 is a safety factor

Reference Value of Current Limit Resistor

Color Operating Voltage	Amber, Green, Red, Yellow	White
5V DC	300Ω (1/4W)	200Ω (1/4W)
6V DC	390Ω (1/4W)	270Ω (1/4W)
12V DC	1000Ω (1/4W)	680Ω (1/4W)
24V DC	2200Ω (1/2W)	1500Ω (1/2W)

Waterproof Type

The degree of protection is distinguished by the color of the terminal.

Terminal (Plastic)	Degree of Protection
Black	IP40
Blue	IP65

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 terminal. Do not bend the terminal or apply excessive force to the terminal.

Notes on Operating Voltage

The rated operating voltage represents a complete DC value. When using a pulsating voltage such as a full-wave reticification voltage, keep peak currents within the forward current Ir. Peak currents exceeding Ir may shorten the life of the LED lamp.

Panel Mounting

When mounting UP series units on to the panel, refer to the table below for the recommended tightening torque. Do not tighten with excessive force, otherwise the locking ring will be damaged.

Model	Recommended Tightening Torque
UP7	0.39 N·m
UP8	0.49 N·m
UP9	0.59 N·m
UP9P	0.29 N·m
UP1	0.59 N·m
UP1P	0.29 N·m

UP Series Miniature Pilot Lights (Single Board Mounting)

Single board mounting for miniature LEDs. Same length as H6, L6, and LW series control units

• Five illumination colors: amber, green, red, white, yellow

Specifications

Rated Current	10 mA (Amber, Green, Red, Yellow) 15 mA (White)		
Forward Current	20 mA maximum at 25°C		
Reverse Voltage	3V maximum at 25°C		
Power Consumption	n 60 mW maximum at 25°C		
Operating Temperature	-20 to +55°C (no freezing)		
Storage Temperature	-25 to +80°C (no freezing)		
Forward Voltage	Maximum value: 3V Standard value: 2V (forward current: 10 mA)		
Dielectric Strength	Between live and dead parts: 500V AC, 1 minute		
Weight (approx.)	6g (UP8-89V)		



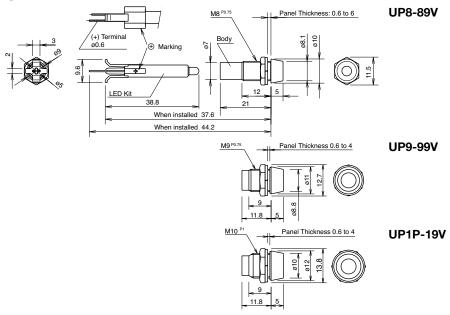
ø8 ø9 ø10 UP8 / UP9P / UP1P

М	ounting Hole Size	Shape	Degree of Protection	Part No.	Ordering No.	Color Code	Package Quantity
ø8	UP8	Deep shroud	IP40	UP8-89V2	UP8-89V@PN10	A: amber G: green	10
ø9	UP9	Deep shroud	IP65	UP9P-99V2	UP9P-99V@PN10	R: red	10
ø10	UP1P	Deep shroud	IP65	UP1P-19V2	UP1P-19V@PN10	W: white Y: yellow	10

[•]Specify a color code in place of ② in the Part No.

Note: Connect an external current limiting resistor in series. Otherwise, the LED may be damaged.

Dimensions

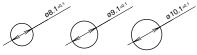


All dimensions in mm.

PC Board Mounting Hole







Internal Circuit



The longer pin is the positive terminal

Safety Precautions

- •Turn off power to the unit before installation, removal, wiring, maintenance, and inspection. Failure to turn off may cause electrical shocks or fire hazard.
- For wiring, use wires of a proper size to meet the voltage and current requirements.
- Improper soldering or failure to tighten the terminal screw may cause overheating and fire.

Instructions

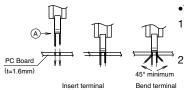
Single Board Mounting

UP series miniature pilot light single board mounting types can be mounted with H6, L6, LW series control units on the same panel. Follow the instructions below on LED Kit UP Unit

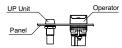
single board mounting.



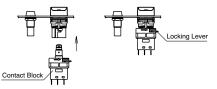
1. Mount the LED kit to the PC board.



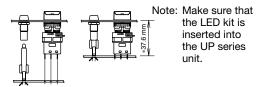
- Temporary mounting
- Note the polarity of the terminals and insert the terminals to the PC board.
 Make sure that part A of
- Make sure that part A of the LED kit is pressed tightly to the PC board. Bend the terminals sideways as shown on the left.
- Mount the operator and the UP series pilot lights on to the control panel.



3. Mount the contact block to the operator of the miniature control unit and lock the unit by turning the locking lever.



4. Install the PC board in 1. to the panel in 3.



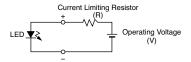
- 5. Solder the terminals.
 - Before soldering, make sure that each terminal of the contact block is securely inserted into the PC board holes.
- * When mounting H6, L6, LW, and UP series on a single board, make sure that the distance between the front of the panel and the mounting side of the PC board is 37.6 mm.

Polarity

Pay attention to the polarity of the power supply as UP series units do not contain a diode for protection against reverse polarity. The long terminal is positive and the short terminal is negative.

Current Limiting Resistor

When using a UP series unit without a built-in current limiting resistor, connect an external current limiting resistor. Calculate the resistance using the following formula.



Resistance (R) =
$$\frac{\text{Operating Voltage (V)} - 2}{\text{Rated Current (I)}} *$$

* Rated Current (I) = 10 mA, except white color at 15 mA

Note: Use a resistor of higher resistance than the calculated value (R).

$$\begin{array}{l} \text{Rated Wattage} \\ \text{of Resistor (W)} \end{array} = \begin{array}{l} \text{Rated Current} \\ \text{(I)} \end{array} \times \begin{array}{l} \text{Operating} \\ \text{Voltage (V)} \end{array} \times 2 \text{ to } 3 * \\ \end{array}$$

* 2 to 3 is a safety factor

Current Limiting Resistor Reference Value

Color Operating Voltage	Amber, Green, Yellow, Amber	White
5V DC	300Ω (1/4W)	200Ω (1/4W)
6V DC	390Ω (1/4W)	270Ω (1/4W)
12V DC	1000Ω (1/4W)	680Ω (1/4W)
24V DC	2200Ω (1/2W)	1500Ω (1/2W)

Wiring

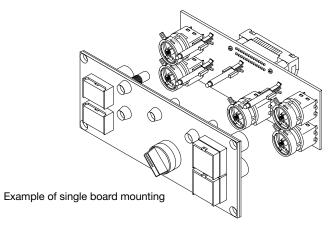
Solder the terminal at 350°C within 3 seconds using a 60W soldering iron. SnAgCu type lead-free solder is recommended. When soldering, do not touch the pilot light housing with the terminal. Do not bend the terminal or apply excessive force to the terminal.

Notes on Panel Mounting

Use an optional locking ring wrench to mount the unit onto a panel. Tightening torque should not exceed 0.5 N·m. Do not use pliers. Do not tighten with excessive force, otherwise the locking ring will be damaged.

PC Board and Circuit Design

Use glass epoxy copper clad laminate, double-sided through-hole PC boards with a thickness of 1.6 mm.



EP5042A UP July 2024

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The warranty period for IDEC products shall be one (1) year after purchase or delivery to the specified location. However, this shall not apply in cases where there is a different specification in the Catalogs or there is another agreement in place between you and IDEC.

(2) Warranty scope

Should a failure occur in an IDEC product during the above warranty period for reasons attributable to IDEC, then IDEC shall replace or repair that product, free of charge, at the purchase location / delivery location of the product, or an IDEC service base. However, failures caused by the following reasons shall be deemed outside the scope of this warranty.

- The product was handled or used deviating from the conditions / environment listed in the Catalogs
- The failure was caused by reasons other than an IDEC product
- Modification or repair was performed by a party other than IDEC
- The failure was caused by a software program of a party other than iv **IDEC**
- v. The product was used outside of its original purpose
- Replacement of maintenance parts, installation of accessories, or the like was not performed properly in accordance with the user's manual and
- vii. The failure could not have been predicted with the scientific and technical standards at the time when the product was shipped from
- viii. The failure was due to other causes not attributable to IDEC (including cases of force majeure such as natural disasters and other disasters) Furthermore, the warranty described here refers to a warranty on the IDEC product as a unit, and damages induced by the failure of an IDEC product are excluded from this warranty.

5. Limitation of liability

The warranty listed in this Agreement is the full and complete warranty for IDEC products, and IDEC shall bear no liability whatsoever regarding special damages, indirect damages, incidental damages, or passive damages that occurred due to an IDEC product.

6. Service scope

The prices of IDEC products do not include the cost of services, such as dispatching technicians. Therefore, separate fees are required in the following cases.

- (1) Instructions for installation / adjustment and accompaniment at test operation (including creating application software and testing operation, etc.)
- (2) Maintenance inspections, adjustments, and repairs
- (3) Technical instructions and technical training
- (4) Product tests or inspections specified by you

The above content assumes transactions and usage within your region. Please consult with an IDEC sales representative regarding transactions and usage outside of your region. Also, IDEC provides no guarantees whatsoever regarding IDEC products sold outside your region.

IDEC CORPORATION

Head Office 6-64, Nishi-Miyahara-2-Chome, Yodogawa-ku, Osaka 532-0004, Japan

IDEC (Shanghai) Corporation

IDEC Corporation

 ☐ www.idec.com

USA **EMEA**

IDEC Corporation APEM SAS

Singapore Thailand India

IDEC Izumi Asia Pte. Ltd IDEC Asia (Thailand) Co., Ltd. IDEC Controls India Private Ltd. China

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