



IDEC Surface Mount LED Spider Lights



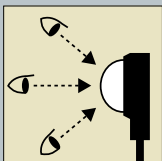
800-262-IDEC

www.IDEC.com/usa/SpiderLights

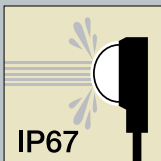
(Actual Size)

DOMELENS

IDEC-LED-Spider

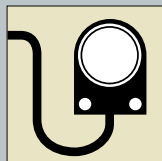


Good Visibility
From the front
and the side.

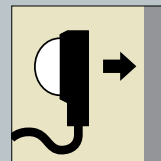


IP67

IP67 Protection
Can be used in
environments
exposed to
water.



Cable Wiring
Direct wiring
ensures
waterproof
characteristics.



Direct Surface Mounting
Requires only a small
space behind the mounting
surface. Can be installed
without concern for other
components behind mount-
ing area.

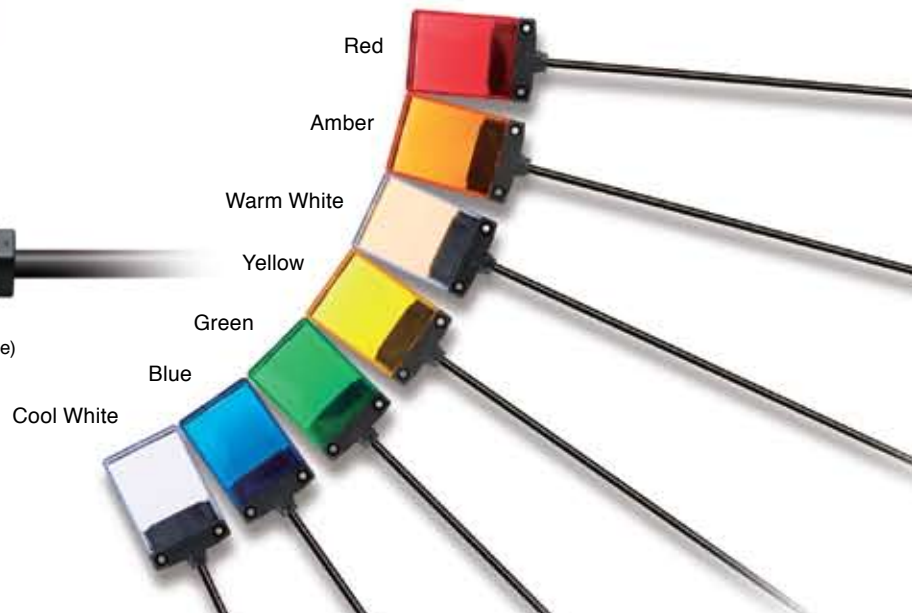
Surface Mount Indicators LH Series

New type of indicator for mounting on
equipment or panel surfaces

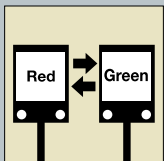


FLAT LENS

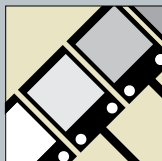
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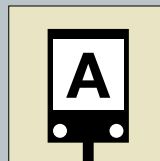
Red/green two color alternate lights also available.



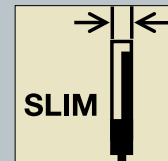
Red/Green
Two-color
alternate
illumination
available.



Seven Colors
Amber, blue,
green, cool white,
red, warm white,
& yellow.



Legends
Marking film can
be inserted into
the flat type lens.



Slim Profile
Can be installed
in small areas
easily.

LH Series Surface Mount Indicators

Innovative indicators in a slim & stylish design.
Reduces installation space.

- Direct mounting on surfaces such as panels, aluminum frames, and walls using screws.
- Surface mount style does not affect the placement of other components. Requires only a small space behind the mounting surface for screws and nuts.
- Slim design well suited for installation in small spaces.
- Direct cable wiring style ensures waterproof characteristics. 1m, 3m, and 5m cables available.
- IP67 (IEC60529) rated.
- Excellent visibility from the front and from the side.
- Legends and symbols can be printed on marking film to customize flat type.
- Red/Green two-color alternate illumination available.



Standards

Standards	Marks	File No. or Organization
EN 60598-2-1		TÜV SÜD
EN 60598-2-1 EN 60947-5-1		EC Low Voltage Directive
E68961		UL, cUL

LH series surface mount indicators are approved by TÜV as class III lighting fixtures.

Specifications

Rated Insulation Voltage (Ui)	32V
Rated Voltage	24V AC/DC
Operating Voltage Range	24V AC/DC $\pm 10\%$
Rated Current	17 mA
Maximum Current Draw	0.6W (25 mA)
Illumination Color	A (amber), G (green), PW (cool white), R (red), S (blue), W (warm white), Y (yellow) R (red) /G (green) alternate
LED Lamp Life	Approx. 50,000 hours (When used on complete DC at 25°C, brightness reduces to 50% of the initial intensity.)

Specifications

Applicable Standards	IEC 60947-1, IEC 60947-5-1, EN 60598-2-1, EN 60947-5-1 UL508, CSA C22.2 No. 14
Operating Temperature	-20 to +55°C (no freezing)
Operating Humidity	45 to 85% RH (no condensation)
Storage Temperature	-30 to +80°C (no freezing)
Impulse Withstand Voltage (illuminating part)	800V
Insulation Resistance	Between live and dead parts: 100 M Ω minimum
Dielectric Strength	Between live and dead parts: 2000V, 50/60Hz, 1 minute
Pollution Degree	3
Vibration Resistance	60m/s ² , 5 to 55 Hz, amplitude 0.5 mm
Shock Resistance	1000m/s ²
Cable Tensile Strength	90N minimum
Degree of Protection	IP67 (IEC 60529)
Housing Color	Black
Cable	UL20276, 24 AWG 2-core (one-color) 3-core (2-color alternate)
Cable Outside Diameter	$\phi 4.1$ mm
Allowable Cable Bending Radius	24.6mm minimum
Weight	50g (1m cable)



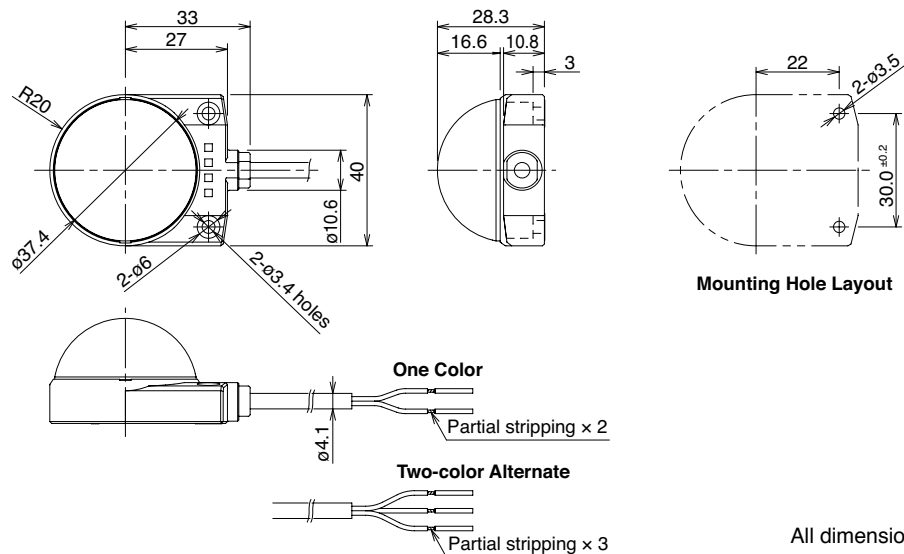
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Dome Type

Part Numbers

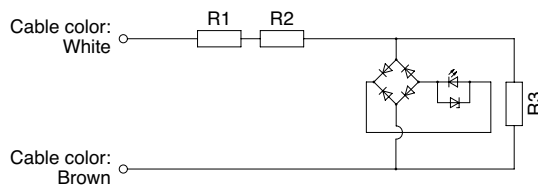
Shape	Cable	Part No.	② Illumination Color
Dome ø37 One Color 	1m	LH1D-D2HQ4C10-②	Specify a color code in place of ② in the Part No. A: amber G: green PW: cool white R: red S: blue W: warm white Y: yellow
	3m	LH1D-D2HQ4C30-②	
	5m	LH1D-D2HQ4C50-②	
Dome ø37 Red/Green 2-color alternate 	1m	LH1D-D2HQ4C10-RG	R (red) / G (green) 2-color alternate illumination
	3m	LH1D-D2HQ4C30-RG	
	5m	LH1D-D2HQ4C50-RG	

Dimensions

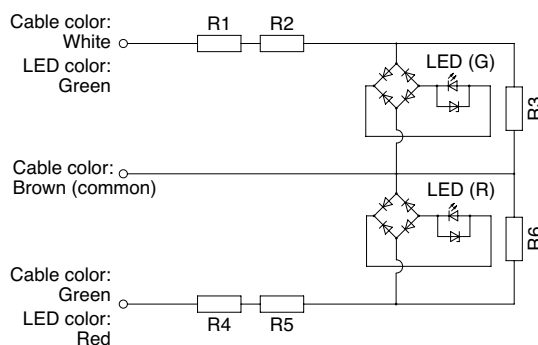


Internal Circuit

• One-color Illumination

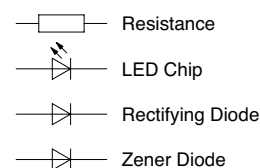


• Two-color Alternate Illumination



Lens Colors

Illumination Type	Illumination Color	Lens Color
One Color	Amber	Amber
	Blue	Blue
	Green	Green
	Cool White	Clear (Note)
	Red	Red
	Warm White	Clear (Note)
Two-color Alternate	Yellow	Yellow
	Red/Green	Clear (Note)

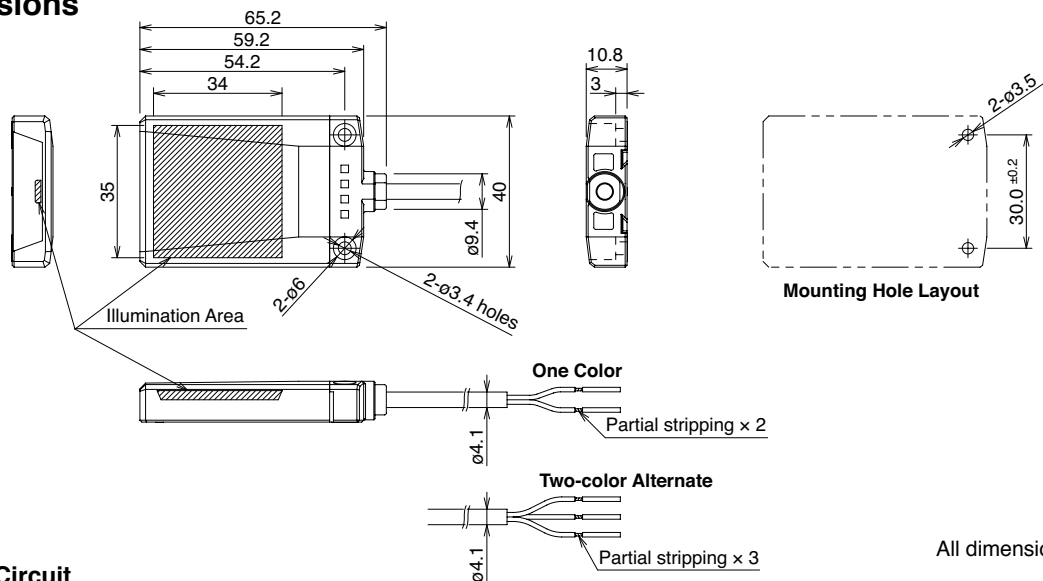


Note: Because lenses have a white diffusion cover inside, cool white, warm white, and red/green types look white when the light is off.

Flat Type

Shape	Cable	Part Number	② Illumination Color
Flat One Color Full 	1m	LH1D-H2HQ4C10-②	Specify a color code in place of ② in the Part No. A: amber G: green PW: cool white R: red S: blue W: warm white Y: yellow
	3m	LH1D-H2HQ4C30-②	
	5m	LH1D-H2HQ4C50-②	
Flat Red/Green 2-color Alternate 	1m	LH1D-H2HQ4C10-RG	R (red) / G (green) 2-color alternate illumination
	3m	LH1D-H2HQ4C30-RG	
	5m	LH1D-H2HQ4C50-RG	

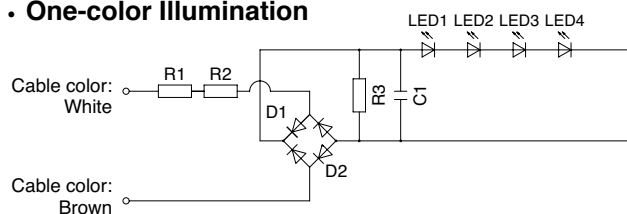
Dimensions



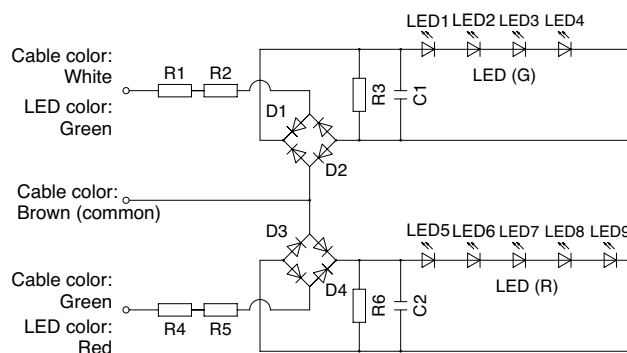
All dimensions in mm.

Internal Circuit

• One-color Illumination

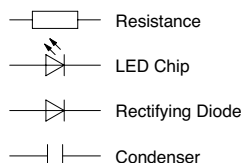


• Two-color Alternate Illumination



Lens Colors

Illumination Type	Illumination Color	Lens Color
One Color	Amber	Amber
	Blue	Blue
	Green	Green
	Cool White	Clear
	Red	Red
	Warm White	Clear
Two-color Alternate	Yellow	Yellow
	Red/Green	Clear



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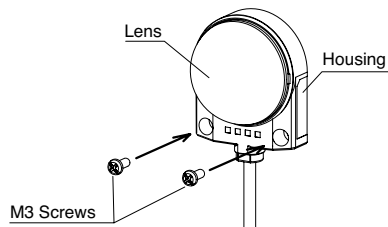
Replacement Parts

Shape	Material	Part Number	② Lens Color
Lens (flat type) 	Polyarylate	LH9Z-1DLH2-②	For flat type. Specify a color code in place of ② in the Part No. A: amber G: green C: clear R: red S: blue Y: yellow Note: Use C (clear) lens for R/G (red/green alternate), W (warm white), or PW (cool white) illumination.

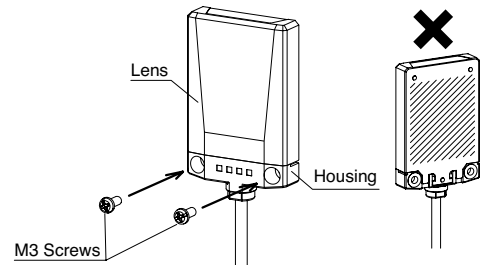
Instructions

Panel Mounting

Using two M3 screws, install the LH indicator to a mounting surface. Tighten the screws to a torque of 0.6 N·m maximum. Mounting screws are not provided and must be supplied by the user.



Note: The dome lens is not removable. Do not attempt to remove the lens, otherwise damage will occur.

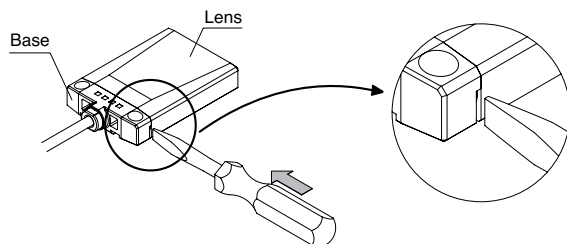


Note 1: Do not install the LH indicator by attaching the lens only, such as by taping down on the lens as the internal components may come loose.

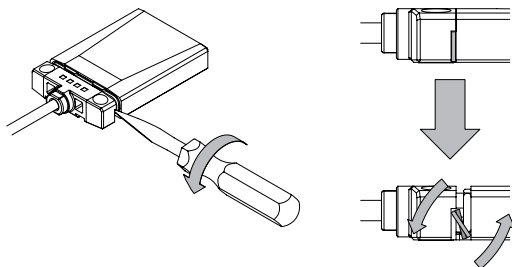
Note 2: Make sure that the back of the indicator is securely attached to the mounting surface so that the lens cannot be easily removed.

Inserting Marking Film into Flat Type Lens

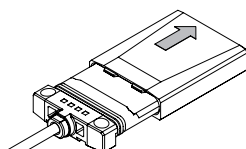
1. Insert a flat screwdriver into the groove between the base and lens.



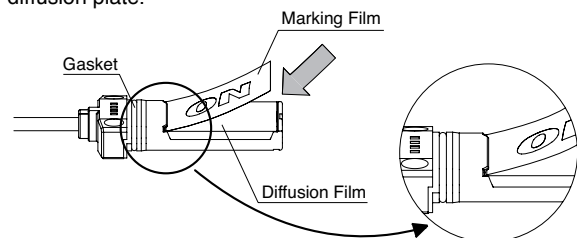
2. Twist the screwdriver and disengage the lens from the base.



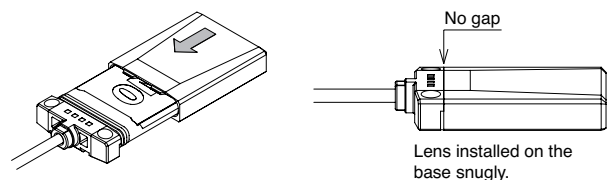
3. Remove the lens from the base.



4. Insert the edge of a marking film into the gap between the base and the diffusion plate, and place the marking film on top of the diffusion plate.



5. Replace the lens. Ensure that the lens is installed snugly.



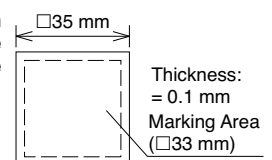
Note 1: Do not touch the gasket, as this may affect its waterproof characteristics.

Note 2: Do not touch the diffusion plate.

Markings

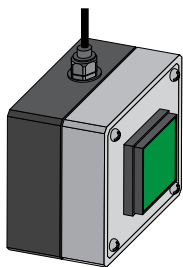
Legends and symbols can be printed on marking film that can be used with the flat lens. One 0.1mm-thick film can be inserted.

Marking films are not included and must be supplied by the user.
Recommended marking film: Polyester

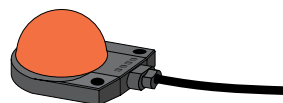
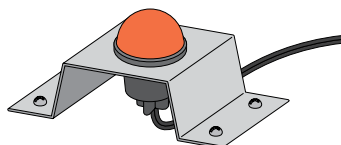
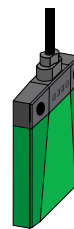


Applications

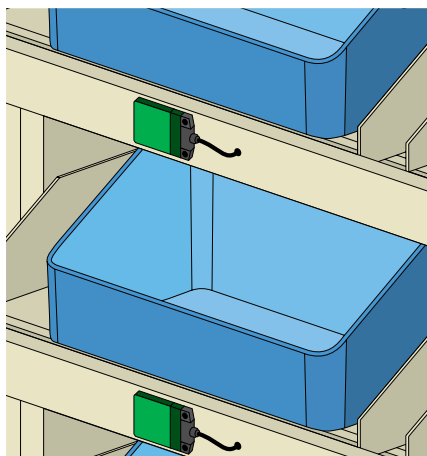
Conventional Indicators



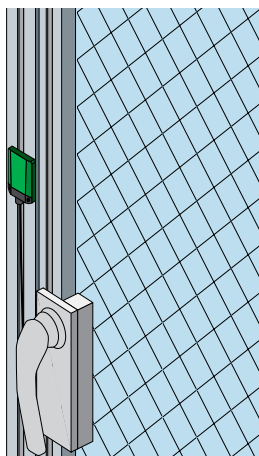
IDEC LED Spider



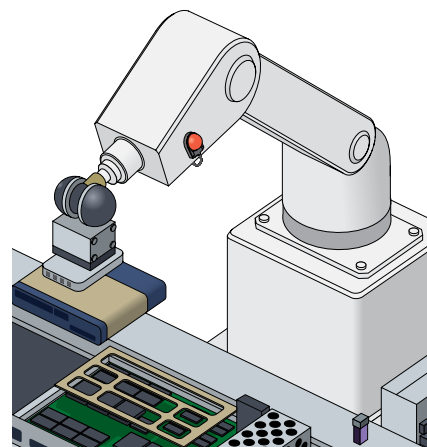
Picking Application



Door Monitoring



Robotic Arm



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