



LIGHTING
TECHNOLOGY & CONTROL

ULURU SERIES

IP67 LED Inground Lights



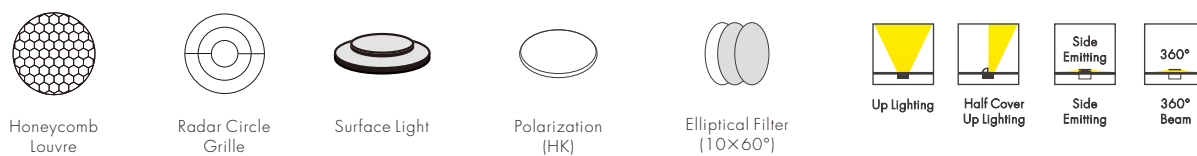
Various Types Front Cover for Options

For more options, please view on next page

ULURU Series



Optional Lighting Accessories:



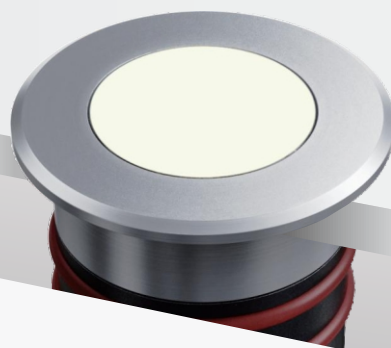
Versatile Lighting Accessories for Enhanced Visual Effects

Various front covers, light windows, and lighting accessories are available to meet different visual needs and enhance the visual effects of projects. These features make the inground luminaires suitable for non-glare lighting and floodlighting in both indoor and outdoor areas.

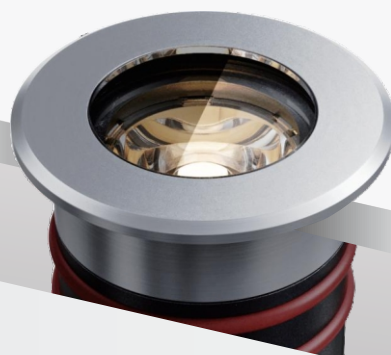
Optical Lens



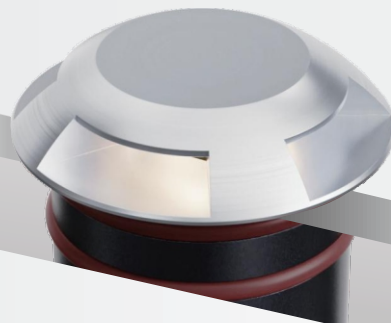
Diffuser: For Soft Beam Surface Light Output
(Print White/Milky White Temper Glass)



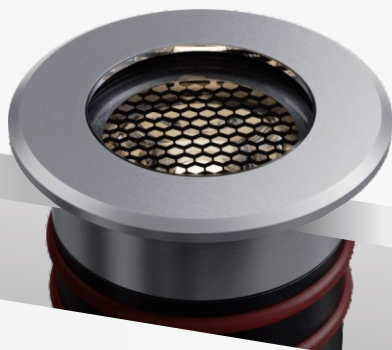
Optical Lens+Silk Print



Walk Over Light Sectors Front Cover:
For Side Emitting Light Output



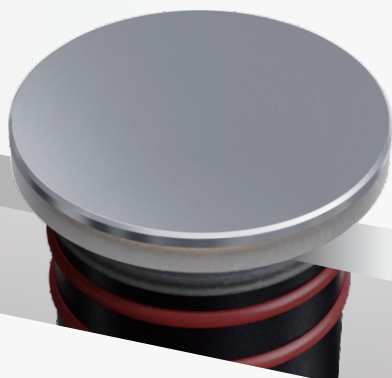
Optical Lens+Honeycomb Louvre



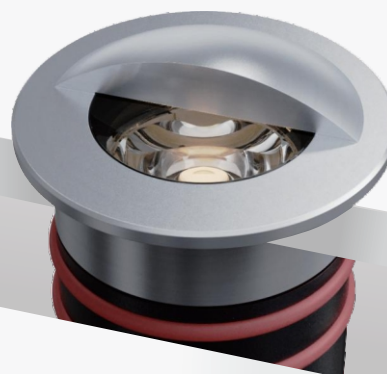
Optical Lens+(Radar circle) Grille



Walk Over Protective Cover:
360° Side Emitting Light Output



Half Cover



Trimless+Frosted Tempered Glass:
For Soft Light Output



Trimless + Silk Print Frosted Tempered Glass







ULURU Series

LED Inground Uplight

LUMINAIRE:

- Versatile lighting accessories for options for enhanced visual effects to meet different applications requirements.
- Titanium chrome white SUS 316L stainless steel front cover
- 12# Die-cast aluminum housing with Tiger or Akzo powder coated
- ABS Mounting sleeve (recessed box) included
- Shock resistant tempered glass cover for protection
- Can be walked over and driven over at maximum speed 20 km/h
- Electrically neutral thermal path to ensure performance
- Protection Rating IP67 for outdoor applications
- Complies with standards EN60598 and pertinent regulations

OPTICAL SYSTEM:

- Optional optical lens, diffuser, frosted glass, silk print glass and etc.
- Symmetrical, asymmetrical, soft light, side emitting light distribution
- Ultra spot, spot, narrow, medium, flood, wide flood and elliptic optics
- Anti-glare grille, honeycomb louvre, diffuser for improved visual comfort
- Half covered or sectors front cover for special lighting output

LIGHT COLOUR MANAGEMENT:

- High uniformity and consistency for facade lighting or up lighting
- Regular 2700~6500K, very warm white 2200K available for 2W

INSTALLATION:

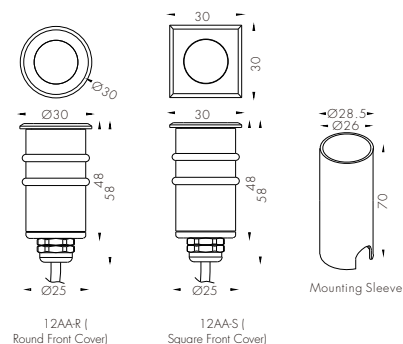
- For outdoor installation with ground recessed box
- Installation accessories for options: O-ring and Spring
- Suitable for both indoor and outdoor applications



Model No.: 12AA | 2W | Mini Recessed LED Inground Uplight



Units:mm



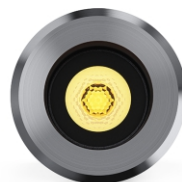
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AA-R-101 12AA-S-101	ON/OFF, PWM	Single	1x2W 3030 CREE or OSRAM LED	5°,10°, 15°, 20°, 30°,40°, 60° 10x45°,25x45°	12/24VDC	2	Cool White=130 Warm White=110	06

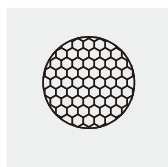
Note: RGB, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chromed White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=5mm.
Glass Pressure Capacity:	Full Area=2510KGs
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (12/24VDC, Single color)
Mounting Part:	Silicone O-Ring
Mounting Sleeve(included):	ABS (For recessed Mount)



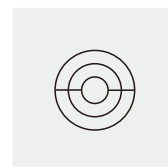
Optional Accessories



Honeycomb Louve 12AA-A1
For models with optics>30°. Built-in anti-glare accessory for improved visual comfort



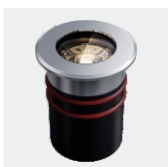
Elliptical Filter 12AA-A2
10x60° elliptical filter For elliptical light output



Radar Circle Grille 12AA-A3
Made of PC Completed with inground light Can not order separately.



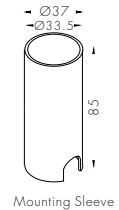
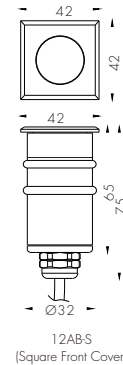
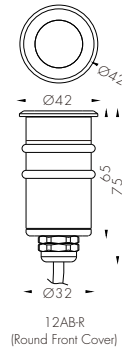
Diffuser 12AA-A4
White print/milky white tempered glass.
For soft beam output (surface light) and improved visual comfort



Half Print glass 12AA-A5
Half silk print temper glass front cover

Model No.: 12AB | 3.5W | Small Size Recessed LED Inground Uplight

Units:mm

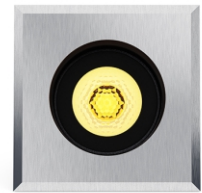
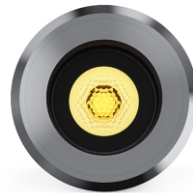
**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
2AB-R-101 12AB-S-101	ON/OFF, PWM	Single	1pcs×4W CREE or OSRAM LED	15°, 24°, 36°, 55°	12/24VDC, 110/120VAC, 220/240VAC	24VDC=3.2 120V=3.5 240V=3.5	Cool White=282 Warm White=238	08

Note: RGB, RGBW color are available upon request.

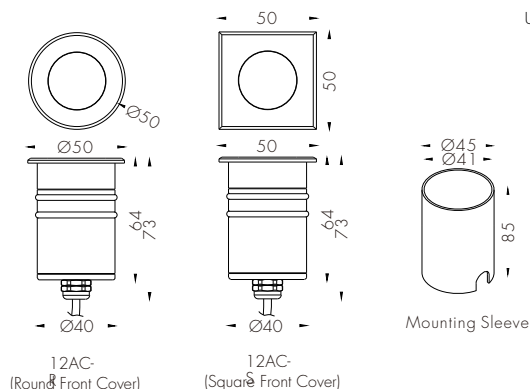
Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chromed White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=7mm.
Glass Pressure Capacity:	Full Area≥1700KGs
Lens:	Optical Lens, Efficiency≥95%
LED:	Type: COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC 12/24V, or 110/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (12/24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (High voltage 120/240VAC)
Mounting Part (Optional):	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)

**Optional Accessories**

	Honeycomb Louve 2AB-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort		Elliptical Filter 12AB-A2 10×60° elliptical filter For elliptical light output		Radar CircleGrille 12AB-A3 Made of PC Completed with inground light Can not order separately.
	Diffuser 12AB-A4 White print/milky white tempered glass. For soft beam output (surface light) and improved visual comfort		Half Print glass 12AB-A5 Half silk print temper glass front cover		Spring 12AB-A6 Made of 316 Stainless Steel Completed with inground light, Can not order separately.

Model No.: 12AC | 5W | Small Size Recessed LED Inground Uplight



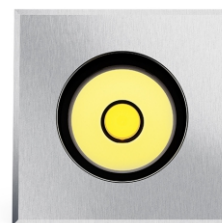
Units:mm

Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AC-R-101 12AC-S-101	ON/OFF, PWM	2700~6500K	1x5W CREE COB LED	12°, 24°, 36°, 55°	12/24VDC, 110/120VAC, 220/240VAC	4.5	Cool White=382 Warm White=325	08

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chromed White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=7mm.
Glass Pressure Capacity:	Full Area≥1701KGs
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC)
Mounting Part:	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)



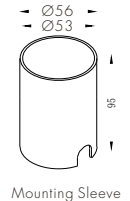
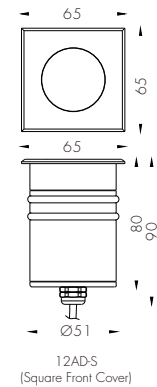
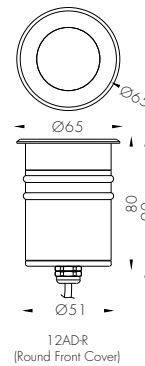
Optional Accessories

	Honeycomb Louve 12AC-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort		Elliptical Filter 12AC-A2 10×60° elliptical filter For elliptical light output		Radar Circle Grille 12AC-A3 Made of PC Completed with inground light Can not order separately.
	Diffuser 12AC-A4 White print/milky white tempered glass. For soft beam output (surface light) and improved visual comfort		Half Print glass 12AC-A5 Half silk print temper glass front cover		Spring 12AC-A6 Made of 316 Stainless Steel Completed with inground light, Can not order separately.

Model No.: 12AD | 6.5W | Small Size Recessed LED Inground Uplight



Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AD-R-101 12AD-S-101	ON/OFF, PWM	Single	1x8W CREE COB LED	12°, 24°, 36°, 55°	24VDC, 110/120VAC, 220/240VAC	6.5	Cool White=519 Warm White=442	08

Note: RGB, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chromed White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=7mm.
Glass Pressure Capacity:	Full Area≥1790KGs
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC)
Mounting Part:	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)



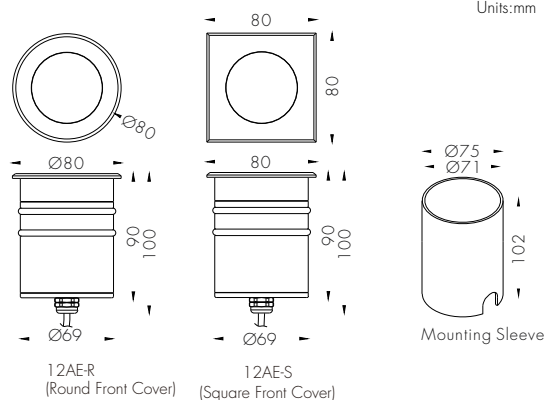
Optional Accessories

Honeycomb Louvre 12AD-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort	Elliptical Filter 12AD-A2 10×60° elliptical filter For elliptical light output	Radar CircleGrille 12AD-A3 Made of PC Completed with inground light Can not order separately.
Diffuser 12AD-A4 White print/milky white tempered glass. For soft beam output (surface light) and improved visual comfort	Half Print glass 12AD-A5 Half silk print temper glass front cover	Spring 12AD-A6 Made of 316 Stainless Steel Completed with inground light, Can not order separately.

Model No.: 12AE | 10W | Recessed LED Inground Uplight



Units:mm



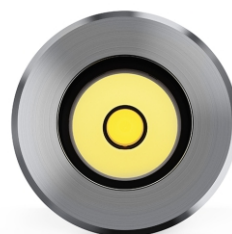
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AE-R-101 12AE-S-101	ON/OFF, PWM	2700~6500K	1x10W CREE COB LED	12°, 24°, 36°, 55°	12/24VDC, 110/120VAC, 220/240VAC	10	Cool White=850 Warm White=722	08

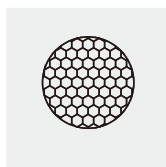
Note: RGB, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chromed White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=7mm.
Glass Pressure Capacity:	Full Area ≥ 1850KGs
Lens:	Optical Lens, Efficiency ≥ 95%
LED:	Type: COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C ~ +40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC)
Mounting Part:	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)



Optional Accessories



Honeycomb Louvre 12AE-A1

For models with optics > 30°. Built-in anti-glare accessory for improved visual comfort



Elliptical Filter 12AE-A2

10x60° elliptical filter
For elliptical light output

Radar Circle Grille 12AE-A3

Made of PC
Completed with inground light
Can not order separately.

Diffuser 12AE-A4

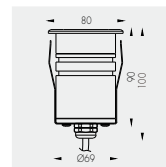
White print/milky white tempered glass.

For soft beam output (surface light) and improved visual comfort



Half Print glass 12AE-A5

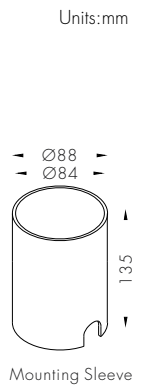
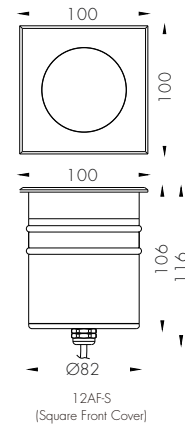
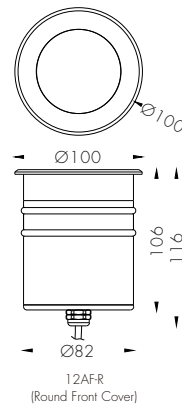
Half silk print temper glass front cover



Spring 12AE-A6

Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.

Model No.: 12AF | 15W | Recessed LED Inground Uplight



Units:mm

Technical Specifications

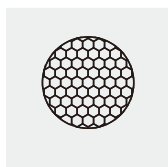
Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AF-R-101 12AF-S-101	ON/OFF, PWM	Single	1x15W CREE COB LED	12°, 24°, 36°, 55°	24VDC, 110/120VAC, 220/240VAC	15.5	Cool White=1318 Warm White=1120	08

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chromed White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area≥1895KGs
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC)
Mounting Part:	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)



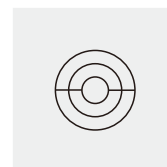
Optional Accessories



Honeycomb Louvre 12AF-A1
For models with optics>30°. Built-in anti-glare accessory for improved visual comfort



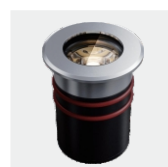
Elliptical Filter 12AF-A2
10×60° elliptical filter For elliptical light output



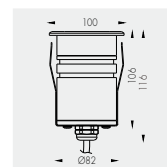
Radar Circle Grille 12AF-A3
Made of PC Completed with inground light Can not order separately.



Diffuser 12AF-A4
White print/milky white tempered glass.
For soft beam output (surface light) and improved visual comfort



Half Print glass 12AF-A5
Half silk print temper glass front cover

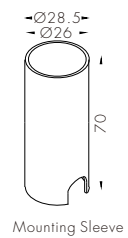
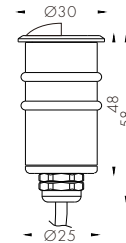


Spring 12AF-A6
Made of 316 Stainless Steel Completed with inground light, Can not order separately.

Model No.: 12AA-H | 2W | Half Covered Mini Recessed LED Inground Light



Units:mm



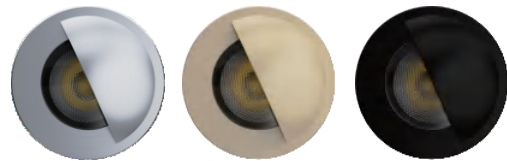
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AA-H-101	ON/OFF, PWM	Single	1x2W 3030 CREE or OSRAM LED	5°,10°, 15°, 20°, 30°,40°, 60° 10x45°,25x45°	12/24VDC	2	Cool White=68 Warm White=57	06

Note: RGB, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chromed White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=5mm.
Glass Pressure Capacity:	Full Area=2510KGs
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (12/24VDC, Single color)
Mounting Part:	Silicone O-Ring
Mounting Sleeve(included):	ABS (For recessed Mount)



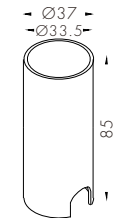
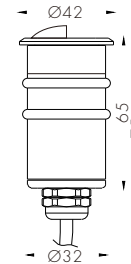
Different Finished Color for Front Cover

Optional Accessories

Honeycomb Louvre 12AA-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort	Elliptical Filter 12AA-A2 10x60° elliptical filter For elliptical light output	Radar Circle Grille 12AA-A3 Made of PC Completed with inground light Can not order separately.
Diffuser 12AA-A4 White print/milky white tempered glass. For soft beam output & improved visual comfort	Inground recessed Half cover upward lighting For anti-glare up lighting	Wall recessed Half cover downward lighting For wall lighting, or step lighting

Model No.: 12AB-H | 3.5W | Half Covered Recessed LED Inground Light

Units:mm



Mounting Sleeve

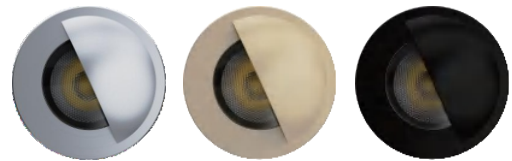
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AB-H-101	ON/OFF, PWM	Single	1pcs×4W CREE or OSRAM LED	15°, 24°, 36°, 55°	12/24VDC, 110/120VAC, 220/240VAC	24VDC=3.2 120V=3.5 240V=3.5	Cool White=140 Warm White=115	06

Note: RGB, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chromed White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=7mm.
Glass Pressure Capacity:	Full Area≥1700KGs
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC 12/24V, or 110/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (12/24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (High voltage 120/240VAC)
Mounting Part (Optional):	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)



Different Finished Color for Front Cover

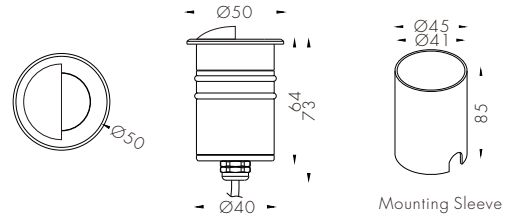
Optional Accessories

	Honeycomb Louvre 12AB-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort		Elliptical Filter 12AB-A2 10×60° elliptical filter For elliptical light output		12AB-A3 Radar Circle Grille Made of PC Completed with inground light Can not order separately.
	Diffuser 12AB-A4 White print/milky white tempered glass. For soft beam output & improved visual comfort		Spring 12AB-A6 Made of 316 Stainless Steel Completed with inground light, Can not order separately.		Silicone O-ring 12AB-A8 Completed with inground light. Cannot order separately.

Model No.: 12AC-H | 5W | Half Covered Recessed LED Inground Light



Units:mm



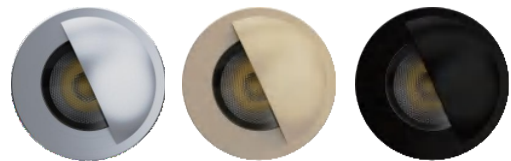
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AC-H-101	ON/OFF, PWM	2700~6500K	1x5W CREE COB LED	12°, 24°, 36°, 55°	12/24VDC, 110/120VAC, 220/240VAC	4.5	Cool White=186 Warm White=98	08

Note: RGB, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chromed White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass, T=7mm.
Glass Pressure Capacity:	Full Area≥1701KGs
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC)
Mounting Part:	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)



Different Finished Color for Front Cover

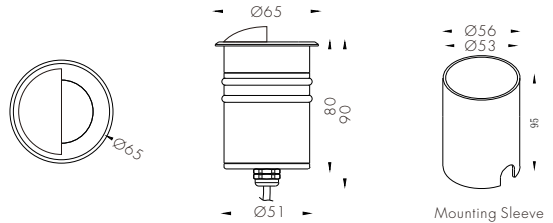
Optional Accessories

Honeycomb Louvre 12AC-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort	Elliptical Filter 12AC-A2 10×60° elliptical filter For elliptical light output	Radar Circle Grille 12AC-A3 Made of PC Completed with inground light Can not order separately.
Diffuser 12AC-A4 White print/milky white tempered glass. For soft beam output & improved visual comfort	Spring 12AC-A6 Made of 316 Stainless Steel Completed with inground light, Can not order separately.	Silicone O-ring 12AC-A8 Completed with inground light. Cannot order separately.

Model No.: 12AD-H | 6.5W | Half Covered Small Size Recessed LED Inground Light



Units:mm



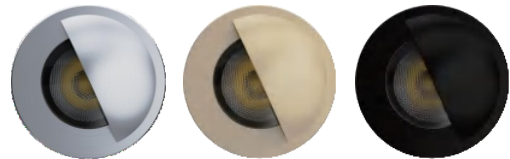
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AD-H-101	ON/OFF, PWM	Single	1x8W CREE COB LED	12°, 24°, 36°, 55°	24VDC, 110/120VAC, 220/240VAC	6.5	Cool White=260 Warm White=221	08

Note: RGB, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chrome White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=7mm.
Glass Pressure Capacity:	Full Area≥1790KGs
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC)
Mounting Part:	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)



Different Finished Color for Front Cover

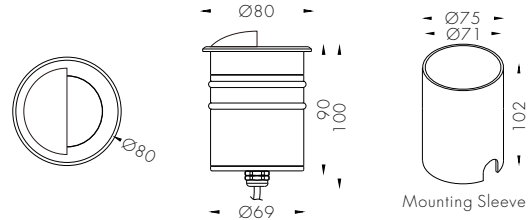
Optional Accessories

Honeycomb Louvre 12AD-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort	Elliptical Filter 12AD-A2 10×60° elliptical filter For elliptical light output	Radar Circle Grille 12AD-A3 Made of PC Completed with inground light Can not order separately.
Diffuser 12AD-A4 White print/milky white tempered glass. For soft beam output & improved visual comfort	Spring 12AD-A6 Made of 316 Stainless Steel Completed with inground light, Can not order separately.	Silicone O-ring 12AD-A8 Completed with inground light. Cannot order separately.

Model No.: 12AE-H | 10W | Half Covered Recessed LED Inground Light



Units:mm



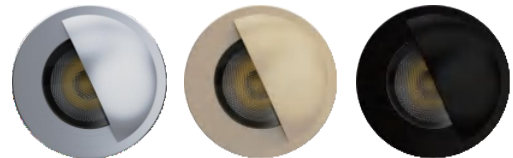
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AE-H-101	ON/OFF, PWM	2700~6500K	1x10W CREE COB LED	12°, 24°, 36°, 55°	12/24VDC, 110/120VAC, 220/240VAC	10	Cool White=850 Warm White=722	08

Note: RGB, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chromed White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=7mm.
Glass Pressure Capacity:	Full Area≥1850KGs
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (24VDC) H05RN-F 3x0.75mm², L=0.5m (120/240VAC)
Mounting Part:	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)



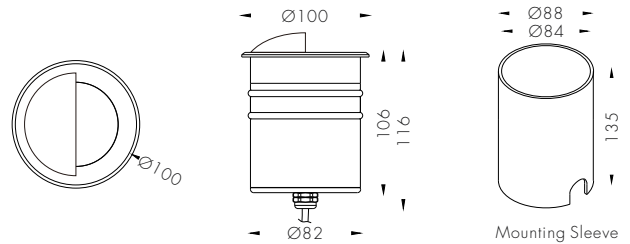
Different Finished Color for Front Cover

Optional Accessories

	Honeycomb Louvre 12AE-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort		Elliptical Filter 12AE-A2 10x60° elliptical filter For elliptical light output		Radar CircleGrille 12AE-A3 Made of PC Completed with inground light Can not order separately.
	Diffuser 12AE-A4 White print/milky white tempered glass. For soft beam output & improved visual comfort		Spring 12AE-A6 Made of 316 Stainless Steel Completed with inground light, Can not order separately.		Silicone O-ring 12AE-A8 Completed with inground light. Cannot order separately.

Model No.: 12AF-H | 15W | Half Covered Recessed LED Inground Light

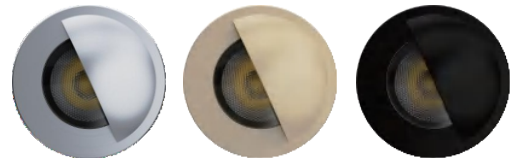
Units:mm

**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AF-H-101	ON/OFF, PWM	Single	1×15W CREE COB LED	12°, 24°, 36°, 55°	24VDC, 110/120VAC, 220/240VAC	15.5	Cool White=655 Warm White=561	08

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover:	Titanium Chromed White SUS 316L# Stainless Steel
Light Window:	Step Tempered Glass. T=8mm.
Glass Pressure Capacity:	Full Area≥1895KGs
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC24V, or AC110/240V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (24VDC) H05RN-F 3×0.75mm², L=0.5m (120/240VAC)
Mounting Part:	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)



Different Finished Color for Front Cover

Optional Accessories

	Honeycomb Louvre 12AF-A1 For models with optics>30°. Built-in anti-glare accessory for improved visual comfort		Elliptical Filter 12AF-A2 10×60° elliptical filter For elliptical light output		Radar CircleGrille 12AF-A3 Made of PC Completed with inground light Can not order separately.
	Diffuser 12AF-A4 White print/milky white tempered glass. For soft beam output & improved visual comfort		Spring 12AF-A6 Made of 316 Stainless Steel Completed with inground light, Can not order separately.		Silicone O-ring 12AF-A8 Completed with inground light. Cannot order separately.

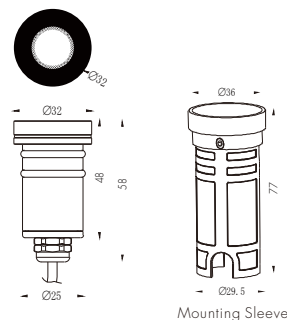
Model No.: 12AA-T | 2W | Trimless Recessed LED Inground Light



Units:mm

**Feature:**

Trimless Silk Print Frosted Tempered Glass for Soft Light Output

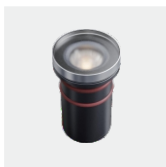
**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ 1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AA-T-101	ON/OFF, PWM	Single	1x2W 3030 CREE or OSRAM LED	5°, 10°, 15°, 20°, 30°, 40°, 60° 10x45°, 25x45°	12/24VDC	2	Cool White=70 Warm White=61	06

Note: RGB, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cover/Light Window:	Trimless Silk Print Frosted Tempered Glass
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or 110/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (12/24VDC, Single color) H05RN-F 3x0.75mm², L=0.5m (High voltage 120/240VAC)
Mounting Part (Optional):	Silicone O-Ring
Mounting Sleeve(included):	ABS (For recessed Mount)

Optional Accessories

Trimless Frosted Glass 12AA-A7

Trimless frosted tempered glass

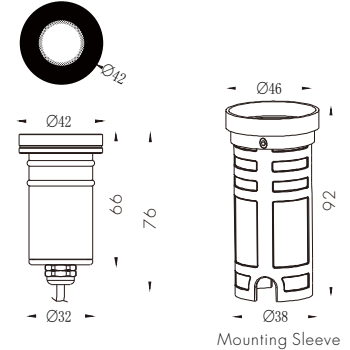
Model No.: 12AB-T | 3.5W | Trimless Recessed LED Inground Light



Units:mm

**Feature:**

Trimless Silk Print Frosted Tempered Glass for Soft Light Output

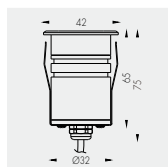
**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)		Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AB-T-101	ON/OFF, PWM	Single	1 pcs×4W CREE or OSRAM LED	15°, 24°, 36°, 55°	12/24VDC, 110/120VAC, 220/240VAC	24VDC=3.2 120V=3.5 240V=3.5	Cool White=282 Warm White=238	08

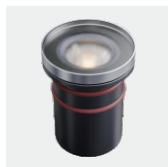
Note: RGB, RGBW color are available upon request.

Material Specifications

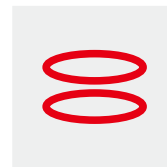
Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cove/ Light Window	Trimless Silk Print Frosted Tempered Glass
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:SMD LED, or COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC 12/24V, or 110/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (12/24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (High voltage 120/240VAC)
Mounting Part (Optional):	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)

Optional Accessories

Spring 12AB-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.



Trimless Frosted Glass 12AB-A7
Trimless frosted tempered glass



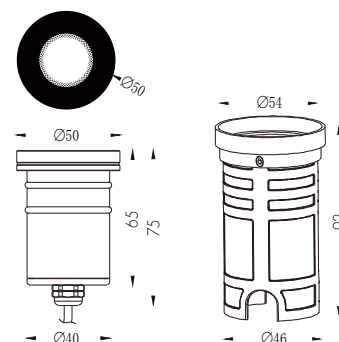
Silicone O-ring 12AB-A8
Completed with inground light.
Cannot order separately.

Model No.: 12AC-T | 5W | Trimless Recessed LED Inground Light



Units:mm

Feature:
Trimless Silk Print Frosted Tempered Glass for Soft Light Output



Mounting Sleeve

Technical Specifications

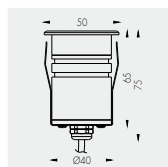
Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AC-T-101	ON/OFF, PWM	Single	1 pcsx5W CREE or OSRAM LED	12°, 24°, 36°, 55°	12/24VDC, 110/120VAC, 220/240VAC	4.5	Cool White=175 Warm White=146	08

Note: RGB, RGBW color are available upon request.

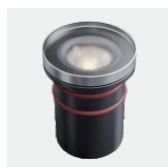
Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cove/ Light Window	Trimless Silk Print Frosted Tempered Glass
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or 110/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (12/24VDC, Single color) H05RN-F 3x0.75mm², L=0.5m (High voltage 120/240VAC)
Mounting Part (Optional):	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)

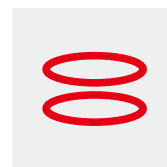
Optional Accessories



Spring 12AC-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.



Trimless Frosted Glass 12AC-A7
Trimless frosted tempered glass



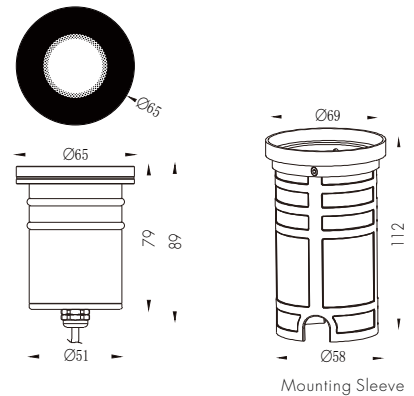
Silicone O-ring 12AC-A8
Completed with inground light.
Cannot order separately.

Model No.: 12AD-T | 6.5W | Trimless Recessed LED Inground Light

Units:mm



Feature:
Trimless Silk Print Frosted Tempered Glass for Soft Light Output

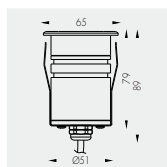
**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Ø1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AD-T-101	ON/OFF, PWM	Single	1pcs×8W CREE or OSRAM LED	12°, 24°, 36°, 55°	12/24VDC, 110/120VAC, 220/240VAC	6.5	Cool White=298 Warm White=252	08

Note: RGB, RGBW color are available upon request.

Material Specifications

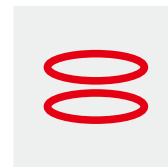
Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Cove/ Light Window	Trimless Silk Print Frosted Tempered Glass
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or 110/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (12/24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (High voltage 120/240VAC)
Mounting Part (Optional):	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)

Optional Accessories

Spring 12AD-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.



Trimless Frosted Glass 12AD-A7
Trimless frosted tempered glass



Silicone O-ring 12AD-A8
Completed with inground light.
Cannot order separately.

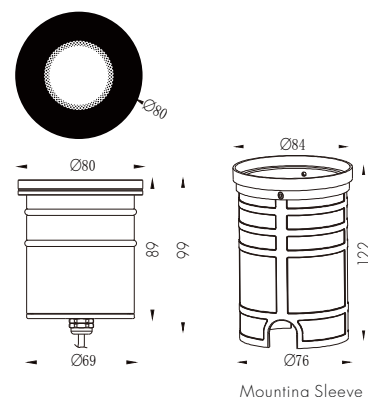
Model No.: 12AE-T | 10W | Trimless Recessed LED Inground Light



Units:mm

**Feature:**

Trimless Silk Print Frosted Tempered Glass for Soft Light Output

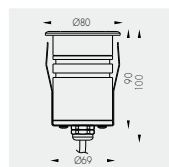
**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ 1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AE-T-101	ON/OFF, PWM	Single	1pcs×10W CREE or OSRAM LED	12°, 24°, 36°, 55°	12/24VDC, 110/120VAC, 220/240VAC	10	Cool White=467 Warm White=395	08

Note: RGB, RGBW color are available upon request.

Material Specifications

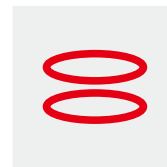
Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cove/ Light Window	Trimless Silk Print Frosted Tempered Glass
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or 110/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (12/24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (High voltage 120/240VAC)
Mounting Part (Optional):	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)

Optional Accessories

Spring 12AE-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.



Trimless Frosted Glass 12AE-A7
Trimless frosted tempered glass



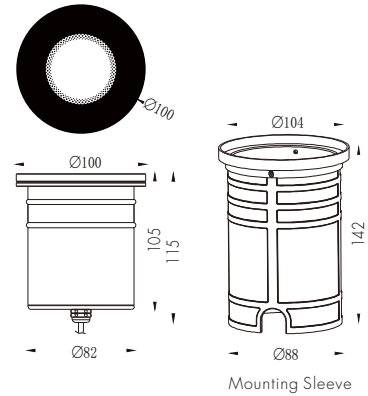
Silicone O-ring 12AE-A8
Completed with inground light.
Cannot order separately.

Model No.: 12AF-T | 15W | Trimless Recessed LED Inground Light

Units:mm



Feature:
Trimless Silk Print Frosted Tempered Glass for Soft Light Output

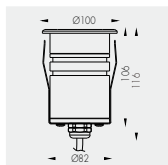
**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ 1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AF-T-101	ON/OFF, PWM	Single	1pcs×15W CREE or OSRAM LED	12°, 24°, 36°, 55°	12/24VDC, 110/120VAC, 220/240VAC	15	Cool White=578 Warm White=490	08

Note: RGB, RGBW color are available upon request.

Material Specifications

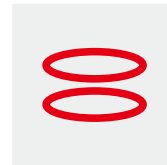
Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Cove/ Light Window	Trimless Silk Print Frosted Tempered Glass
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Gasket:	Molding Shaped Silicone Seal
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V, or 110/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (12/24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (High voltage 120/240VAC)
Mounting Part (Optional):	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)

Optional Accessories

Spring 12AF-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.



Trimless Frosted Glass 12AF-A7
Trimless frosted tempered glass



Silicone O-ring 12AF-A8
Completed with inground light.
Cannot order separately.







ULURU Series

360° Side Emitting Inground Light

Features:

- 360° side emitting soft beam output
- SUS316 stainless steel round top protective front cover
- Thick round temper glass as light window
- Inground recessed or wall recessed mounting
- 2~15W wattage for options
- IP67 and IK10 for outdoor applications
- Walk over is allowable



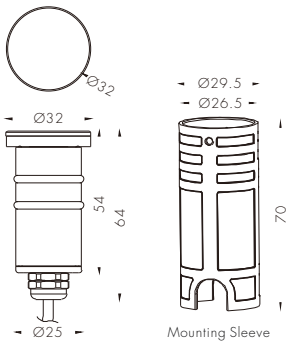
Model No.: 12AA-C | 2W | Walk-Over 360° Side Emitting LED Inground Light

CE

RoHS

IP67

IK10



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AA-C-101	ON/OFF, PWM	Single	1×2W 3030 CREE or OSRAM LED	360°	12/24VDC	2	-	10

Note: RGB, RGBW color are available upon request.

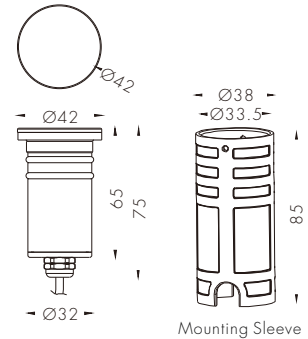
Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Top Protective Cover:	Titanium Chromed SUS 316 Stainless Steel
Light Window:	Trimless Tempered Glass
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (12/24VDC, Single color)
Mounting Part (Optional):	Silicone O-Ring
Mounting Sleeve(included):	ABS (For recessed Mount)



Model No.: 12AB-C | 3.5W | Walk-Over 360° Side Emitting LED Inground Light

Units:mm

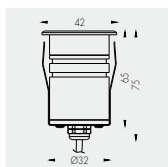
**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AB-C-101	ON/OFF, PWM	Single	1pcs×4W CREE or OSRAM LED	15°, 24°, 36°, 55°	12/24VDC, 110/120VAC, 220/240VAC	24VDC=3.2 120V=3.5 240V=3.5	Cool White=282 Warm White=238	08

Note: RGB, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Top Protective Cover:	Titanium Chromed SUS 316 Stainless Steel
Light Window:	Trimless Tempered Glass
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:SMD LED or COB LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (12/24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (120/240VAC)
Mounting Part (Optional):	Silicone O-Ring (Optional Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)

Optional Accessories

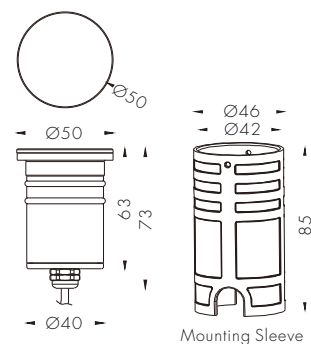
Spring 12AB-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.



Silicone O-ring 12AB-A8
Completed with inground light.
Cannot order separately.

Model No.: 12AC-C | 4.5W | Walk-Over 360° Side Emitting LED Inground Light

Units:mm

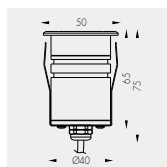
**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AC-C-101	ON/OFF, PWM	Single	1pcs×6W CREE or OSRAM LED	360°	12/24VDC, 110/120VAC, 220/240VAC	4.5	-	10

Note: RGB, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Top Protective Cover:	Titanium Chromed SUS 316 Stainless Steel
Light Window:	Trimless Tempered Glass
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:SMD LED or COB LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (12/24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (120/240VAC)
Mounting Part (Optional):	Silicone O-Ring (Optional Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)

Optional Accessories

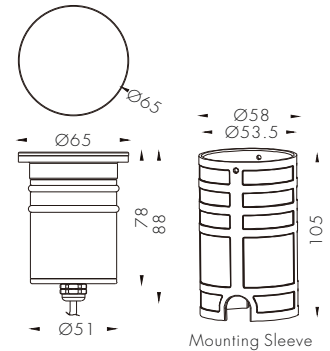
Spring 12AC-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.



Silicone O-ring 12AC-A8
Completed with inground light.
Cannot order separately.

Model No.: 12AD-C | 6.5W | Walk-Over 360° Side Emitting LED Inground Light

Units:mm

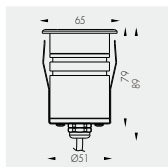
**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AD-C-101	ON/OFF, PWM	Single	1pcs×8W CREE COB LED	360°	12/24VDC, 110/120VAC, 220/240VAC	6.5	-	10

Note: RGB, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
Front Top Protective Cover:	Titanium Chromed SUS 316 Stainless Steel
Light Window:	Trimless Tempered Glass
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:SMD LED or COB LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (12/24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (120/240VAC)
Mounting Part (Optional):	Silicone O-Ring (Optional Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)

Optional Accessories

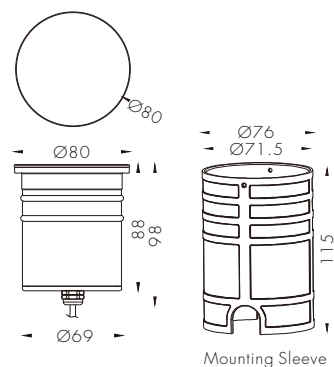
Spring 12AD-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.



Silicone O-ring 12AD-A8
Completed with inground light.
Cannot order separately.

Model No.: 12AE-C | 10W | Walk-Over 360° Side Emitting LED Inground Light

Units:mm

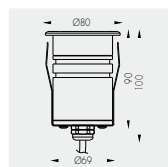
**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AE-C-101	ON/OFF, PWM	Single	1pcs×10W CREE COB LED	360°	12/24VDC, 110/120VAC, 220/240VAC	10	-	10

Note: RGB, RGBW color are available upon request.

Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Top Protective Cover:	Titanium Chromed SUS 316 Stainless Steel
Light Window:	Trimless Tempered Glass
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:SMD LED or COB LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (12/24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (120/240VAC)
Mounting Part (Optional):	Silicone O-Ring (Optional Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)

Optional Accessories

Spring 12AE-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.

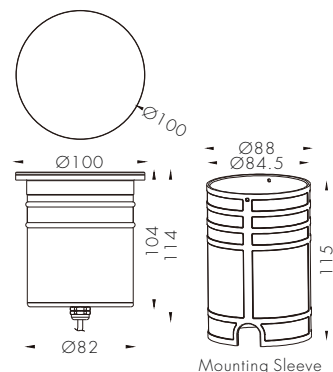


Silicone O-ring 12AE-A8
Completed with inground light.
Cannot order separately.

Model No.: 12AF-C | 15W | Walk-Over 360° Side Emitting LED Inground Light



Units:mm



Technical Specifications

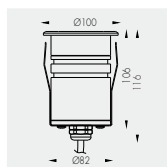
Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AF-C-101	ON/OFF, PWM	Single	1pcs×15W CREE COB LED	360°	12/24VDC, 110/120VAC, 220/240VAC	15	-	10

Note: RGB, RGBW color are available upon request.

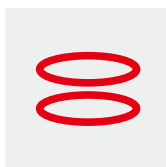
Material Specifications

Housing:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
Front Top Protective Cover:	Titanium Chromed SUS 316 Stainless Steel
Light Window:	Trimless Tempered Glass
Lens:	Optical Lens, Efficiency≥95%
LED:	Type:SMD LED or COB LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (12/24VDC, Single color) H05RN-F 3×0.75mm², L=0.5m (120/240VAC)
Mounting Part (Optional):	Silicone O-Ring (Optional Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)

Optional Accessories



Spring 12AF-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.



Silicone O-ring 12AF-A8
Completed with inground light.
Cannot order separately.



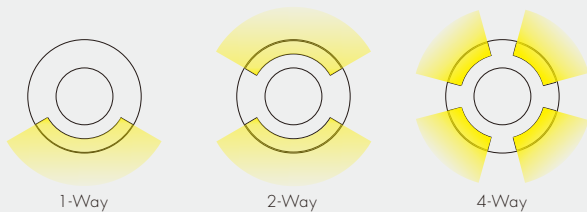


ULURU Series

1/2/4-Way Side Emitting Inground Light

FEATURES

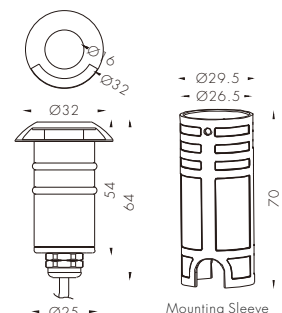
- 3 different light sectors front cover for options with 1-Way, 2-Way, 4-Way side emitting light output
- Inground recessed or wall recessed mounting
- 2~15W wattage for options
- IP67 and IK10 for outdoor applications
- Walk-over designed



Model No.: 12AA-W | 2W | Walk-Over Side Emitting LED Inground Light



Units:mm



Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ 1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (lm)	IK Rate
12AA-W1-101	ON/OFF, PWM	Single	1×2W 3030 CREE or OSRAM LED	1-Way 120°	12/24VDC	2	-	10
12AA-W2-101	ON/OFF, PWM	Single	1×2W 3030 CREE or OSRAM LED	2-Way 2×120°	12/24VDC	2	-	10
12AA-W4-101	ON/OFF, PWM	Single	1×2W 3030 CREE or OSRAM LED	4-Way 4×60°	12/24VDC	2	-	10

Note: Very warm white 2200K, RGB, RGBW color are available upon request.

Material Specifications

Housing and Front Cover:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
LED:	Type:SMD LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (12/24VDC, Single color)
Mounting Part (Optional):	Silicone O-Ring
Mounting Sleeve(included):	ABS (For recessed Mount)



CL21016-101-1
1-Way

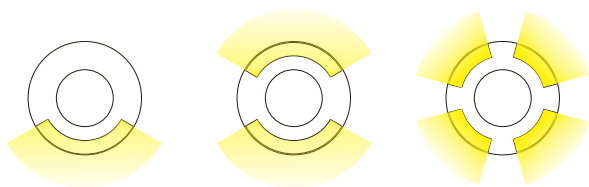


CL21016-101-2
2-Way



CL21016-101-4
4-Way

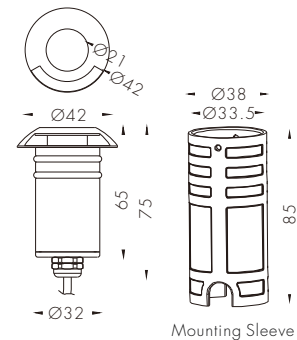
3 Different front cover for options



Model No.: 12AB-W | 3.5W | Walk-Over Side Emitting LED Inground Light



Units:mm



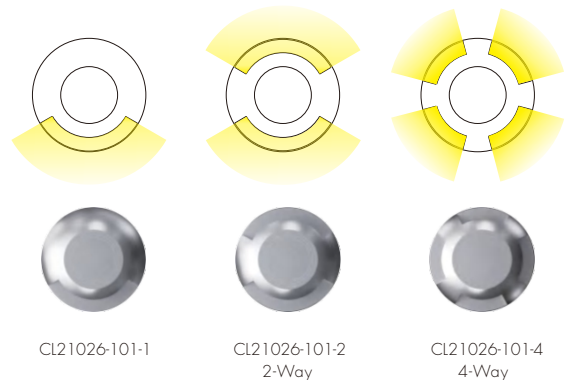
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AB-E1-101	ON/OFF, PWM	2700~6500K	1x4W 1034 CREE COB LED	1-Way 120°	12/24VDC	3.5	-	10
12AB-E2-101	ON/OFF, PWM	2700~6500K	1x4W 1034 CREE COB LED	2-Way 2x120°	12/24VDC	3.5	-	10
12AB-E4-101	ON/OFF, PWM	2700~6500K	1x4W 1034 CREE COB LED	4-Way 4x60°	12/24VDC	3.5	-	10

Note: RGB, RGBW color are available upon request.

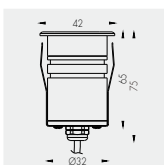
Material Specifications

Housing and Front Cover:	12# Die-Casting Black Powder Coated Aluminum, T=60-80µm Adhesion of ISO Class 1/ASTM class 4B
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC 12/24V or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (High Voltage 120/240V)
Mounting Part (Optional):	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional PWM, DALI, 0/1-10V, DMX512, TRIAC



1-Way

Optional Accessories



Spring 2AB-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.

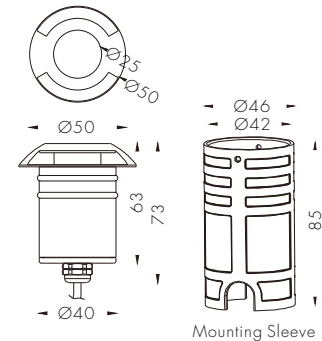


Silicone O-ring 12AB- A8
Completed with inground light.
Cannot order separately.

Model No.: 12AC-W | 4.5W | Walk-Over Side Emitting LED Inground Light



Units:mm



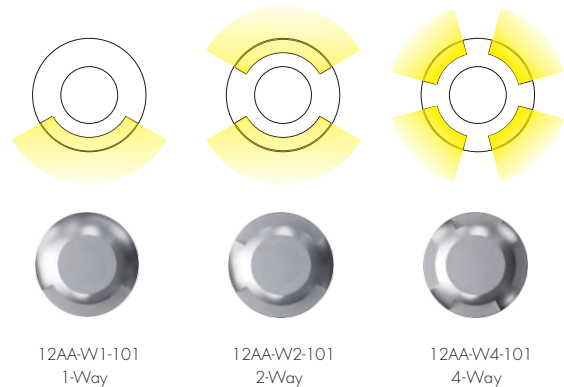
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AC-W1-101	ON/OFF, PWM	2700~6500K	1x5W 1034 CREE COB LED	1-Way 120°	12/24VDC	4.5	-	10
12AC-W2-101	ON/OFF, PWM	2700~6500K	1x5W 1034 CREE COB LED	2-Way 2x120°	12/24VDC	4.5	-	10
12AC-W4-101	ON/OFF, PWM	2700~6500K	1x5W 1034 CREE COB LED	4-Way 4x60°	12/24VDC	4.5	-	10

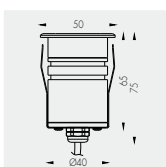
Note: RGB, RGBW color are available upon request.

Material Specifications

Housing and Front Cover:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC 12/24V or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3x0.75mm², L=0.5m (High Voltage 120/240V)
Mounting Part (Optional):	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional PWM, DALI, 0/1-10V, DMX512, TRIAC



Optional Accessories



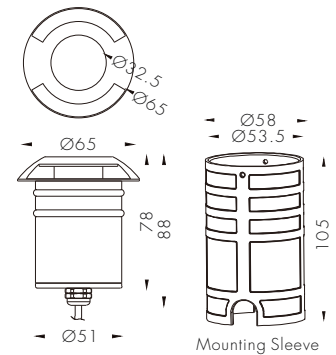
Spring 12AC-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.



Silicone O-ring 12AC-A8
Completed with inground light.
Cannot order separately.

Model No.: 12AD-W | 6.5W | Walk-Over Side Emitting LED Inground Light

Units:mm

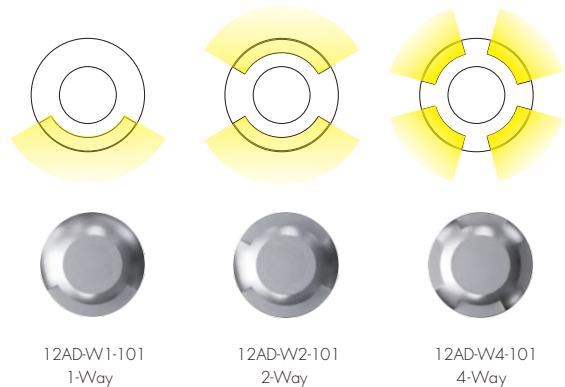
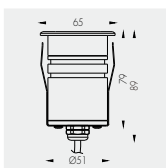
**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (lm)	IK Rate
12AD-W1-101	ON/OFF, PWM	2700~6500K	1x8W 1512 CREE COB LED	1-Way 120°	12/24VDC	6.5	-	10
12AD-W2-101	ON/OFF, PWM	2700~6500K	1x8W 1512 CREE COB LED	2-Way 2x120°	12/24VDC	6.5	-	10
12AD-W4-101	ON/OFF, PWM	2700~6500K	1x8W 1512 CREE COB LED	4-Way 4x60°	12/24VDC	6.5	-	10

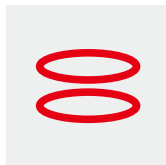
Note: RGB, RGBW color are available upon request.

Material Specifications

Housing and Front Cover:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC12/24V or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2x1.0mm², L=0.5m (Low Voltage12/24VDC) H05RN-F 3x0.75mm², L=0.5m (High Voltage 120/240V)
Mounting Part (Optional):	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional PWM, DALI, 0/1-10V, DMX512, TRIAC

**Optional Accessories**

Spring 12AD-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.

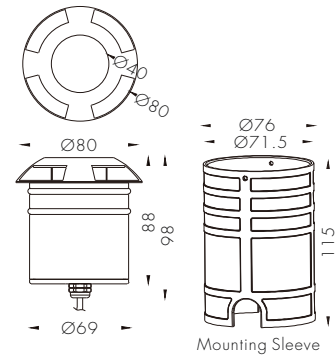


Silicone O-ring 12AD-A8
Completed with inground light.
Cannot order separately.

Model No.: 12AE-W | 10W | Walk-Over Side Emitting LED Inground Light



Units:mm



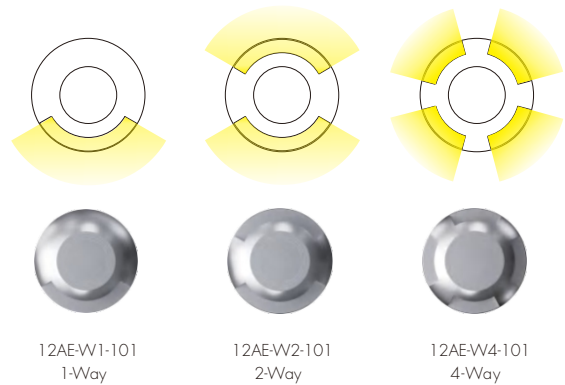
Technical Specifications

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AE-W1-101	ON/OFF, PWM	2700~6500K	1×10W 1512 CREE COB LED	1-Way 120°	12/24VDC	10	-	10
12AE-W2-101	ON/OFF, PWM	2700~6500K	1×10W 1512 CREE COB LED	2-Way 2×120°	12/24VDC	10	-	10
12AE-W2-101	ON/OFF, PWM	2700~6500K	1×10W 1512 CREE COB LED	4-Way 4×60°	12/24VDC	10	-	10

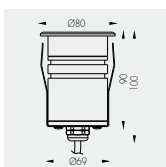
Note: RGB, RGBW color are available upon request.

Material Specifications

Housing and Front Cover:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC 12/24V or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm², L=0.5m (Low Voltage 12/24VDC) H05RN-F 3×0.75mm², L=0.5m (High Voltage 120/240V)
Mounting Part (Optional):	
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional PWM, DALI, 0/1-10V, DMX512, TRIAC



Optional Accessories



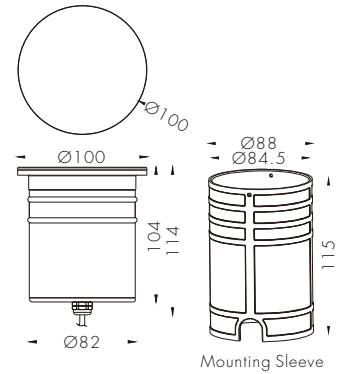
Spring 12AE-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.



Silicone O-ring 12AE-A8
Completed with inground light.
Cannot order separately.

Model No.: SL21066 | 15W | Walk-Over Side Emitting LED Inground Light

Units:mm

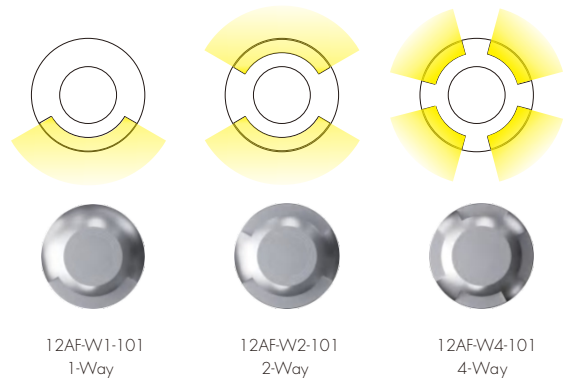
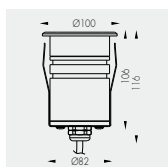
**Technical Specifications**

Item Number	Optional Control Mode	Light Color or CCT (K)	Light Source	Beam Angle (°) (Θ1/2)	Input Voltage (V)	Typical Power (W)±3%	Typical Luminance (LM)	IK Rate
12AF-W1-101	ON/OFF, PWM	2700~6500K	1×15W 1512 CREE COB LED	1-Way 120°	12/24VDC	15	-	10
12AF-W2-101	ON/OFF, PWM	2700~6500K	1×15W 1512 CREE COB LED	2-Way 2×120°	12/24VDC	15	-	10
12AF-W4-101	ON/OFF, PWM	2700~6500K	1×15W 1512 CREE COB LED	4-Way 4×60°	12/24VDC	15	-	10

Note: RGB, RGBW color are available upon request.

Material Specifications

Housing and Front Cover:	12# Die-Casting Black Powder Coated Aluminum, T=60-80μm Adhesion of ISO Class 1/ASTM class 4B
LED:	Type:COB LED, Brands: Osram, Cree and etc.
Driver:	Integral LED Driver with Constant Current Output, Constant voltage DC 12/24V or 120/240VAC input
Operating Temperature:	-20°C~+40°C
Power Cable:	H05RN-F 2×1.0mm ² , L=0.5m (Low Voltage 12/24VDC) H05RN-F 3×0.75mm ² , L=0.5m (High Voltage 120/240V)
Mounting Part (Optional):	Silicone O-Ring (Optional Stainless Steel Spring)
Mounting Sleeve(included):	ABS (For recessed Mount)
Control Support (Optional)	ON/OFF, Optional PWM, DALI, 0/1-10V, DMX512, TRIAC

**Optional Accessories**

Spring 12AF-A6
Made of 316 Stainless Steel
Completed with inground light,
Can not order separately.



Silicone O-ring 12AF-A8
Completed with inground light.
Cannot order separately.



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