

AN INNOVATION LEADER
IN THE LIGHTING WORLD



T·LUCE®



TITAN TL-LED10 SERIES

With simple and super-thin design, TITAN looks very modern. With delicate structure of radiator, TITAN is more powerful in heat sinking and can reach IP66. Multiple choose for installation, makes it more easy for different poles. Tool-free design makes it more convenient for install and maintenance. Moreover, TITAN has wide wattage range from 30W to 280W, which makes it more applicable for different places.

Key Advantage:

- ☒ 5 sizes for different wattage
- ☒ Super luminaire efficiency up to 150 lm/w
- ☒ 10 optics solutions, up to ME1
- ☒ Good Thermal control system to ensure long time
- ☒ Tool-free designing for easy installation and maintenance
- ☒ IP66 & IK09

Application:

- ☒ Residential areas
- ☒ Road and street lighting
- ☒ High way, Airport, Parking place
- ☒ Pathway & Pedestrians
- ☒ Smart city option





Product features



Cooling fins

Electrical connection CLASS A Neutral /Phase are connected to safety switch; for Class B earth wire to be connected on earth stud in housing. 1-10V or DALI incoming wiring is connected to a separate termination block.

Gasket IP66 for complete luminaire .

Gear tray made in high thermal and mechanical resistance thermoplastic material (30% fibreglass), tool free removable after disconnecting the plug.

Gear with INVENTRONICS /OSRAM driver optional programmable, 1-10V or DALI. SPD and EMI as per request.

Fall protection



Mounting with two stainless steel M8 bolts(extra long bolts for small column can be ordered with luminaire).

Housing is made of very corrosion resistant die-cast aluminum. Polyester powder coated painting after chemical washing treatment.

Flat toughened glass to prevent upward light. Fixed to the frame with metal clips for easy replaceability. Very high light transmission to optimise the Light Output Ratio.

Closing clip made of very corrosion resistant die-cast aluminium, fixed to the frame with stainless steel spring, for easy and tool-less operation. Safe Maintenance Technology safety switch disconnects power on opening.

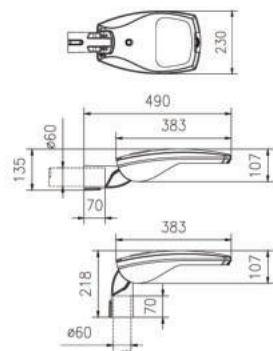
Spigot made of die-cast aluminium, standard in same color as body. Universal post top / side entry spigot for $\varnothing$ 60mm.

Level gauge

Cable connection M20 cable gland with strain relief, for cable $\varnothing$ 10-14mm.

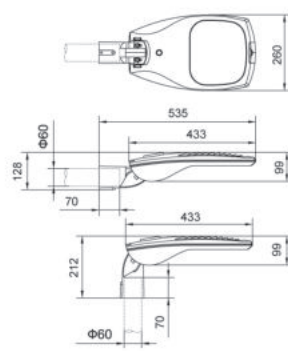


XXS



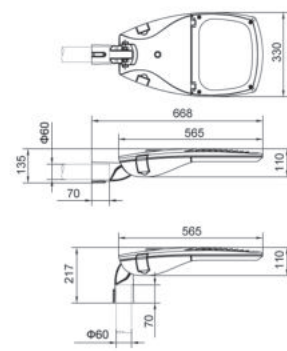
TL-LED10D

XS

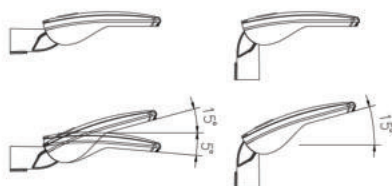


TL-LED10B

S



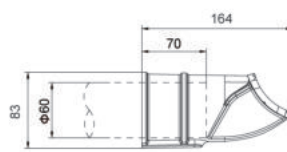
TL-LED10C



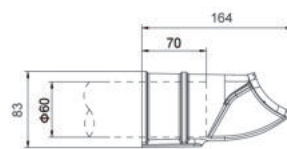
POST TOP/SIDE ENTRE



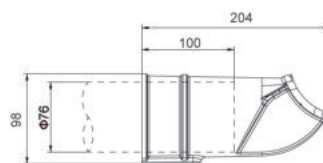
42mm



42mm

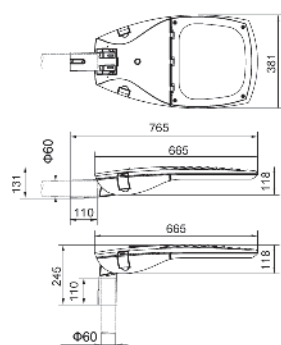


60mm



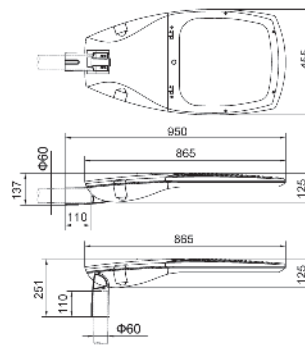
76mm

M

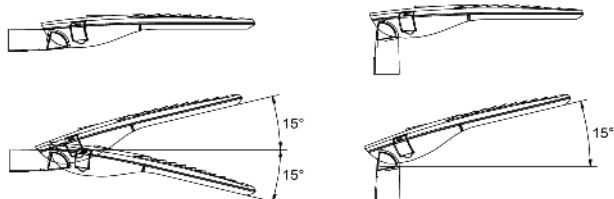


TL-LED10A

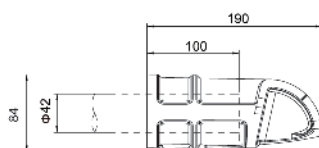
L



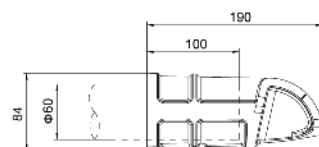
TL-LED10



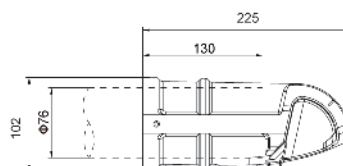
POST TOP/SIDE ENTRE



ϕ 42mm



ϕ 60mm



ϕ 76mm



MARKET-LEADING EFFICIENCY

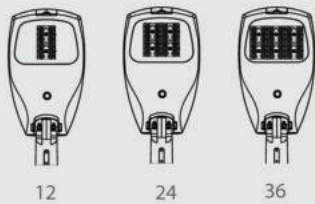
LONG-LIFETIME AND DURABLE CONSTRUCTION

FULL CUTOFF LIGHT DISTRIBUTION (DARK SKY COMPLIANT)

EASY DEPLOYMENT AND TOOL-FREE MAINTENANCE ACCESS

LED Adapt

TITAN SERIES

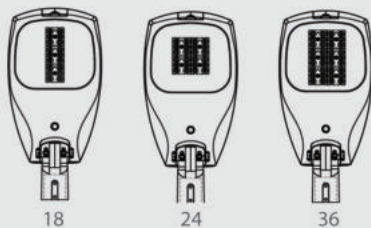


TL-LED10D

XXS

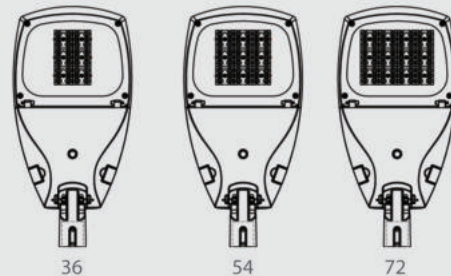
LUXEON 5050

High efficacy and lumens in a multi-die, high power package, enabling low system costs



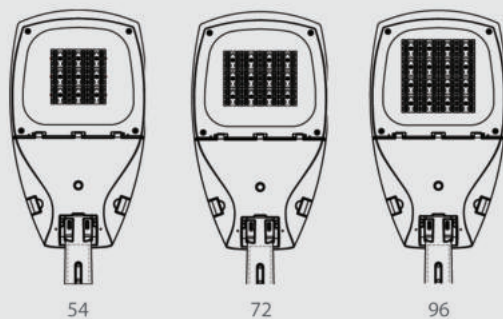
TL-LED10B

XS



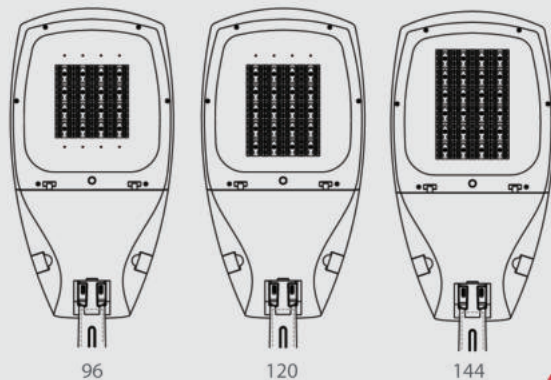
TL-LED10C

S



TL-LED10A

M



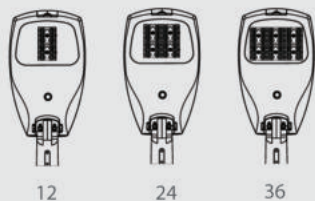
TL-LED10

L

	LEDs	POWER (W) MIN/MAX	LUXEON 5050		L90B10 at 25 °C IESNA TM-21-11	L70 at 25 °C IESNA TM-21-11
			MIN(lm)	MAX(lm)		
XXS	12	10-30	1550	4050	> 40000hrs	> 100000hrs
	24	20-50	3100	6750	> 40000hrs	> 100000hrs
	36	30-50	4650	6750	> 40000hrs	> 100000hrs
XS	18	15-30	2325	4050	> 40000hrs	> 100000hrs
	24	20-50	3100	6750	> 40000hrs	> 100000hrs
	36	30-70	4650	9450	> 40000hrs	> 100000hrs
S	36	30-80	4650	10800	> 40000hrs	> 100000hrs
	54	50-100	7750	13500	> 40000hrs	> 100000hrs
	72	80-150	12400	20250	> 40000hrs	> 100000hrs
M	54	50-100	7750	13500	> 40000hrs	> 100000hrs
	72	70-150	10850	20250	> 40000hrs	> 100000hrs
	96	100-200	15500	27000	> 40000hrs	> 100000hrs
L	96	100-200	15500	27000	> 40000hrs	> 100000hrs
	120	120-240	18600	32400	> 40000hrs	> 100000hrs
	144	150-300	23250	40500	> 40000hrs	> 100000hrs

LED Adapt

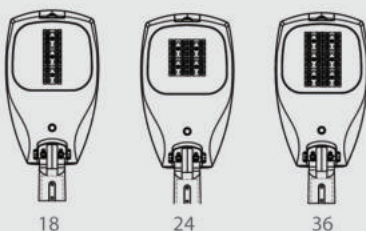
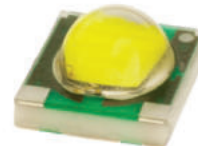
TITAN SERIES



TL-LED10D

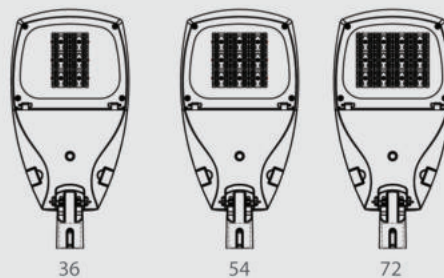
XXS

The XLamp® XP-G3 LED delivers unprecedented levels of light output and efficacy for a single die LED.



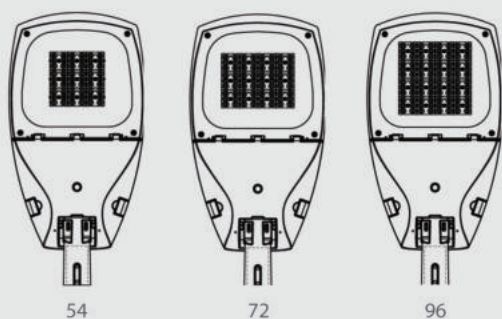
TL-LED10B

XS



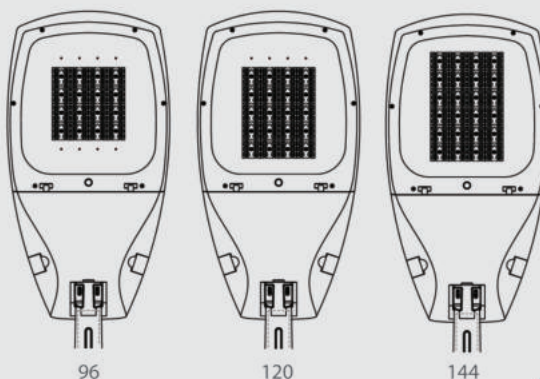
TL-LED10C

S



TL-LED10A

M



TL-LED10

L

	LEDS	POWER (W) MIN/MAX	CREE XP-G3		L90B10 at 25 IESNA TM-21-11	L70 at 25 IESNA TM-21-11
			MIN(lm)	MAX(lm)		
XXS	12	10-30	1300	3300	> 100000hrs	> 100000hrs
	24	20-50	2600	5500	> 100000hrs	> 100000hrs
	36	30-50	3900	5500	> 100000hrs	> 100000hrs
XS	18	15-30	1950	3300	> 100000hrs	> 100000hrs
	24	20-50	2600	5500	> 100000hrs	> 100000hrs
	36	30-70	3900	7700	> 100000hrs	> 100000hrs
S	36	30-80	3900	8800	> 100000hrs	> 100000hrs
	54	50-100	6500	11000	> 100000hrs	> 100000hrs
	72	80-150	10400	16500	> 100000hrs	> 100000hrs
M	54	50-100	6500	11000	> 100000hrs	> 100000hrs
	72	70-150	9100	16500	> 100000hrs	> 100000hrs
	96	100-200	13000	22000	> 100000hrs	> 100000hrs
L	96	100-200	13000	22000	> 100000hrs	> 100000hrs
	120	120-240	15600	26400	> 100000hrs	> 100000hrs
	144	150-300	19500	33000	> 100000hrs	> 100000hrs



Product features

PARAMETER

TECHNICAL DATA

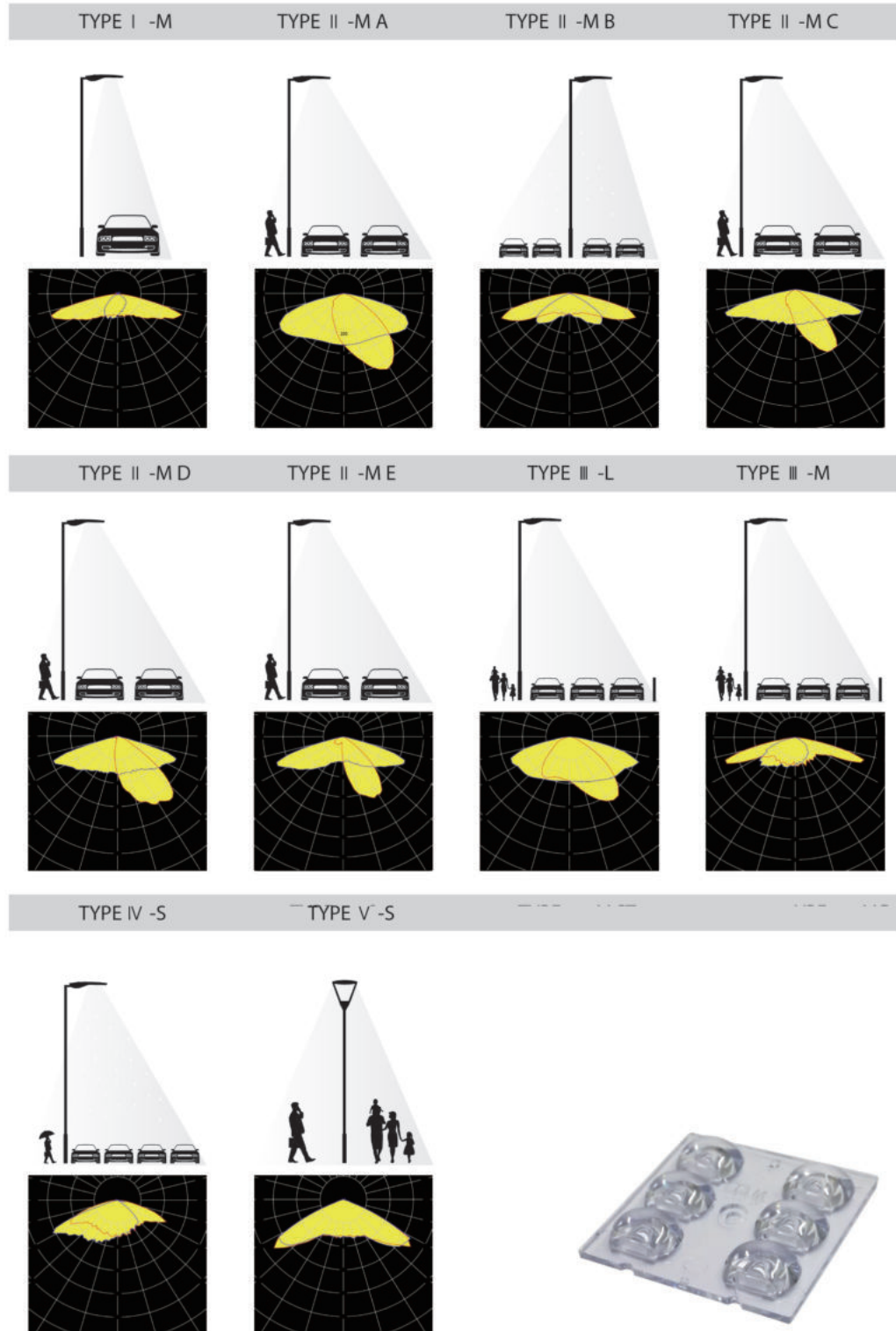
Type	TITAN SERIES
Light source	SMD LED Module
Color temperature	4000K as standard. Optional 2700K, 3000K & 5000K & 5700K. Amber LED available
Color stability	3 or 5 MacAdam steps for all standard LED colors
Color Rendering Index	>70 or >80 (neutral white and cool white)
Luminous Flux (led flux @ Ta=25C outdoor)	from 1800 to 45000 lm
Power	from 10W up to 350W
Luminaire efficiency	130-155 lm/W
Constant lumen output (CLO)	as requirement
Optics Material	PC
Optical Cover	Tempered Glass (5mm)
ULOR (%)	0% for flat glass versions
Spigot diameter	42 mm, 60 mm, 76 mm
Control inputs	DALI, 0-10V, Astro Dim, Step Dim
Electrical class	class I and class II (According to IEC-EN 60598)
Color	RAL7024 as standard (RAL or AKZO Future colors available)
IP rating	IP66
IK rating	IK09 (according to IEC - EN 62262)
Windage $\dot{M}$	XS 0.023 / S 0.048 / M 0.058 / L 0.088
Operating temperature range	-40°C < Ta ≤ 50°C
LED module thermal protection	yes
Driver thermal protection	yes
Surge protection	4kV (10kV available as an option)
Options	mini Photocell and NEMA socket, including cable
Certifications	CE CB ENEC(in certification)
Material	ADC12 / Lower copper contents

Optics Available

Street series 2X3



50 x 50 mm
up to
5050
size
LED
packets
For street and
urban light

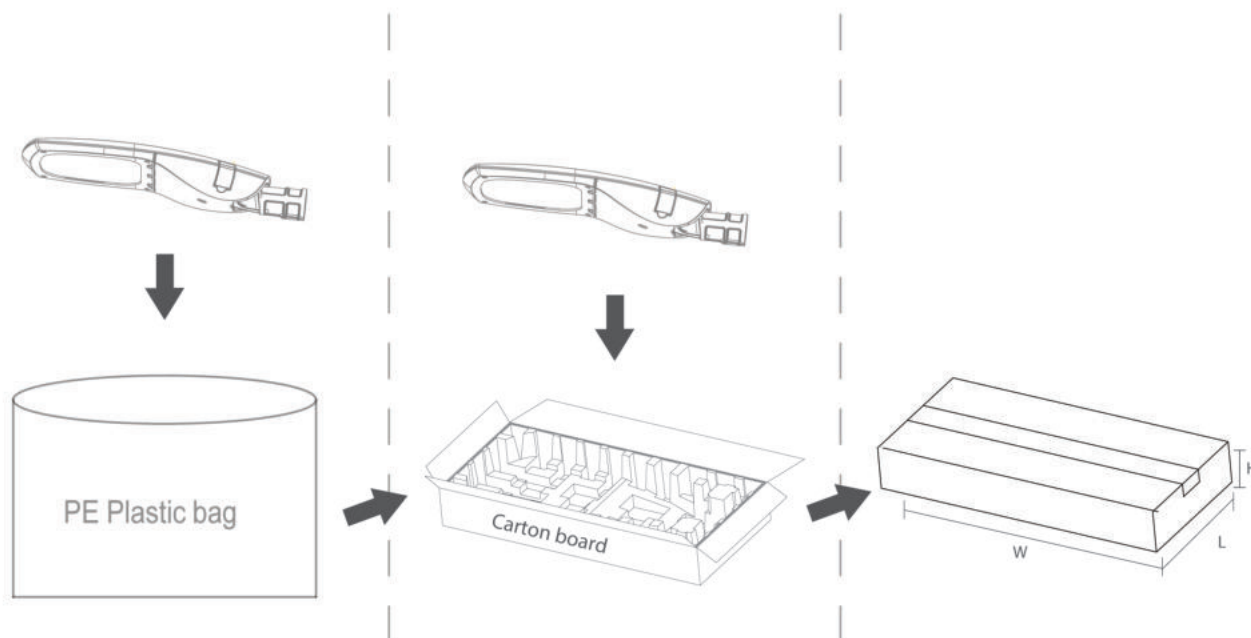




VERSION	RECOMMENDED MOUNTING HEIGHT (METERS)
TITAN XXS	3-6M
TITAN XS	3-6M
TITAN S	4-8M
TITAN M	6-12M
TITAN L	12-15M



Packing Information



Model	Carton Size (mm) L*W*H	QTY / Carton	N.W.(kg)	G.W.(kg)	QTY for Container 20FT	QTY for Container 40HQ
TL-LED10D/30W	595*315*130	1	3.50	4.50	1150	2800
TL-LED10B/60W	605*315*140	1	4.55	5.65	950	2400
TL-LED10C/120W	735*390*130	1	7.60	9.00	700	1700
TL-LED10A/150W	830*435*145	1	10.50	12.10	500	1200
TL-LED10/280W	1010*500*155	1	15.10	18.00	305	900





Surge Protection device

Surge Protection device offers protection against lighting surges;

Voltage Protection level up (L-N) $\leq 1,5$ kV

Voltage Protection level up (L/N-PE) $\leq 2,0$ kV

$U_{oc} = 10$ kV

$I_{max} = 10$ kA

$I_{nom} = 5$ kA



Surge Protection device

Maximum Discharge Current (I_{max}) 10kA, 8/20 μ s

• Meets ANSI C136.2 Enhanced Level 10kV/5kA, IEEE C62.41.2 Location Category C Low Exposure and US Dept. of Energy MSSLC Model Spec.

- Thermally Protected Varistor technology
- Parallel and Series Connected SPD Options
- IP66 Water-proof and Dust-proof



Shorting Cap

Standard: ANSI C136.10-1996



Photocell

Standard: ANSIC136.10-2010



Nema Socket

Standard : ANSI C136.10



Zhaga Connector

- Contacts rating: 1.5A, 30V (24V typical)
- Meets 10kV dielectric withstand voltage to mounting surface
- 4 pole contacts
- Pin 1: 24Vdc
- Pin 2: DALI (or DALI based protocol) -/common ground
- Pin 3: DALI (or DALI based protocol) +
- Pin 4: General I/O



Console adapter

Spigot size 60 - 76 mm



Wall mounting bracket

Spigot size 40 - 60 mm



Wall mounting bracket

Vertical



Microwave Motion Sensor

Detailed Product Description

Operating Voltage:120-277Vac, 50/60Hz

HF System:5.8GHz $\pm$ 75MHz, ISM Wave Band

IP Rating:IP65

Rated Load:120Vac 4A Electronic/magnetic Ballast

277Vac 3A Electronic/magnetic Ballast

Operation Temperature: -25 $^{\circ}$ C ~ 55 $^{\circ}$ C

Function:2 Step /3 Step Dimming/ On Off Function

Mounting Height: 6-15m

Cover Color: Blank Or White

Hold Time: 5s/30s/1min/3min/5min/10min/20min/30min



Connector

10m cable with IP66 rated connector offers easy installation of the street luminaires.

3 wire cable connector



Pre-installed cable sets

Pre-installed cables sets in the luminaire

Diameter of the cable:

3 x 1,5 mm - 0,5 m lenght

3 x 1,5 mm - 5 m lenght

3 x 1,5 mm - 6 m lenght

3 x 1,5 mm - 8 m lenght

3 x 1,5 mm - 10 m lenght

3 x 1,5 mm - 12 m lenght

3 x 1,5 mm - 18 m lenght



Pre-installed cable sets

Pre-installed cables sets in the luminaire

Diameter of the cable:

5 x 1,5 mm - 0,5 m lenght

5 x 1,5 mm - 5 m lenght

5 x 1,5 mm - 6 m lenght

5 x 1,5 mm - 8 m lenght

5 x 1,5 mm - 10 m lenght

5 x 1,5 mm - 12 m lenght

5 x 1,5 mm - 18 m lenght



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