

vizulo



MICRO  
MARTIN



- | **Architectural & Landscape**
- | **Sports Lighting**
- | **Large Outdoor Industrial Area**
- | **Agricultural Area**

- | **Ventilation cable gland**  
Combines pressure equalization and cable gland in a single unit. It ensures high air flow rates as well as high water protection capacity
- | **Glass**  
Flat glass. Glass is fixed to die-cast aluminium frame with screws
- | **LED module**  
High quality LED's with optimal thermal resistance and energy consumption characteristic, for high lumen output and long expected life time. Color temperature available: 3000K, 4000K (5000K, 5700K available on customer request)
- | **Intelligent light control system**  
Power line or radio frequency
- | **Protection**  
IP66 for the complete luminaire

- | **Module temperature control**  
The LED driver will start reducing the light output when the LED's approach critical temperature. The temperature is measured via a sensor placed on the PCB (function available on customer request)
- | **Body**  
Die-cast aluminium
- | **Lighting protection**  
Built-in surge protection starting from 6 kV till 10 kV
- | **Light regulation**  
MICRO MARTIN drivers offer integrated midnight dimming and network-controlled 1-10V and DALI protocols
- | **Impact resistance**  
IK08 (Vandal protected) for the complete luminaire

## I Traffic roads

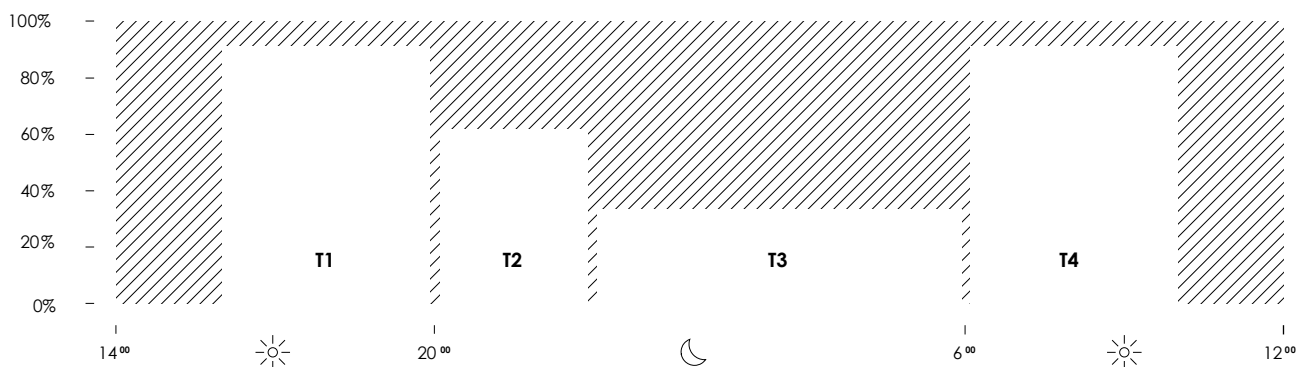
**Pedestrian Roads**

**Residential Street/Area**

**City Centre**

## I Midnight dimming

Midnight dimming provides multi-stage night-time power reduction based on an internal timer referenced to the power on/off time. There is no need for an external control infrastructure. The unit automatically performs a dimming profile based on the predefined scheduled reference to the midpoint, which is calculated based on the power on / off times.





With fins



Smooth

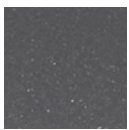
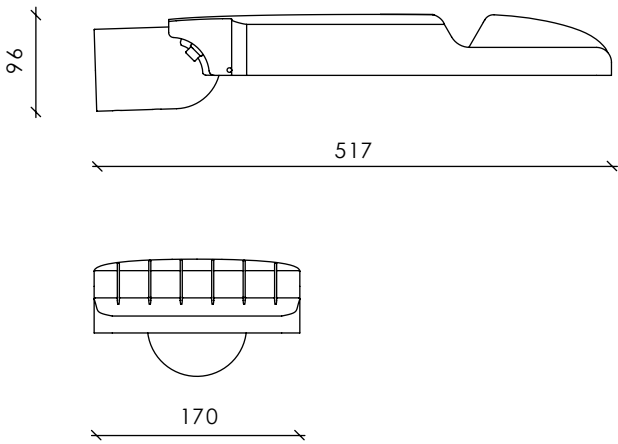


Tool-less



Tool-less | Smooth

| **With fins**



DB703

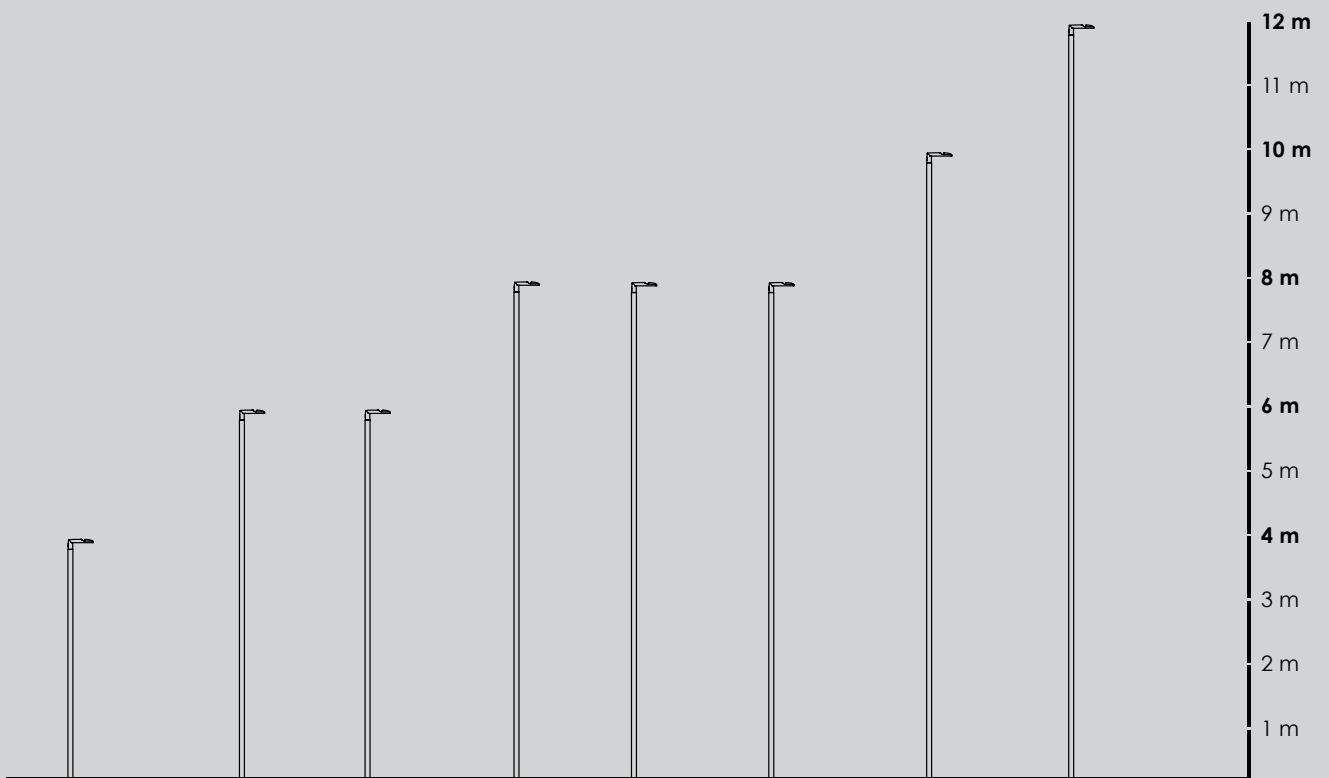


RAL9006

OTHER COLORS AVAILABLE ON REQUEST



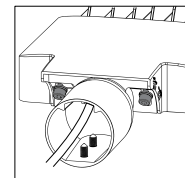
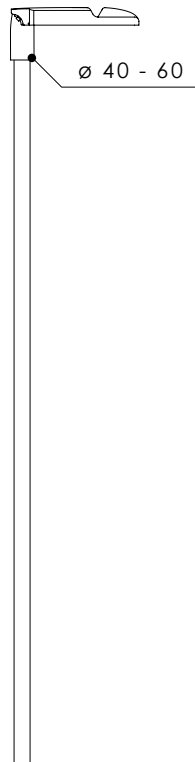
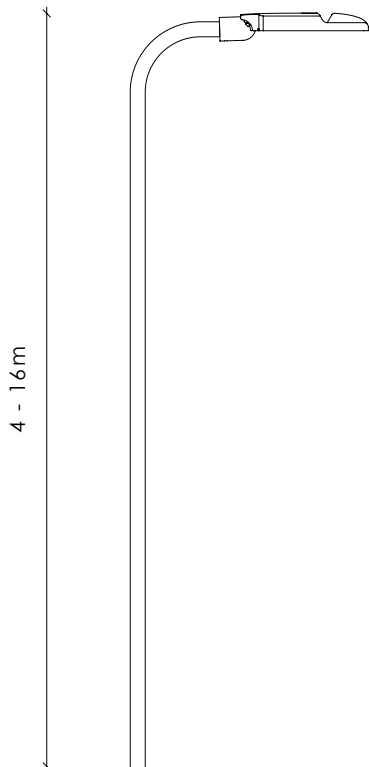
## | Pole height proposition



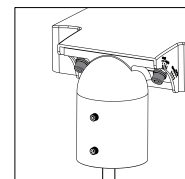
Pole height	4m	6 - 8 m	8 - 12 m
Standard modules	18 W	37 W	
High-density modules		37 W	75 W
ECO	18 W	37 W	75 W



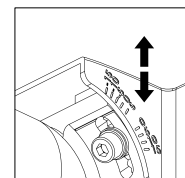
| Console



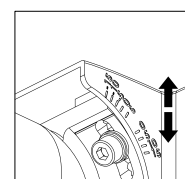
Horizontal entry



Vertical entry



$\leq -20 \dots 5$



$\leq 0 \dots 20$

**Technical information**  
Standard modules

**V** 220 - 240  
**Hz** 50 - 60  
**W** 8 - 37  
**lm** 914 - 4324  
**lm/W** 110 - 125  
**K** 3000 / 4000 <sup>1</sup>  
**°C** -40 to +50  
**CRI** >70 / >80 <sup>2</sup>

1-10V; DALI; Midnight dimming  
 Radio frequency <sup>3</sup>  
 Body: Die-cast aluminum  
 Spigot: ø 40-60, with accessories ø 32; ø 76  
 Neto weight: 3,7 - 3,75 kg  
 3; 6; 10 kV (optional) <sup>4</sup>  
 Warranty 5 years  
 100 000 h (L95B10C10) <sup>5</sup>  
 150 000 h (L90B10C10) <sup>5,6</sup>  
 Max.wind load area, SCd, m<sup>2</sup>: 0,036



4000K

	8			16		
<b>Number of LED's</b>						
<b>Nominal current, mA</b>	350	520	700	350	520	700
<b>Power, W</b>	10	15	19	19	27	37
<b>Luminous Flux, lm</b>	1162	1687	2137	2360	3333	4450
<b>Efficacy, lm/W</b>	116	113	113	124	124	120
<b>Power factor, PF</b>	0,81	0,85	0,9	0,9	0,95	0,97

Luminaire efficacy

3000 K	8 - 37 W	884 - 4313 lm	102 - 124 lm/W
4000 K	8 - 37 W	914 - 4450 lm	119 - 137 lm/W
5000 K	8 - 37 W	914 - 4450 lm	119 - 137 lm/W

- 1 5000; 5700 K available on request
- 2 Luminaires with color rendering index (CRI): Ra >90 on request
- 3 Optional. Available only with DALI ; 1 - 10 V
- 4 10 kV ( L-N; L/N-PE ) surge protection device available on request
- 5 at Ta=25°, this value is only informative and may change according to selected article
- 6 150 000 h for LED's only, drivers 100 000 h

Last modified | **2019, 12 February**  
Data subject to change

**Technical information**  
High density modules

**V** 220 - 240  
**Hz** 50 - 60  
**W** 10 - 75  
 10 - 50 <sup>(1)</sup>  
**lm** 1221 - 9130  
**lm/W** 120 - 133  
**K** 3000 / 4000 <sup>(2)</sup>  
**°C** -40 to +50  
**CRI** >70 / >80 <sup>(3)</sup>

1-10V; DALI; Midnight dimming  
 Radio frequency <sup>(4)</sup>  
 Body: Die-cast aluminum  
 Spigot: ø 40-60, with accessories ø 32; ø 76  
 Neto weight: 3,7 - 3,75 kg  
 3; 6; 10 kV (optional) <sup>(5)</sup>  
 Warranty 5 years  
 100 000 h (L95B10C10) <sup>(6)</sup>  
 150 000 h (L90B10C10) <sup>(6,7)</sup>  
 Max.wind load area, SCd, m<sup>2</sup>: 0,036



4000K

	16			32		
<b>Number of LED's</b>						
<b>Nominal current, mA</b>	350	500	740	350	500	760
<b>Power, W</b>	19	26	37	35	50	75
<b>Luminous Flux, lm</b>	2434	3283	4462	4654	6458	9130
<b>Efficacy, lm/W</b>	128	126	120	133	129	122
<b>Power factor, PF</b>	0,88	0,94	0,97	0,83	0,93	0,98

Luminaire efficacy

3000 K	10 - 75 W	1182 - 8835 lm	107 - 128 lm/W
4000 K	10 - 75 W	1221 - 9130 lm	124 - 140 lm/W
5000 K	10 - 75 W	1221 - 9130 lm	134 - 140 lm/W

**1** Micro Martin Smooth

**2** 5000; 5700 K available on request

**3** Luminaires with color rendering index (CRI): Ra >90 on request

**4** Optional. Available only with DALI ; 1 - 10 V

**5** 10 kV ( L-N; L/N-PE ) surge protection device available on request

**6** at Ta=25°, this value is only informative and may change according to selected article

**7** 150 000 h for LED's only, drivers 100 000 h

## Technical information

### ECO

**V** 220 - 240  
**Hz** 50 - 60  
**W** 5 - 75  
 5 - 50 <sup>(1)</sup>  
**lm** 559 - 8832  
**lm/W** 1217 - 142  
**K** 3000 / 4000 <sup>(2)</sup>  
**°C** -40 to +50  
**CRI** >70 <sup>(3)</sup>

1-10V; DALI; Midnight dimming  
 Radio frequency / Power line <sup>(4)</sup>  
 Body: Die-cast aluminum  
 Spigot: ø 40-60, with accessories ø 32; ø 76  
 Neto weight: 3,7 - 3,75 kg  
 3; 6; 10 kV (optional) <sup>(5)</sup>  
 Warranty 5 years  
 100 000 h (L80/B10) <sup>(6)</sup>  
 Max.wind load area, SCd, m<sup>2</sup>: 0,036



4000K

	4			8			16		
<b>Number of LED's</b>									
<b>Nominal current, mA</b>	140	520	700	250	500	700	250	500	700
<b>Power, W</b>	5	15	20	14	27	38	27	52	75
<b>Luminous Flux, lm*</b>	559	1801	2307	1934	3483	4558	3842	6775	8832
<b>Efficacy, lm/W</b>	110	120	115	139	129	120	142	130	118
<b>Power factor, PF</b>	0,69	0,9	0,95	0,91	0,94	0,98	0,71	0,94	0,97

1 Micro Martin Smooth

2 5000; 5700 K available on request

3 Luminaries with color rendering index (CRI): Ra > 80 is available according to customers special orders

4 Optional. Available only with DALI ; 1 - 10 V

5 10 kV ( L-N; L/N-PE ) surge protection device available on request

6 Average lifetime value for ECO model at Ta = 25C is 100 000h L80/B10\*

\*This value is only informative and may change according to selected article. LED Lifetime is strongly depending from LEDs current and junction temperature – increase in LED current and luminaire power lead to increase of junction temperature and as consequence lifetime decrease. Thus, luminaire models with lower power, lower current (and lower junction temperature) will have higher lifetime than standard models and will reach 100 000h L90/B10. And high power and high current luminaire models may have negative lifetime deviation comparing to standard models. To receive precise value please contact VIZULO export representatives.

Last modified | 2019, 15 July  
Data subject to change

## | MCB / Inrush current table

### Tridonic LED driver

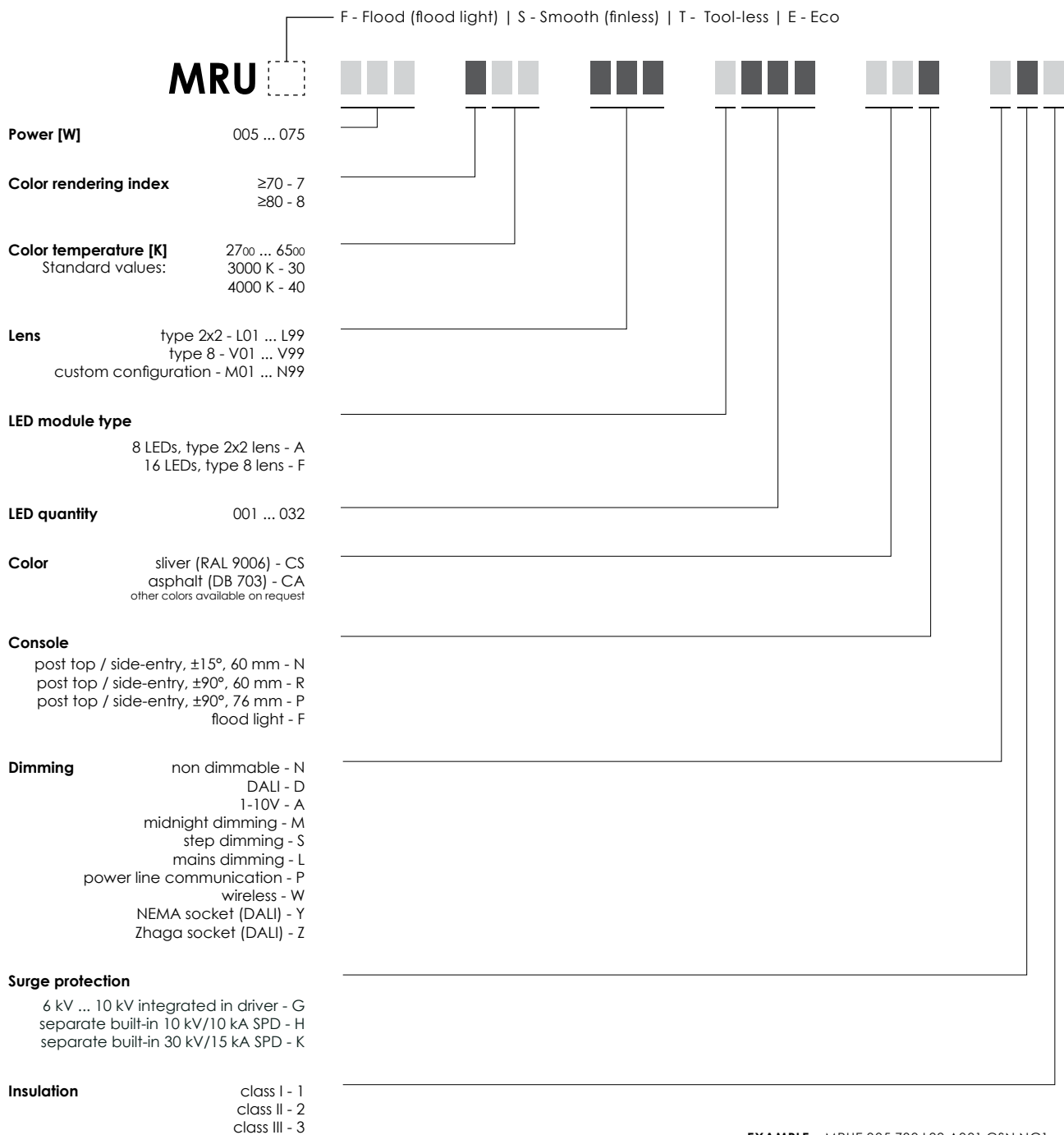
Standard/High density	In-rush current (peak/duration)	B10A	B16A	B20A	B25A	C10A	C16A	C20A	C25A
MRU 8-16 LED, 8-33 W	36 A (195 $\mu$ s)	10	16	21	28	16	21	35	44
MRU 16-28 LED, 19-60 W	32 A (267 $\mu$ s)	7	12	15	19	11	20	25	30
MRU 32 LED, 28-75 W	32 A (267 $\mu$ s)	7	12	15	19	11	20	25	30
Eco		B10A	B16A	B20A	B25A	C10A	C16A	C20A	C25A
MRUE 4-12 LED, 8-33 W	36 A (195 $\mu$ s)	10	16	21	28	16	21	35	44
MRUE 6-12 LED, 17-60 W	32 A (267 $\mu$ s)	7	12	15	19	11	20	25	30
MRUE 12-16 LED, 22-75 W	37 A (287 $\mu$ s)	7	12	15	19	11	20	25	30

### Osram LED driver

Standard/High density	In-rush current (peak/duration)	B10A	B16A	B20A	B25A	C10A	C16A	C20A	C25A
MRU 8-16 LED, 8-40 W	45 A (180 $\mu$ s)	10	17	21	28	16	27	33	44
MRU 20-32 LED, 18-66 W	53 A (200 $\mu$ s)	7	12	15	20	11	19	24	32
MRU 32 LED, 67-75 W	57 A (210 $\mu$ s)	7	12	15	20	11	19	24	32
Eco		B10A	B16A	B20A	B25A	C10A	C16A	C20A	C25A
MRUE 4-8 LED, 11-41 W	45 A (180 $\mu$ s)	10	17	21	28	16	27	33	44
MRUE 6-16 LED, 16-66 W	53 A (200 $\mu$ s)	7	12	15	20	11	19	24	32
MRUE 16 LED, 67-75 W	57 A (210 $\mu$ s)	7	12	15	20	11	19	24	32

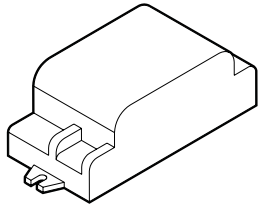


# I Model name principles



**EXAMPLE** MRUE 005 730 L99 A001 CSN NG1

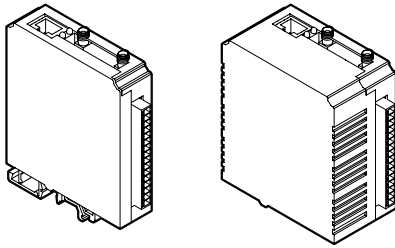
## | Accessories



### Citintelly Luminaire controller

Luminaire Controller is wireless mesh-networking device that uses 868 MHz for communication with Segment Controller and other Luminaire Controllers. It is delivered in various configurations to meet the needs of your applications.

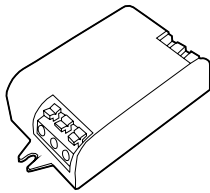
Art. 70010001 | Luminaire controller, 2 relay  
 Art. 70010002 | Luminaire controller, 1 relay



### Citintelly Segment controller

Segment Controller receives commands from Citintelly server via GSM and transmits tasks to Luminaire Controller via radio frequency communication.

Art. 70000101



### Citintelly Surge Protection device

Surge Protection device offers protection against lighting surges;

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

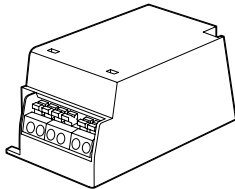
Voltage Protection level up (L/N-PE)  $\leq 1,8$  kV

$U_{oc} = 10$  kV

$I_{max} = 10$  kA

$I_{nom} = 5$  kA

Art. 70002001



### Surge Protection device

Surge Protection device offers protection against lighting surges;

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

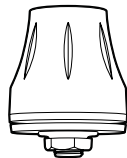
Voltage Protection level up (L/N-PE)  $\leq 2,0$  kV

$U_{oc} = 10$  kV

$I_{max} = 10$  kA

$I_{nom} = 5$  kA

Art. 70000203



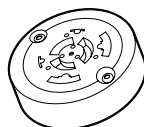
### Radio Frequency Antenna

Heavy duty IP67 enclosure

Mounted in cabinet or luminaire body with 14 mm screw

SMA connector

Art. 70000108



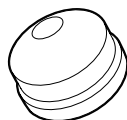
### NEMA Socket

2213362-3, 5 pin NEMA socket 105°C wires

Art. 70000362

2213362-4, 7 pin NEMA socket 105°C wires

Art. 70000333



### Dummy Link for NEMA Socket

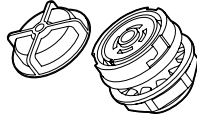
Art. 70000113





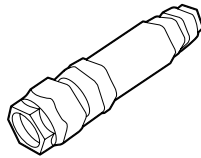
**Zhaga socket no cap**

Art. 70000612



**Zhaga socket with cap**

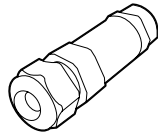
Art. 70000613



**Connector**

IP66 rated connector offers easy installation of luminaires.  
3 wire cable connector

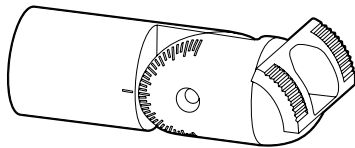
Art. 70000313



**Connector**

IP66 rated connector offers easy installation of luminaires.  
5 wire cable connector

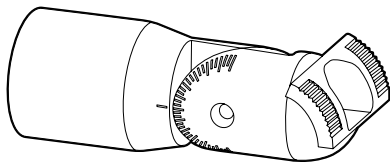
Art. 70000315



**Adjustable Console  $\pm 90^\circ$**

60 mm - Mini Martin / Micro Martin

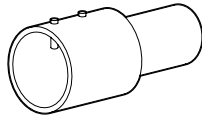
Art. 70055005



**Adjustable Console  $\pm 90^\circ$**

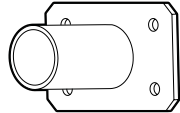
76 mm - Mini Martin / Micro Martin

Art. 70055006



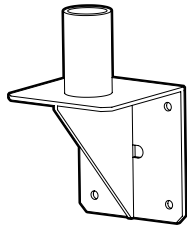
**Console adapter**  
Spigot size 60 - 76 mm

Art.70044002



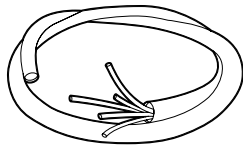
**Wall mounting bracket**  
Spigot size 40 - 60 mm

Art.70044001



**Wall mounting bracket**  
Vertical

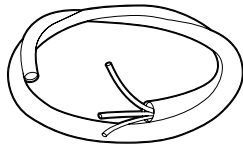
Art.70044004



**Pre-installed cable sets**

Pre-installed cables sets in the luminaire  
Diameter of the cable:

3 x 1,5 mm - 0,5 m length	Art. 70000319
3 x 1,5 mm - 5 m length	Art. 70000320
3 x 1,5 mm - 6 m length	Art. 70000321
3 x 1,5 mm - 8 m length	Art. 70000322
3 x 1,5 mm - 10 m length	Art. 70000323
3 x 1,5 mm - 12 m length	Art. 70000324
3 x 1,5 mm - 18 m length	Art. 70000325



Pre-installed cables sets in the luminaire  
Diameter of the cable:

5 x 1,5 mm - 0,5 m length	Art. 70000305
5 x 1,5 mm - 5 m length	Art. 70000316
5 x 1,5 mm - 6 m length	Art. 70000317
5 x 1,5 mm - 8 m length	Art. 70000318
5 x 1,5 mm - 10 m length	Art. 70000306
5 x 1,5 mm - 12 m length	Art. 70000307
5 x 1,5 mm - 18 m length	Art. 70000308

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