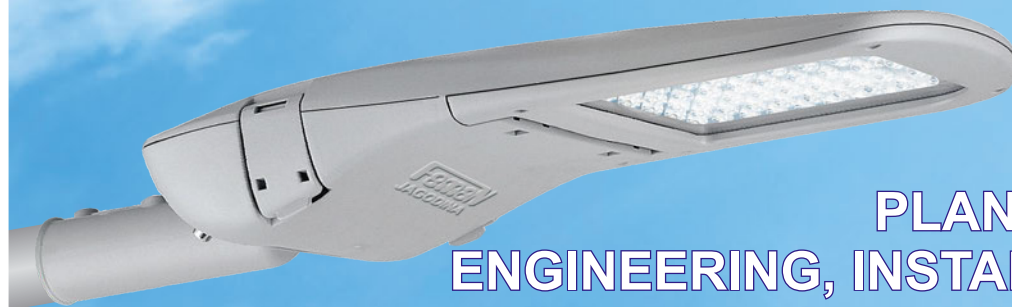


ALL IN ONE PLACE



PLANNING,
ENGINEERING, INSTALLING

LIGHTING



4

2020



Feman

Serbia - Jagodina

tel: +381 35 8230 000

fax: +381 35 8230 024

www.feman.net

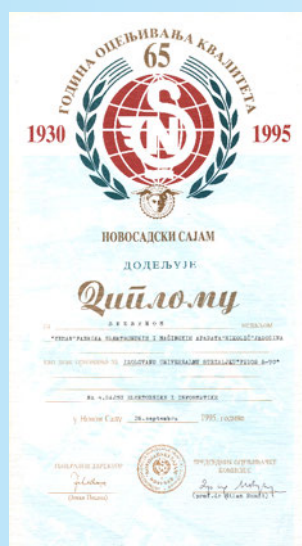
Quality above all

ON CUSTOMER'S REQUEST WE WILL DELIVER THE GENERAL CATALOGUE

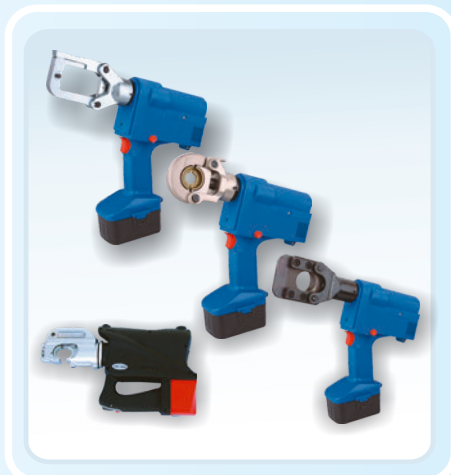
+2000
products



35 YRS. LONG TRADITION - THE PROOF OF QUALITY



35 YRS. LONG TRADITION - FACTORY FOUNDED 1985.



BRIEF OVERVIEW of other FEMAN products



**... MORE THAN
2000 PRODUCTS ...**

*Quality
above all*



*The creator of this business
idea is Mr. Miodrag Nikolić, an
electrical engineer who is the
founder and owner of the
factory Feman doo*

ON CUSTOMER'S REQUEST WE WILL DELIVER THE GENERAL CATALOGUE

FEMAN FACTORY PRODUCTION ASSORTMENT

STREET LIGHTING



ACU CLIPPERS AND PRESS FAMP 42

FAP 300D-18 WITH DISPLAY



THREE TOOLS
IN ONE

FAP 300V-18

perforation of
metal sheets

cutting the conductor

pressing the coupling
elements



HYDRAULIC COMBINED
PUMP FKPU-700D (700bar)



MANUAL MECHANICAL
PRESSES FP-50 AND FP-120



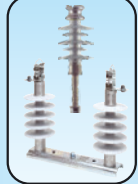
AUTOMATIC
GRIPPERS



SILICONE ISOLATORS



HYDRAULICHEAD
FHP-300



MANUAL BOLT CROPPERS AND
CABLE CROPPERS



HYDRAULI
SHEARS
FCPC-87A



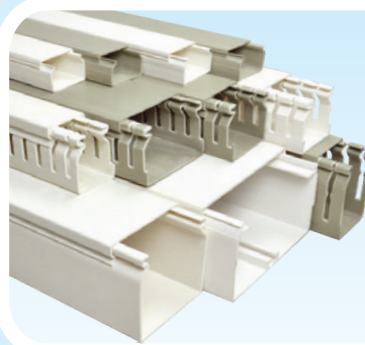
HYDRAULIC
HEAD FS-240



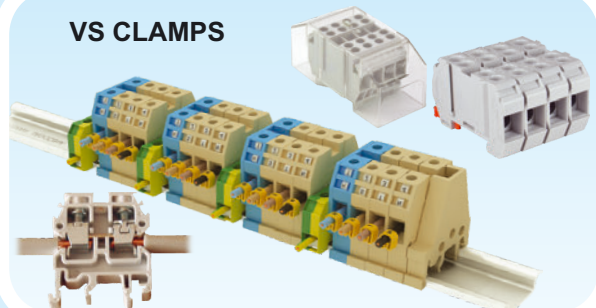
MANUAL HYDRAULIC
PRESA FTP-300



PVC CABLE TRUNKING



VS CLAMPS



LED LIGHTS PRODUCTION ASSORTMENT

LED tubes



5

years
warranty

LED panels - various dimensions



5

years
warranty

All types of LED bulbs



5

years
warranty

Watertight LED lights



5

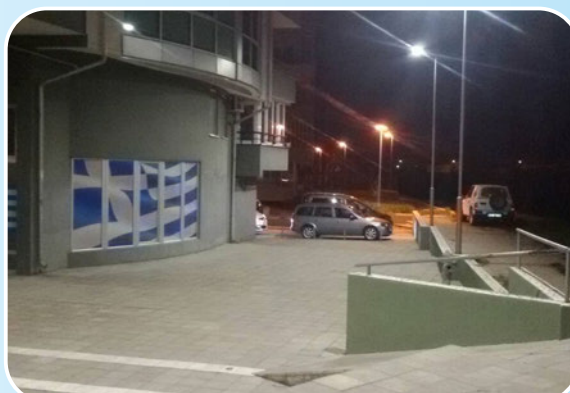
years
warranty

FEMAN REFERENCE

over 10 countries and 20 municipalities in Serbia



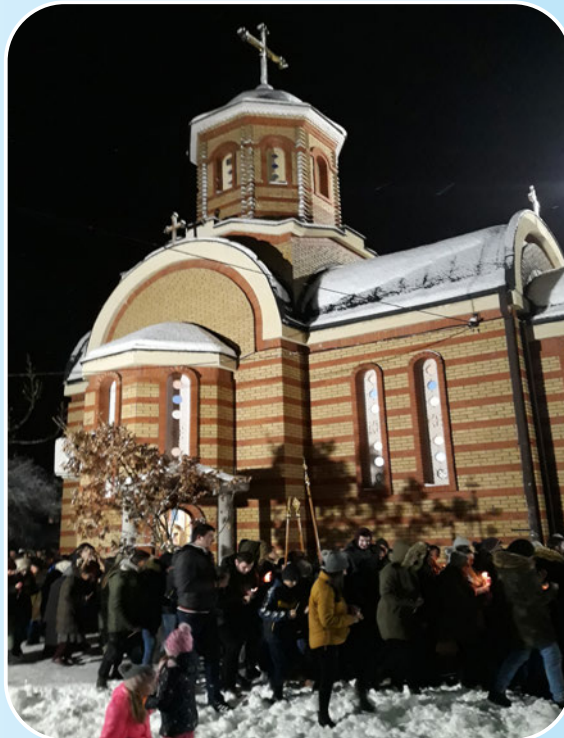
Sea coast - Albania



Greek Consulate - Jagodina



Feman advertising pole with lighting



St. Luke's Church in Rakitovo
- the donor - owner of the factory "Feman",
Miodrag Nikolic with his family



Factory Banini

FEMAN REFERENCE

over 10 countries and 20 municipalities in Serbia



Cargo center - Jagodina



High school Jagodina



Access road - Petrovac na Mlavi



Church in Levač - Tečić



Customs center - Jagodina

FemaN

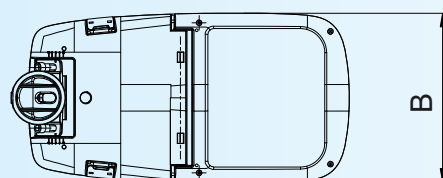
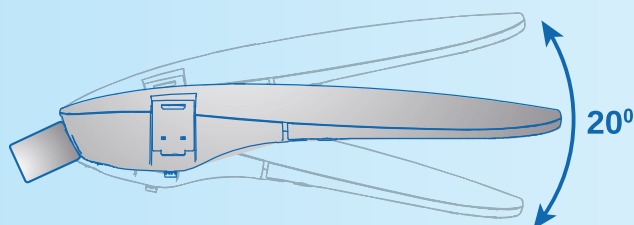
ALL IN ONE PLACE

**PLANNING
ENGINEERING
PRODUCTION
INSTALLATION**

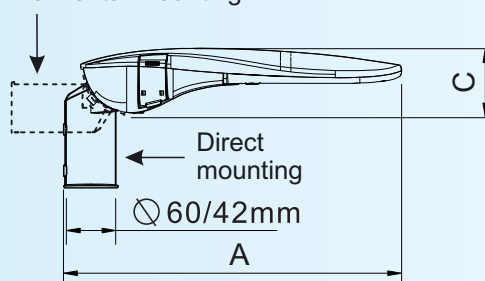


LED PERUN 1 (10-60W)

street lamps on poles



Horizontal mounting



It is used for illuminating streets, parks, squares, parking lots, factory circuits and all other places where good lighting is needed.

Lamp housing is made of aluminum alloy cast under pressure. LED protector is made of flat tempered glass, and lenses are made of high temperature and UV rays resistant polycarbonate. Lamp holder can be mounted on a metal pillar at the angle of 90° with the possibility of angle adjustment of $\pm 10^\circ$, and also can be mounted on a lyre at the angle of 180° with possibility of angle adjustment of $\pm 10^\circ$. The surface protection of the lamp is done by electrostatic painting in color RAL7035.

Total output flux is 120-145lm/W. Light color is 3000, 4000 or 6500K.

The complete lamp is made in the IP 66 (optionally in IP 67) level of protection according to EN 60598 and EN 60529 standards. The level of mechanical protection in the basic version is IK 08 according to EN 62262 and EN 60068 standards. If requested, we can produce lamps with higher performance tempered, 6-10mm thick glass with a degree of mechanical protection IK 09, or even IK 10. The lamp is certificated according to EN 13032 and EN 60598 standards.

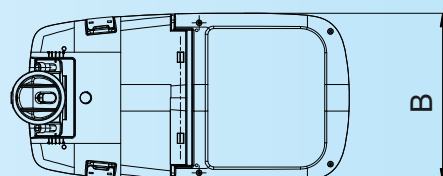
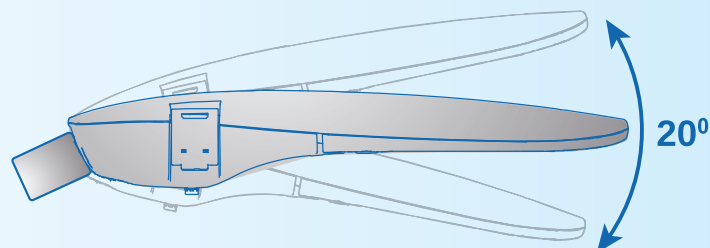
The power supply temperature is within the range of -40 to +70°C (ambient T_a) and power supply cables from -40 to +80°C (T_c), with automatic switch-off if the maximum allowed temperature is reached until the lighting is switched on again. The power supply of the lamp is with input voltage range within 100-300VAC and it has the ability to adjust the output current with potentiometer. The lamp is very convenient for rural areas where there is a large oscillation of input voltages. The lamp has short-circuit protection, overcurrent and surge protection.

The work expectancy of the power supply is 77.500 hours at T_c - temperature of the enclosure of 73°C, while when it is $T_c < 70^\circ\text{C}$, it is greater than 88.000 hours which is equivalent to 20 years of the operation of lamp with around 4.000 working hours per year. The declared durability of the LED is about 100.000 hours until the fall of the light flux to 80%.

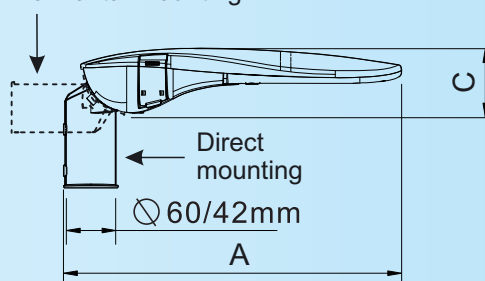
| Code no. | Lamp | A | B | C | Weight (kg) | Mount |
|----------|-----------------------|--------|--------|-------|-------------|---------|
| 3900530 | LED PERUN 1 - max 30w | 470 mm | 245 mm | 90 mm | 4,5 | ø 48-60 |
| 3900550 | LED PERUN 1 - max 50w | 470 mm | 245 mm | 90 mm | 4,5 | ø 48-60 |

LED PERUN 2 (40-120W)

world-class design 2018



Horizontal mounting



It is used for illuminating streets, parks, squares, parking lots, factory circuits and all other places where good lighting is needed.

Lamp housing is made of aluminum alloy cast under pressure. LED protector is made of flat tempered glass, and lenses are made of high temperature and UV rays resistant polycarbonate. Lamp holder can be mounted on a metal pillar at the angle of 90° with the possibility of angle adjustment of $\pm 10^\circ$, and also can be mounted on a lyre at the angle of 180° with possibility of angle adjustment of $\pm 10^\circ$. The surface protection of the lamp is done by electrostatic painting in color RAL7035.

Total output flux is 120-145lm/W. Light color is 3000, 4000 or 6500K.

The complete lamp is made in the IP 66 (optionally in IP 67) level of protection according to EN 60598 and

EN 60529 standards. The level of mechanical protection in the basic version is IK 08 according to EN 62262 and EN 60068 standards. If requested, we can produce lamps with higher performance tempered, 6-10mm thick glass with a degree of mechanical protection IK 09, or even IK 10. The lamp is certificated according to EN 13032 and EN 60598 standards.

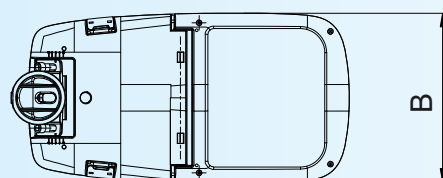
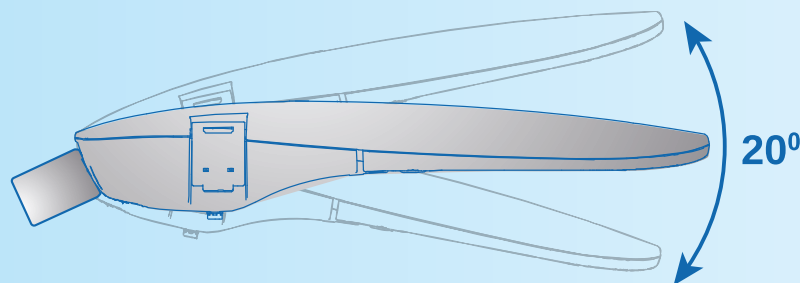
The power supply temperature is within the range of -40 to +70°C (ambient T_a) and power supply cables from -40 to + 80°C (T_c), with automatic switch-off if the maximum allowed temperature is reached until the lighting is switched on again. The power supply of the lamp is with input voltage range within 100-300VAC and it has the ability to adjust the output current with potentiometer. The lamp is very convenient for rural areas where there is a large oscillation of input voltages. The lamp has short-circuit protection, overcurrent and surge protection.

The work expectancy of the power supply is 77.500 hours at T_c - temperature of the enclosure of 73°C, while when it is $T_c < 70^\circ\text{C}$, it is greater than 88.000 hours which is equivalent to 20 years of the operation of lamp with around 4.000 working hours per year. The declared durability of the LED is about 100.000 hours until the fall of the light flux to 80%.

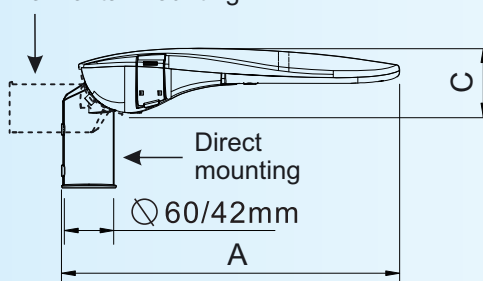
| Code no. | Lamp | A | B | C | Weight (kg) | Mount |
|----------|------------------------------|--------|--------|--------|-------------|---------|
| 3900555 | LED PERUN 2 - smart max 50w | 610 mm | 315 mm | 130 mm | 7,3 | ø 48-60 |
| 3900575 | LED PERUN 2 - smart max 70w | 610 mm | 315 mm | 130 mm | 7,3 | ø 48-60 |
| 3900597 | LED PERUN 2 - smart max 120w | 610 mm | 315 mm | 130 mm | 7,3 | ø 48-60 |

LED PERUN 3 (80-250W)

top design - quality



Horizontal mounting



It is used for illuminating streets, parks, squares, parking lots, factory circuits and all other places where good lighting is needed.

Lamp housing is made of aluminum alloy cast under pressure. LED protector is made of flat tempered glass, and lenses are made of high temperature and UV rays resistant polycarbonate. Lamp holder can be mounted on a metal pillar at the angle of 90° with the possibility of angle adjustment of $\pm 10^\circ$, and also can be mounted on a lyre at the angle of 180° with possibility of angle adjustment of $\pm 10^\circ$. The surface protection of the lamp is done by electrostatic painting in color RAL7035.

Total output flux is 120-145lm/W. Light color is 3000, 4000 or 6500K.

The complete lamp is made in the IP 66 (optionally in IP 67) level of protection according to EN 60598 and

EN 60529 standards. The level of mechanical protection in the basic version is IK 08 according to EN 62262 and EN 60068 standards. If requested, we can produce lamps with higher performance tempered, 6-10mm thick glass with a degree of mechanical protection IK 09, or even IK 10. The lamp is certificated according to EN 13032 and EN 60598 standards.

The power supply temperature is within the range of -40 to +70°C (ambient T_a) and power supply cables from -40 to +80°C (T_c), with automatic switch-off if the maximum allowed temperature is reached until the lighting is switched on again. The power supply of the lamp is with input voltage range within 100-300VAC and it has the ability to adjust the output current with potentiometer. The lamp is very convenient for rural areas where there is a large oscillation of input voltages. The lamp has short-circuit protection, overcurrent and surge protection.

The work expectancy of the power supply is 77.500 hours at T_c - temperature of the enclosure of 73°C, while when it is $T_c < 70^\circ\text{C}$, it is greater than 88.000 hours which is equivalent to 20 years of the operation of lamp with around 4.000 working hours per year. The declared durability of the LED is about 100.000 hours until the fall of the light flux to 80%.

| Code no. | Lamp | A | B | C | Weight (kg) | Mount |
|-----------|------------------------------|--------|--------|--------|-------------|---------|
| 3900597/2 | LED PERUN 3 - smart max 150w | 740 mm | 385 mm | 150 mm | 10,5 | ø 48-60 |
| 3900597/3 | LED PERUN 3 - smart max 200w | 740 mm | 385 mm | 150 mm | 10,5 | ø 48-60 |

REPLACE THE ASSEMBLY IN 30 SECONDS Feman



Photocell *

The lamp will automatically turn on or off depending on the brightness of the daylight



Built-in air valve

The air valve ensures the air balance inside and outside the lamp, thus allowing the air to be balanced inside and outside the lamp, allowing for longer lamp life



Automatski prekidač

Automatically turns off the power when opening the lamp for safe operation.



Automatic switch

Simple disassembly reduces maintenance costs

LED power supply (optional SMART LED power supply)

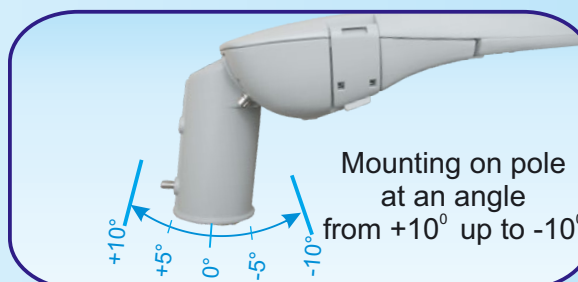
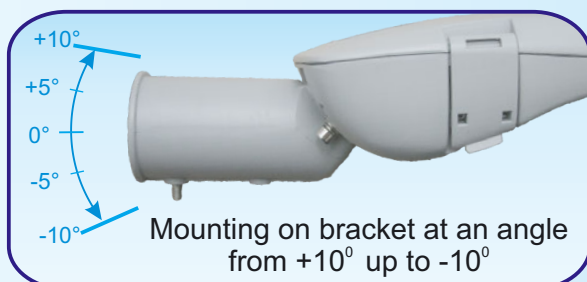
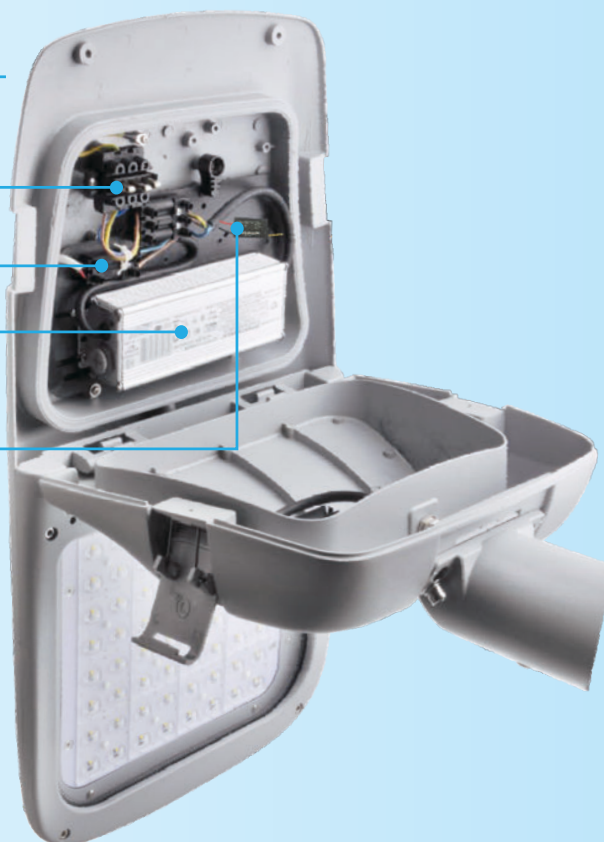
Variety of power supplies is available



SPD protection against lightning strikes *

Provides better reliability of the power supply, prolongs the life of the lamp.

* OPTIONAL



LED BALL

Ideal park light to illuminate park spaces between residential buildings, schools and other outdoor decorative spaces. The body of the lamp is made of die-cast aluminum and the protector is made of impact resistant polycarbonate and UV radiation.

Light color 3000K, 4000K, 6500K.

The maximum power of the lamp is 50w with the option of programming the power of the lamp in 5 different steps.

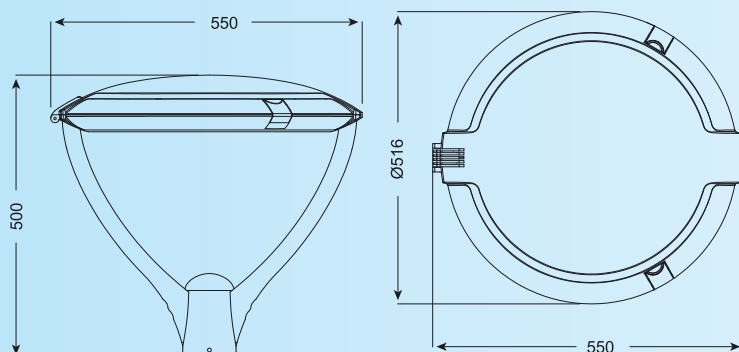
IP protection IP 66
IK resistance IK 08

Code no. 3900383



LED LADA SMART MAX. 64 W

NEW - for sidewalks, parks



| Code no. | Lamp | Weight (kg) | Installation |
|----------|----------------------|-------------|--------------|
| 3900515 | LADA - smart max 64w | 8,8 | Ø 60-76 |



The LED lamp is used for functional lighting of roads, parking lots, parks, factory circuits ...

Lamp housing is made of aluminum alloy cast under pressure. LED protector is made of flat tempered glass, and lenses are made of high temperature and UV rays resistant polycarbonate. Lamp holder can be mounted on a metal pillar at the angle of 90° with the possibility of angle adjustment of $\pm 10^\circ$, and also can be mounted on a lyre at the angle of 180° with possibility of angle adjustment of $\pm 10^\circ$. The surface protection of the lamp is done by electrostatic painting in color RAL7035.

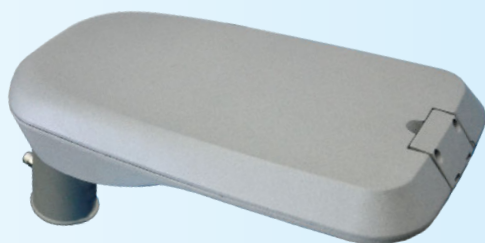
Total output flux is 120-145lm/W. Light color is 3000, 4000 or 6500K.

The complete lamp is made in the IP 66 (optionally in IP 67) level of protection according to EN 60598 and EN 60529 standards. The level of mechanical protection in the basic version is IK 08 according to EN 62262 and EN 60068 standards. If requested, we can produce lamps with higher performance tempered, 6-10mm thick glass with a degree of mechanical protection IK 09, or even IK 10. The lamp is certificated according to EN 13032 and EN 60598 standards.

The power supply temperature is within the range of -40 to +70°C (ambient T_a) and power supply cables from -40 to + 80°C (T_c), with automatic switch-off if the maximum allowed temperature is reached until the lighting is switched on again. The power supply of the lamp is with input voltage range within 100-300VAC and it has the ability to adjust the output current with potentiometer. The lamp is very convenient for rural areas where there is a large oscillation of input voltages. The lamp has short-circuit protection, overcurrent and surge protection.

The work expectancy of the power supply is 77.500 hours at T_c - temperature of the enclosure of 73°C, while when it is $T_c < 70^\circ\text{C}$, it is greater than 88.000 hours which is equivalent to 20 years of the operation of lamp with around 4.000 working hours per year. The declared durability of the LED is about 100.000 hours until the fall of the light flux to 80%. Expected percentage of cancellation is less than 10%.

STREET-PARK LED LAMP PERUN 1-A

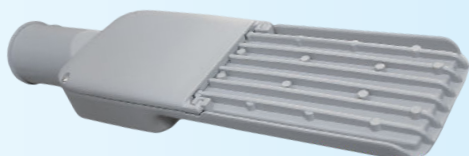


Small street light street lamps ideal as a replacement for obsolete lamps Hg 125W and Na 70 / 100W, illumination of parks, streets, factory circuits ... Light color 3000, 4000, 6500 K. The luminaire is also designed for horizontal and vertical mounting and has possibility of changing the angle $\pm 15^\circ$.

The price / quality ratio is most favorable in Europe.

| Code no. | Lamp | Power | Weight (kg) | Installation |
|----------|---------------|-------|-------------|--------------|
| 3900520 | LED PERUN 1-A | 20 W | 3,8 | Ø 48-60 |
| 3900525 | LED PERUN 1-A | 25 W | 3,8 | Ø 48-60 |
| 3900526 | LED PERUN 1-A | 30 W | 3,8 | Ø 48-60 |

STREET-PARK LED LAMP SIMPLE 2



Street parking LED small lights ideal for replacing obsolete Hg 125W and 70/100W lamps, lighting of parks, streets, factory circuits ... Light color 3000, 4000, 6500 K.

The price / quality ratio is most favorable in Europe.

| Code no. | Lamp | Power | Weight (kg) | Installation |
|----------|--------------|-------|-------------|--------------|
| 3900342 | LED Simple 2 | 20 W | 1,3 | Ø 48 |
| 3900344 | LED Simple 2 | 25 W | 1,3 | Ø 48 |

Feman



STEDOLED

LED CEILING LAMP

NEW!
ON MARKET

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NEWEST GENERATION OF SUPERIOR QUALITY LED LIGHTS

FOR YOUR
STAIRWAYS AND
ENTRANCES



WITH TOP QUALITY
MICROWAVE
MOTION SENSOR



SAVE ENERGY AND MONEY UP TO 95%

MICROVAWE MOTION SENSOR
FOR AUTOMATIC LIGHTING TURNING ON AN OFF
WITH LIFETIME OF MINIMUM 20 YEARS

LIFETIME
25000
HOURS

MOTION
SENSOR FOR
AUTOMATIC
LIGHTING
TURNING
ON AND OFF

ENERGY
SAVING
UP TO 95%



IDEAL SOLUTION FOR ILLUMINATING BUILDING ENTRANCES, STAIRWAYS,
HALLWAYS OF RESIDENTIAL AND BUSSINES BUILDINGS, ETC.

LED KRISTAL 1 - STREET LIGHTING (SAVE UP 75%)

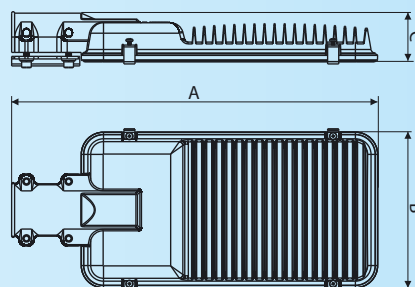
top quality lighting

**SUPERIOR
COOLING**



Specifications:

IP protectionIP 66 / 67
Mounting on pole 3-8m
Luminous flux 100-145 lm/W



| Lamp | A | B | C | Installation |
|---------------|-----|-----|----|--------------|
| LED KRISTAL 1 | 500 | 210 | 70 | ø48-60 |

| Code no. | Lamp | Max power W | Voltage V | Weight kg/pcs. |
|----------|---------------|----------------|--------------|-------------------|
| 3900352 | LED KRISTAL 1 | 34 | 220 | 2.800 |
| 3900355 | LED KRISTAL 1 | 55 | 220 | 2.850 |

LED lights are used to illuminate streets, parks, squares, factory circuits, as well as in all other places where good lighting is needed.

It consists of: enclosure made of aluminum cast aluminum under pressure, tempered glass protector, optical part made of polycarbonate resistant to high temperature and UV radiation. The luminaire is protected by electrostatic painting RAL 7035.

Smart versions have the ability to smoke in five different steps and find the virtual midnight. The LED lamp with the panel works on the principle of solar energy use.

The solar panel in combination with the LED lamp is a durable and cost-effective solution in many situations. An important advantage is the possibility of lighting of roads, parks, roads where there is no possibility of bringing electricity. Color of light 3000, 4000, 6500 K.

The power supply temperature is -40 to + 70°C (ambient Ta) or power supply casing from -40 to + 80°C (Tc), with automatic shutdown at excess temperature until lighting is switched on again (not before). Lamp power supply with an input range of 100-300VAC has the ability to program and later self-smoke (night light) during the night according to the selected program, finding virtual midnight and adjusting the length of the day and night. The lamp works perfectly in rural environments where there is a large oscillation of input voltages. Each lamp has short-circuit protection, over-current, SURGE immunity, line-to-line induction and depletion, line-lines.

The expected life expectancy of the power supply is 77,500 hours (at Tc-temperature of the enclosure 75°C, while it is below Tc <70 °C greater than 100 000 hours) or about 25 years with lamp operation around 4000 h per year. The declared durability of the LED is about 100,000 hours to a fall of the light flux to 80%. The expected percentage of cancellation is less than 10%.

ON CUSTOMER'S REQUEST, WE CAN PRODUCE IN OTHER COLORS.

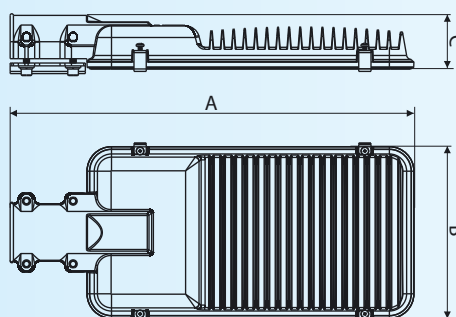
LED KRISTAL 2 SMART - STREET LIGHTING (SAVE UP TO 75%)

durability of LED diodes



Specifications:

IP protection IP 66 / 67
 IK resistance IK 08 / 09 /
 Mounting on pole 4-12m
 Svetlosni fluks..... 100-145 lm/W



| Lamp | A | B | C | Installation |
|-------------------------------|-----|-----|----|--------------|
| LED KRISTAL SMART 2 (50, 70W) | 535 | 260 | 71 | ø48-60 |
| LED KRISTAL SMART 2 (90W) | 600 | 260 | 67 | ø48-60 |

| Code no. | Lamp | Max power W | Voltage V | Weight kg/pcs. |
|----------|---------------------|----------------|--------------|-------------------|
| 3900359 | LED KRISTAL 2 SMART | 58 | 220 | 4.500 |
| 3900361 | LED KRISTAL 2 SMART | 78 | 220 | 4.500 |
| 3900365 | LED KRISTAL 2 SMART | 100 | 220 | 5.000 |

LED lights are used to illuminate streets, parks, squares, factory circuits, as well as in all other places where good lighting is needed.

It consists of: enclosure made of aluminum cast aluminum under pressure, tempered glass protector, optical part made of polycarbonate resistant to high temperature and UV radiation. The luminaire is protected by electrostatic painting RAL 7035.

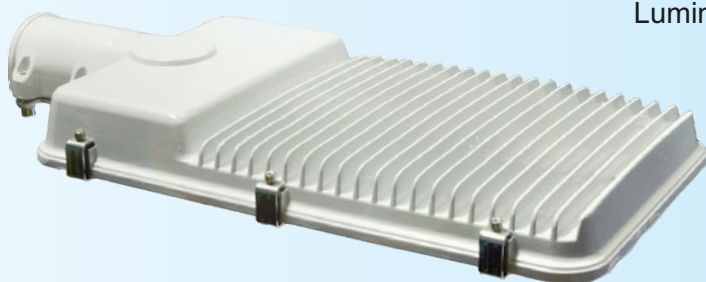
Smart versions have the ability to smoke in five different steps and find the virtual midnight. Color of light 3000, 4000, 6500 K.

The power supply temperature is -40 to + 70 ° C (ambient Ta) or power supply casing from -40 to + 80 ° C (Tc), with automatic shutdown at excess temperature until lighting is switched on again (not before). Lamp power supply with an input range of 100-300VAC has the ability to program and later self-smoke (night light) during the night according to the selected program, finding virtual midnight and adjusting the length of the day and night. The lamp works perfectly in rural environments where there is a large oscillation of input voltages. Each lamp has short-circuit protection, over-current, SURGE immunity, line-to-line induction and depletion, line-lines.

The declared life expectancy of the power supply is 77,500 hours (at Tc temperature of the enclosure 75 °C, while under Tc <70 °C it is more than 100 000 hours) or about 25 years with the operation of the lamp approximately 4000 h per year . The declared durability of the LED is about 100,000 hours to a fall of the light flux to 80%. The expected percentage of cancellation is less than 10%.

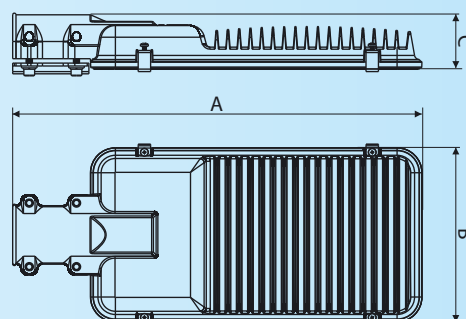
LED KRISTAL 3 SMART - STREET LIGHTING (SAVE UP TO 75%)

durability - superior cooling



Tehnički podaci:

IP protection IP 66 / 67
 IK resistance IK 08 / 09 / 10
 Mounting on pole 6-14m
 Luminous flux..... 100-145 lm/W



| Lamp | A | B | C | Installation |
|---------------|-----|-----|----|--------------|
| LED KRISTAL 3 | 640 | 303 | 67 | ø48-60 |

| Code no. | Lamp | Max power W | Voltage V | Weight kg/pcs |
|----------|---------------------|----------------|--------------|------------------|
| 3900373 | LED KRISTAL 3 SMART | 134 | 220 | 7.6 |
| 3900375 | LED KRISTAL 3 SMART | 168 | 220 | 7.7 |

LED lights are used to illuminate streets, parks, squares, factory circuits, as well as in all other places where good lighting is needed.

It consists of: enclosure made of aluminum cast aluminum under pressure, tempered glass protector, optical part made of polycarbonate resistant to high temperature and UV radiation. The luminaire is protected by electrostatic painting RAL 7035.

Smart versions have the ability to smoke in five different steps and find the virtual midnight. Color of light 3000, 4000, 6500 K.

The power supply temperature is in the range of -40 to + 70 ° C (ambient Ta) or the power supply casing from -40 to + 80 ° C (Tc), with automatic shutdown at excess temperature until lighting is switched on again (not before). Lamp power supply with an input range of 100-300VAC has the ability to program and later self-smoke (night light) during the night according to the selected program, finding virtual midnight and adjusting the length of the day and night. The lamp works perfectly in rural environments where there is a large oscillation of input voltages. Each lamp has short-circuit protection, over-current, SURGE immunity, line-to-line induction and depletion, line-lines.

The declared life expectancy of the power supply is 77,500 hours (at Tc temperature of the enclosure 75 °C, while under Tc <70 °C it is more than 100 000 hours) or about 25 years with the operation of the lamp approximately 4000 h per year. The declared durability of the LED is about 100,000 hours to a fall of the light flux to 80%. Expected percentage of cancellation is less than 10%.

ON CUSTOMER'S REQUEST, WE CAN PRODUCE IN OTHER COLORS.

LED SIMPLE

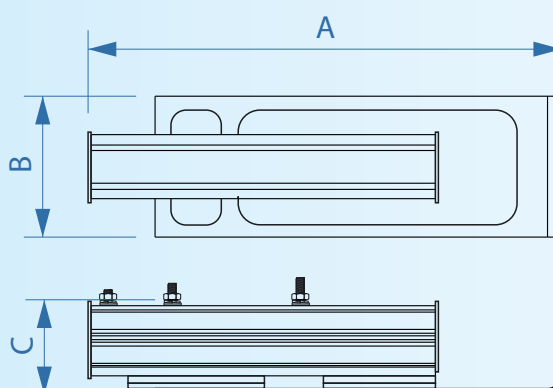
durability - superior cooling

**BEST
PRICE**



Technical data:

IP protection IP 65
IK resistance..... IK 8
Mounting on pole..... 5-10 m
Luminous flux 110-150 lm/W



| Lamp | A | B | C | Installation |
|------------|-----|-----|----|--------------|
| LED SIMPLE | 370 | 135 | 90 | ø48-60 |

| Code no. | Lamp | Max power W | Voltage V |
|----------|------------|----------------|--------------|
| 3900341 | LED SIMPLE | 18 | 220 |
| 3900343 | LED SIMPLE | 27 | 220 |

LED lights are used to illuminate streets, parks, squares, factory circuits, as well as in all other places where good lighting is needed.

It consists of: an aluminum alloy case, the optical part is made of polycarbonate resistant to high temperature and UV radiation. The luminaire is protected by electrostatic painting RAL 7035.

Smart versions have the ability to smoke in five different steps and find the virtual midnight. The LED lamp with the panel works on the principle of solar energy use.

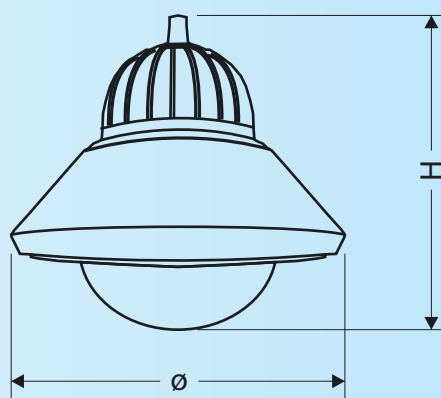
The solar panel in combination with the LED lamp is a durable and cost-effective solution in many situations. An important advantage is the possibility of lighting of roads, parks, roads where there is no possibility of bringing electricity. Color of light 3000, 4000, 6500 K.

The power supply temperature is in the range of -40 to + 70 ° C (ambient Ta) or the power supply casing from -40 to + 80 ° C (Tc), with automatic shutdown at excess temperature until lighting is switched on again (not before). Lamp power supply with an input range of 100-300VAC has the ability to program and later self-smoke (night light) during the night according to the selected program, finding virtual midnight and adjusting the length of the day and night. The lamp works perfectly in rural environments where there is a large oscillation of input voltages. Each lamp has short-circuit protection, over-current, SURGE immunity, line-to-line induction and depletion, line-lines.

The expected life expectancy of the power supply is 77,500 hours (at Tc-temperature of the enclosure 75 °C, while it is below Tc <70 °C greater than 100 000 hours) or about 25 years with lamp operation around 4000 h per year. The declared durability of the LED is about 100,000 hours to a fall of the light flux to 80%. Expected percentage of cancellation is less than 10%.

LED BELL**for sidewalks, parks****Technical data:**

IP protection..... IP 65 / 66 / 67
 IK resistance..... IK 08 / 09 / 10
 Mounting on pole (wire)..... 5-10 m
 Luminous flux 110-130 lm/W



| Lamp | H | Ø | Installation |
|-----------|-----|-----|--------------|
| LED ZVONO | 470 | 450 | Ø30 |

| Code no. | Lamp | Max power W | Voltage V |
|----------|-----------|----------------|--------------|
| 3900363 | LED ZVONO | 26 | 220 |

"LED Bell" lamps are used to illuminate parks, squares, factory circuits, as well as in all other places where good lighting is needed.

It consists of: enclosure made of cast aluminum die-cast aluminum, polycarbonate protectors, diode bulbs and two-layer silicone gasket. The luminaire is protected by electrostatic painting. Color of light 3000, 4000, 6500 K.

The power supply temperature is in the range of -40 to + 70 ° C (ambient Ta) or the power supply casing from -40 to + 80 ° C (Tc), with automatic shutdown at excess temperature until lighting is switched on again (not before). Lamp power supply with an input range of 100-300VAC has the ability to program and later self-smoke (night light) during the night according to the selected program, finding virtual midnight and adjusting the length of the day and night. The lamp works perfectly in rural environments where there is a large oscillation of input voltages. Each lamp has short-circuit protection, over-current, SURGE immunity, line-to-line induction and depletion, line-lines.

The declared life expectancy is 77,500 hours (at Tc-temperature of the enclosure 75 °C, while under Tc <70 °C is greater than 100,000 hours) or about 25 years with the operation of the lamp around 4000 h per year. The declared durability of the LED is about 100,000 hours to a fall of the light flux to 80%. Expected percentage of cancellation is less than 10%.

LED URBANA 1 (50% SAVINGS)

for parks



Specifications:

IP protection IP 65 / 66 / 67
 IK resistance..... IK 08 / 09 / 10
 Mounting on pole 3-8m
 Dimensions
 710x440mm

| Code no. | Power max W | Voltage V |
|----------|----------------|--------------|
| 3900386 | 60 | 220 |

Urban lighting is used for illumination of parks, squares, promenades, factory circuits and in all places where good lighting is needed.
 Basic color of 4000K brightness, which is variable - at the request of the customer.

Advantages:

It consists of: enclosure made of aluminum alloy pressurized, aluminum mirror, polycarbonate protectors, silicone seal. All external elements are made of stainless steel.
 Replacing the bulb is very easy by unscrewing the two screws on the lid cover and providing simple and easy access to the bulb.

Assembly:

The lamp is mounted vertically to the Ø 60- 76 pivot. It is fastened with four screw bolts.

LED - KRISTAL 4 (SAVE UP TO 75%)

for your halls

**SUPERIOR
COOLING**



Specifications

IP protection IP 65 / 66 / 67
IK resistance IK 7/8
Mounting on ceiling 6-14m
Luminous flux 100-140 lm/W

**HIGH EFFICIENT
LIGHTING**



| Lamp | A | B | C |
|---------------|-----|-----|----|
| LED KRISTAL 4 | 605 | 270 | 94 |

| Code no. | Lamp | Max power W | Voltage V | Weight kg/pcs |
|----------|---------------|----------------|--------------|------------------|
| 3900378 | LED KRISTAL 4 | 112 | 220 | 3,44 |
| 3900379 | LED KRISTAL 4 | 165 | 220 | 3,44 |

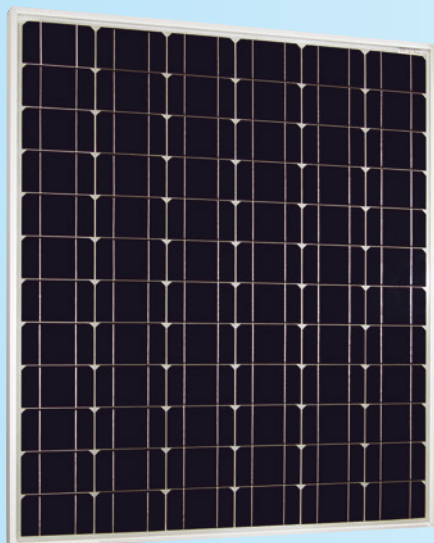
LED KRISTAL 4 lamps are used to illuminate industrial halls, warehouses, workshops, sports halls of supermarkets and all indoor facilities that require good lighting.

It consists of a casing made of cast aluminum, pressurized high-gloss aluminum gloss, diode luminaires with diode lens. The lamp is painted with electrostatic process RAL 7035. The basic color of light is 4000 K which is variable - at the request of the customer.

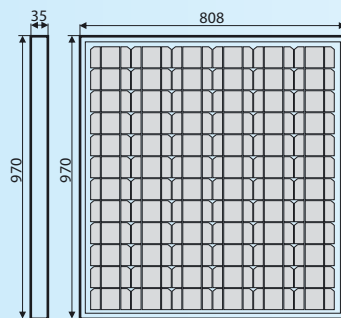
The lighting angle of the lamp is 120 °.

ON CUSTOMER'S REQUEST, WE CAN PRODUCE IN OTHER COLORS.

STREET LIGHT WITH SOLAR PANEL (SAVE UP TO 100%)



LIGHTING WITHOUT A
DISTRIBUTION NETWORK



The advantages of LED lights to the panel are:

- **free electricity,**
- **no digging and laying cables,**
- **easy installation**

Specifications:

Maximum power 100 W
Voltage 12/24/48 V
Dimensions 970x808x35 mm

The lighting system using solar energy consists of:

Lamp power supply using solar energy consists of: LED lamps, housing made of a aluminum alloy casted under pressure, a protector of toughened glass, aluminum mirror, diode bulbs, and three-layer silicon gaskets. Solar panel, which consists of photo voltage cells that convert sun energy into electricity. Battery that accumulates electricity during the day so can during night, feed Led lamp. Controller that has the function of the monitoring the battery.

In addition to 100% energy saving one of the significant advantages is the working life of diode is greater than 50,000 working hours, which is 5 to 10 times more than sodium and mercury lamps. LED diode have high efficiency, unlike other sources of light whose intensity drop during operation and up to 50% sodium lamps after 30,000 hours, while the LED's intensity drops 30% after 70,000 working hours.

STREET LED LIGHTS WITH REMOTE CONTROL

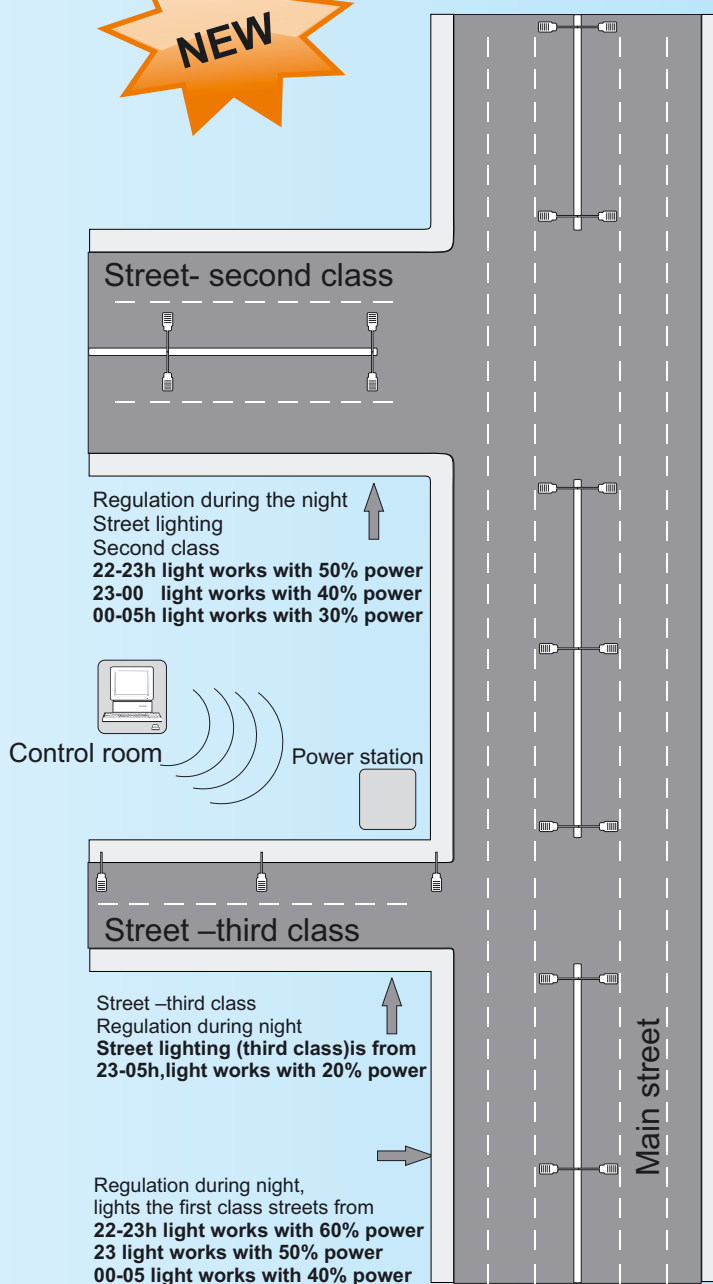
NEW

Remote control system has great advantages in saving electricity in the period of reduced traffic and pedestrians when there is no need to operate lamps with 100% power. At night time when traffic decreases and pedestrian traffic is reduced, we can regulate lights and systematically reduce the intensity of work ranging from 1-100% depending on the road importance and period of time.

With this system we are able to remotely control any lamp and regulate its work and therefore have an insight into its functionality and the need for intervention. This way we reduce the costs control visits.

The system works as follows. Signal is sent from the command center via the GPRS signal to the power station, and then the signal is sent to the existing network (220V) to the light.

Remote control has significant advantages in the application of LED lighting which is powered with solar panels. This way we can get big savings and the ability to gain energy in batteries. This provides reliable and safe LED lamps power supply.



**SAVINGS - FIRST
CLASS STREET
MAX 60% POWER**

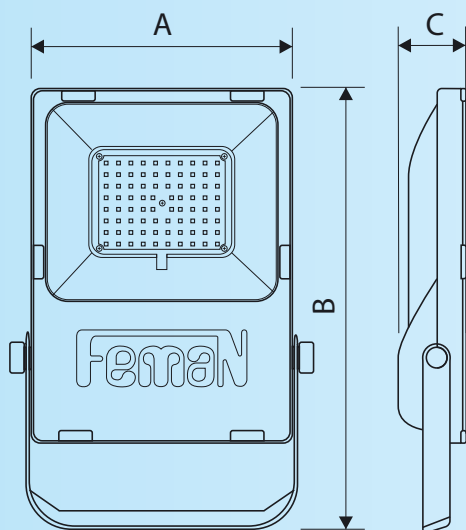
**SAVINGS - SECOND
CLASS STREET
MAX 70% POWER**

**SAVINGS - THIRD
CLASS STREET
MAX 80% POWER**

FRL - LED SPOTLIGHTS (30W, 50W i 80W)

FRL 30

FRL 50

FRL 80


The reflector housing is made of aluminum alloy pressurized.

Finishing processing conversion coating that allows better resistance to atmospheric conditions and corrosion.

The reflector mount is made of steel sheet for mounting on horizontal and vertical surfaces with adjusting angle of inclination.

The steel reflector carrier is in the color of the case.

The reflector protector is made of tempered glass. The protector is opened using a stainless steel buckle.

The source consists of ice chips, the color of light is 3000, 4000, 6500 K.

IP protection: IP 65/66/67

IK Resistance: IK 08/09/10

Connection voltage 220-240VAC 50-60Hz.

Insulation class I-II. It is suitable for illumination of sports grounds, decorative facades, parks, parkings ...

| Code no. | Lamp | Max power W | Light flux lm/W | Dimensions | | | Voltage V | Weight kg/pcs. |
|----------|--------|----------------|--------------------|------------|-----|----|--------------|-------------------|
| | | | | A | B | C | | |
| 3900242 | FRL 30 | 30 | 120-140 | 190 | 230 | 40 | 12/24/220 | 1,1 |
| 3900243 | FRL 50 | 50 | 120-140 | 255 | 323 | 50 | 220 | 2,43 |
| 3900244 | FRL 80 | 80 | 120-140 | 280 | 370 | 55 | 220 | 3,12 |

FRL - LED SPOTLIGHTS (100w, 150W i 200W)



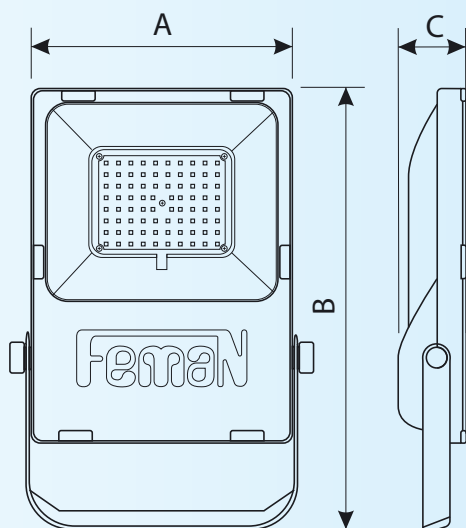
FRL 100



FRL 150



FRL 200



The reflector housing is made of aluminum alloy pressurized.

Finishing processing conversion coating that allows better resistance to atmospheric conditions and corrosion.

The reflector mount is made of steel sheet for mounting on horizontal and vertical surfaces with adjusting angle of inclination.

The steel reflector carrier is in the color of the case.

The reflector protector is made of tempered glass. The protector is opened using a stainless steel buckle.

The source consists of ice chips, the color of light is 3000, 4000, 6500 K.

IP protection: IP 65/66/67

IK Resistance: IK 08/09/10

Connection voltage 220-240VAC 50-60Hz.

Insulation class I-II. It is suitable for illumination of sports grounds, decorative facades, parks, parkings ...

| Code no. | Lamp | Max power W | Light flux lm/W | Dimensions | | | Voltage V | Weight kg/pcs. |
|----------|---------|----------------|--------------------|------------|-----|----|--------------|-------------------|
| | | | | A | B | C | | |
| 3900245 | FRL 100 | 100 | 120-140 | 330 | 410 | 60 | 220 | 3,8 |
| 3900246 | FRL 150 | 150 | 120-140 | 380 | 450 | 60 | 220 | 5,24 |
| 3900241 | FRL 200 | 200 | 120-140 | 410 | 490 | 60 | 220 | 6 |

EURO KRISTAL 1 - STREET LIGHT

**10 YEARS GUARANTEED
SAME EFFECT OF LIGHTING**

With a Serbian lamp made after European standards for a brighter future.



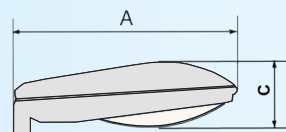
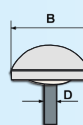
Purpose:

It is used to illuminate streets, parks, squares, factory circles, as well as in all other places where good lighting is needed.

It consists of: enclosure made of cast aluminum die-cast aluminum, tempered glass protector, aluminum high-gloss aluminum mirror, staggered bulbhead, removable plates of pre-fitting device, silicone seal, horizontal-vertical mounting bracket \varnothing 48mm.

Advantages:

- Degree of protection of complete lamp IP 66
- Degree of protection for work with IP 65
- Resistance to impact IK 09
- Protective shock-proof, shock-resistant, and the possibility of a drop in the barrier and a color change after a few years
- The aluminum die-cast housing makes this lamp light and light
- Exceptional and variable photometric properties
- Mechanical reliability
- The possibility of an unpleasant blindness of car drivers moving on the street with a lit Euro kristal luminaire
- Aero-dynamic shape of Euro kristal luminaire, amortizes wind blows

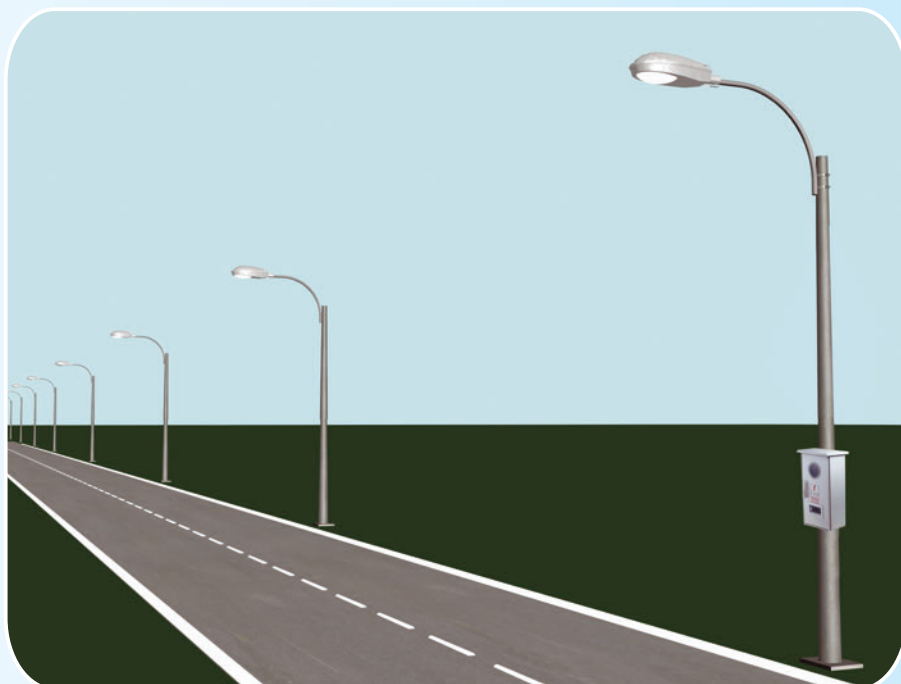


| LAMP | A | B | C | D | LIGHT HOLDER |
|----------------|-----|-----|-----|----|--------------|
| EURO KRISTAL 1 | 639 | 269 | 170 | 48 | E27-E40 |

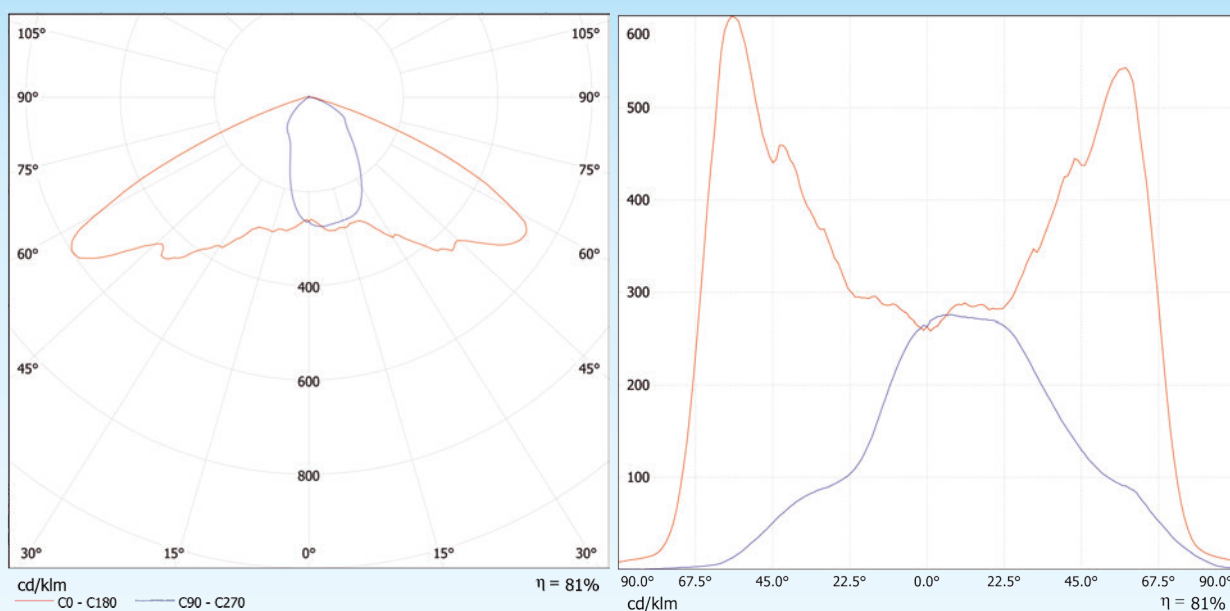


| Code no. | Lamp | Type | Power W | Weight kg/pc |
|----------|----------------|---------------|---------|--------------|
| 3900250 | EURO KRISTAL 1 | Sodium | 70 | 5,10 |
| 3900251 | EURO KRISTAL 1 | Sodium | 100 | 5,40 |
| 3900252 | EURO KRISTAL 1 | Sodium | 150 | 6,10 |
| 3900256 | EURO KRISTAL 1 | Mercury | 125 | 5,20 |
| 3900257 | EURO KRISTAL 1 | Metal-halogen | 70 | 5,10 |
| 3900258 | EURO KRISTAL 1 | Metal-halogen | 100 | 5,40 |
| 3900259 | EURO KRISTAL 1 | Metal-halogen | 150 | 6,10 |

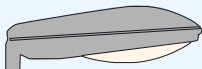

















Best for street lighting
prone to fog



Lamps:

| Euro kristal 1 | High pressure sodium | | | Mercury | Metal - Halogen | | |
|---|--|--|--|---|--|--|--|
| | 70w | 100w | 150w | 125w | 70w | 100w | 150w |
|  |   |   |   |  |   |   |   |

EURO KRISTAL 2 - STREET LIGHT

With a Serbian lamp made after European standards for a brighter future.



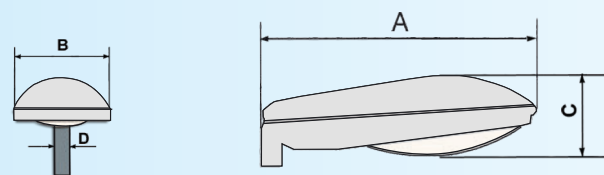
Namena:

It is used to illuminate streets, parks, squares, factory circles, as well as in all other places where good lighting is needed.

It consists of: enclosure made of aluminum alloy pressurized, tempered glass protrusion, aluminum high-gloss aluminum mirror, stinging bulbhead, removable plates of the pre-fitting device, silicone gasket, horizontal-vertical light fixture (ø48-60mm).

Advantages:

- Degree of protection of complete lamp IP 66
- Degree of protection for work with IP 65
- Resistance to impact IK 09
- Protective shock-proof, shock-resistant, and the possibility of a drop in the barrier and a color change after a few years
- The aluminum die-cast housing makes this lamp light and light
- Exceptional and variable photometric properties
- Mechanical reliability
- The possibility of an unpleasant blindness of car drivers moving on the street with a lit Euro kristal luminaire
- Aero-dynamic shape of Euro kristal luminaire, amortizes wind blows



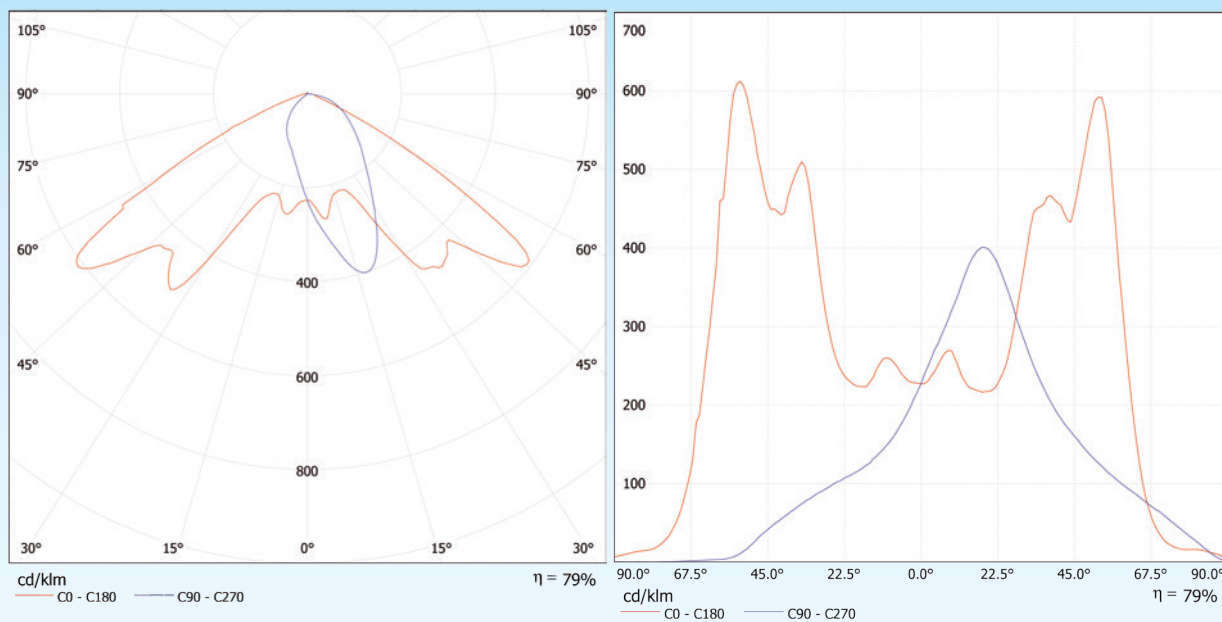
| LAMP | A | B | C | D | LAMPHOLDER |
|----------------|-----|-----|-----|----|------------|
| EURO KRISTAL 2 | 764 | 302 | 189 | 60 | E27- E40 |

| Code no. | LAMP | Type | Power W | Weight kg/pc |
|----------|----------------|---------------|---------|--------------|
| 3900260 | EURO KRISTAL 2 | Sodium | 150 | 8,00 |
| 3900261 | EURO KRISTAL 2 | Sodium | 250 | 8,50 |
| 3900265 | EURO KRISTAL 2 | Mercury | 125 | 7,10 |
| 3900266 | EURO KRISTAL 2 | Mercury | 250 | 7,60 |
| 3900267 | EURO KRISTAL 2 | Metal-halogen | 150 | 8,00 |
| 3900268 | EURO KRISTAL 2 | Metal-halogen | 250 | 8,50 |

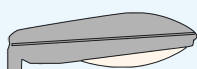














Best for lighting
streets prone to fog



Lamps:

| Euro kristal 2 | High pressure sodium | | Mercury | | Metal - Halogen | |
|---|--|--|--|--|--|------|
|  | 150w | 250w | 125w | 250w | 150w | 250w |
| |   |   |   |   |   | |

EURO KRISTAL 3 - STREET LIGHT

With a Serbian lamp made after European standards for a brighter future.



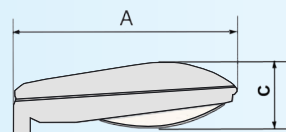
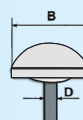
Namena:

It is used to illuminate streets, parks, squares, factory circles, as well as in all other places where good lighting is needed.

It consists of: enclosure made of aluminum alloy pressurized, tempered glass protrusion, aluminum high-gloss aluminum mirror, stinging bulbhead, removable plates of the pre-fitting device, silicone gasket, horizontal-vertical light fixture (ø48-60mm).

Advantages:

- Degree of protection of complete lamp IP 66
- Degree of protection for work with IP 65
- Resistance to shock IK09
- Protective shock-proof, shock-resistant, and the possibility of a drop in the barrier and a color change after a few years
- The aluminum die-cast housing makes this lamp light and light
- Exceptional and variable photometric properties
- Mechanical reliability
- The possibility of an unpleasant blindness of car drivers moving on the street with a lit Euro kristal luminaire
- Aero-dynamic shape of Euro kristal luminaire, amortizes wind blows



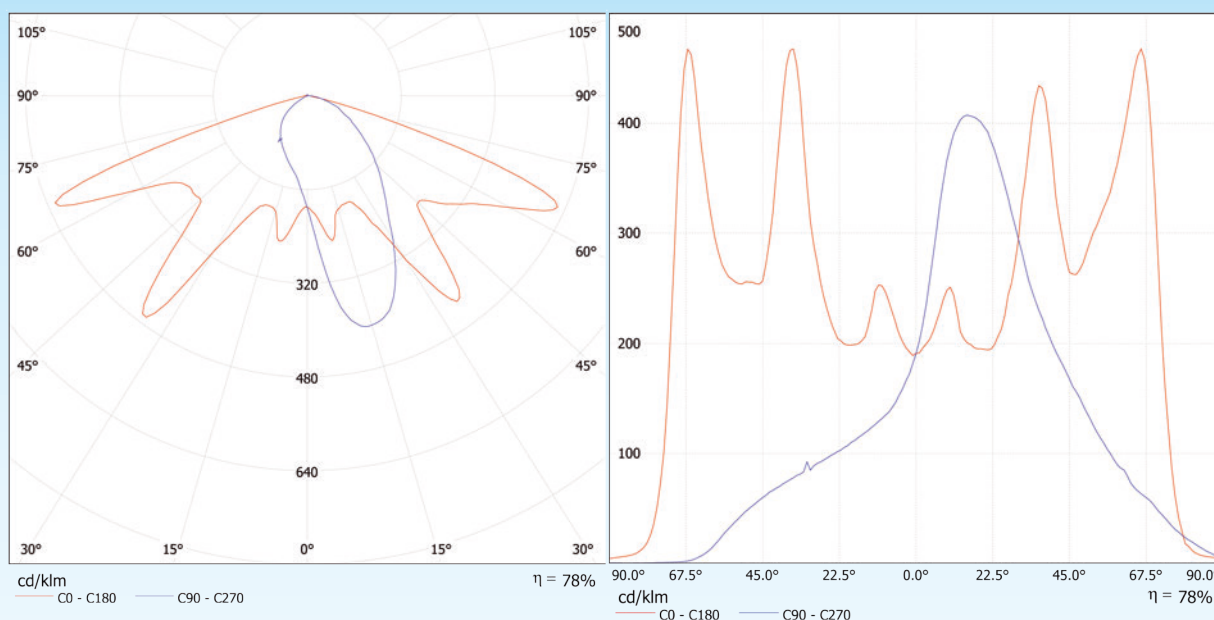
| LAMP | A | B | C | D | LAMPHOLDER |
|----------------|-----|-----|-----|----|------------|
| EURO KRISTAL 3 | 880 | 354 | 260 | 60 | E40 |

| Code no. | Lamp | Type | Power W | Weight kg/pc |
|----------|----------------|---------------|---------|--------------|
| 3900279 | EURO KRISTAL 3 | Sodium | 250 | 12,50 |
| 3900280 | EURO KRISTAL 3 | Sodium | 400 | 13,50 |
| 3900282 | EURO KRISTAL 3 | Mercury | 250 | 12,00 |
| 3900283 | EURO KRISTAL 3 | Mercury | 400 | 13,00 |
| 3900285 | EURO KRISTAL 3 | Metal-halogen | 250 | 12,50 |
| 3900286 | EURO KRISTAL 3 | Metal-halogen | 400 | 13,50 |

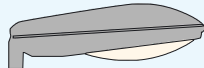














Best for
lighting highways



Lamps:

| Euro kristal 3 | High pressure sodium | | Mercury | | Metal-Halogen | |
|---|---|---|---|---|---|---|
| | 250w | 400w | 250w | 400w | 250w | 400w |
|  |  |  |  |  |  |  |
| |  |  | | |  |  |

We produce standard lighting in light and dark shades, and, on customers request, we can make the in other colors



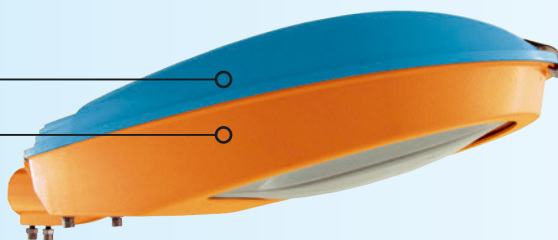
RAL 7035



RAL 5015

RAL 5012

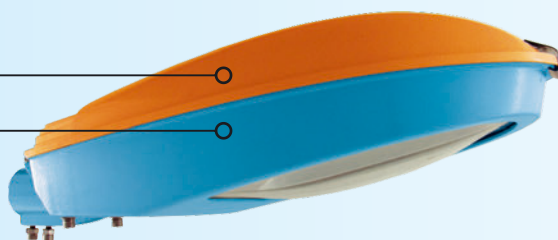
RAL 1037



RAL 6018

RAL 1037

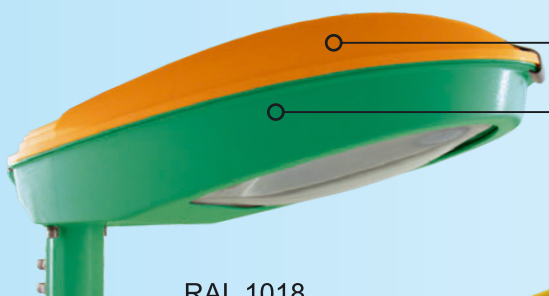
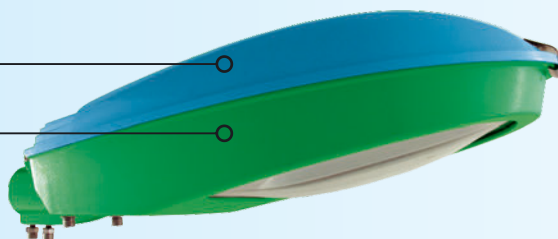
RAL 5012



RAL 1032

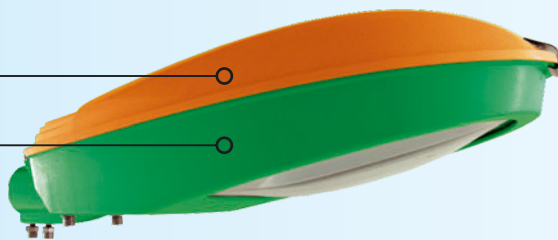
RAL 5012

RAL 6024



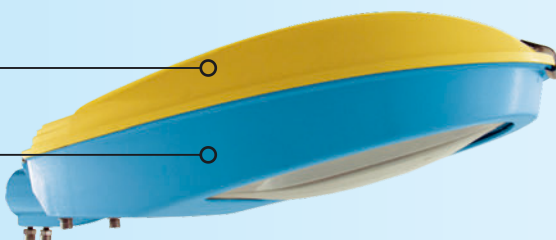
RAL 1037

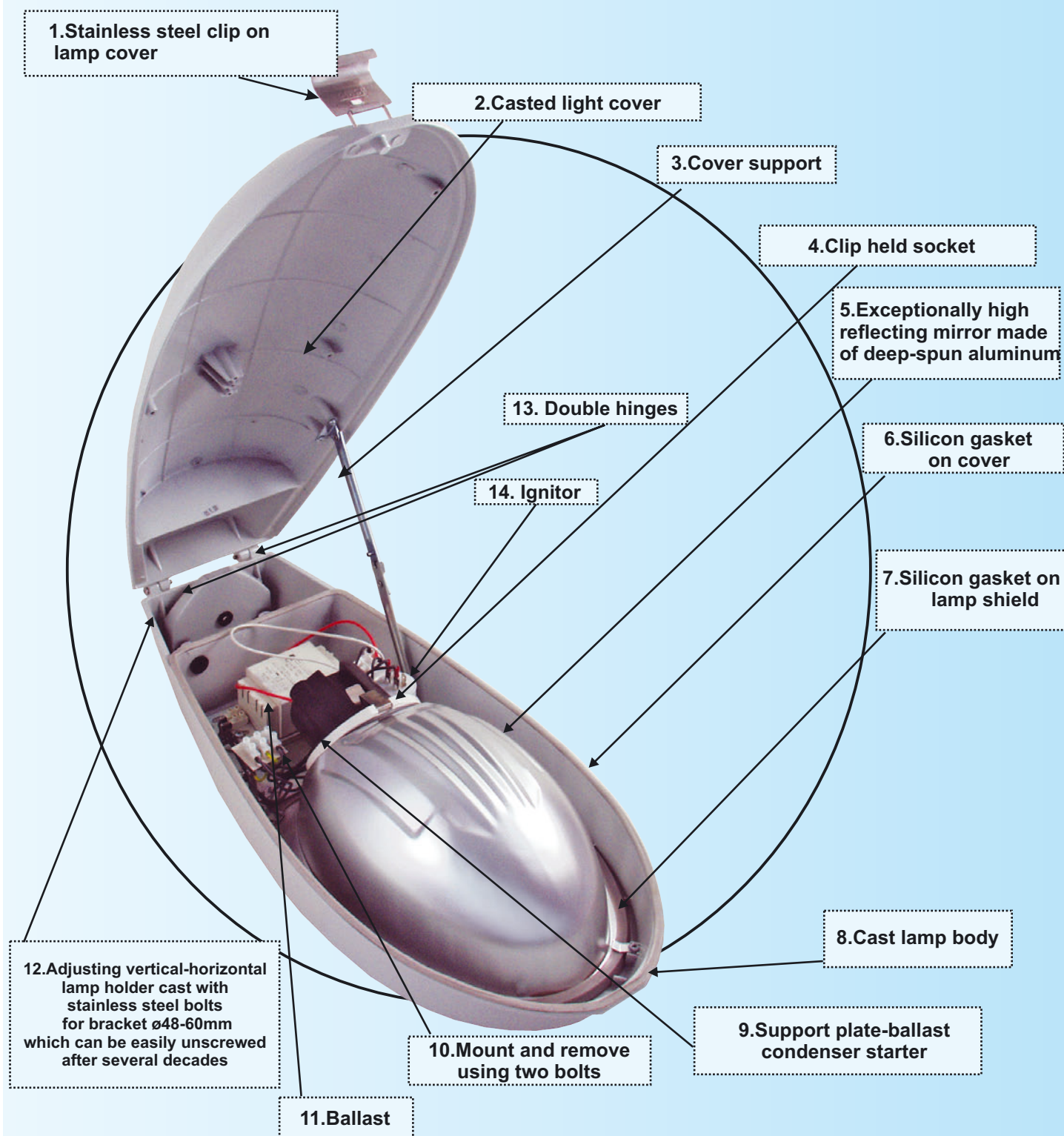
RAL 6024



RAL 1018

RAL 5024





Easy and simple maintenance

1.



After releasing the stainless steel clip (without using a wrench) the lid is lifted to its self-locking extent

2.



Installing and removal of luminary parts is done from the upper side according to safety standards

3.



All elements are accessible to the installer and are very easy to remove

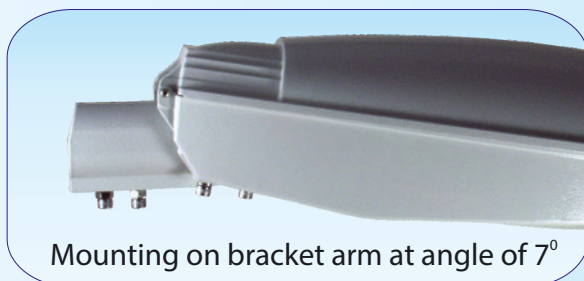
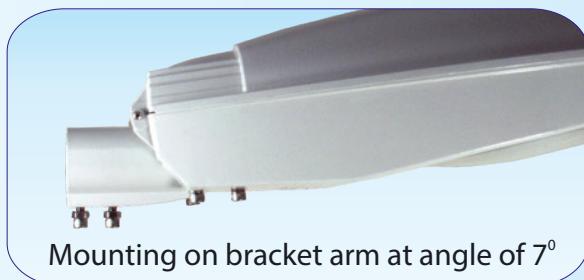
4.



Protection degree of IP 66 is secured by the use of a double gasket, which guarantees long-lasting cleanliness of the reflector and the lens cover

Mounting

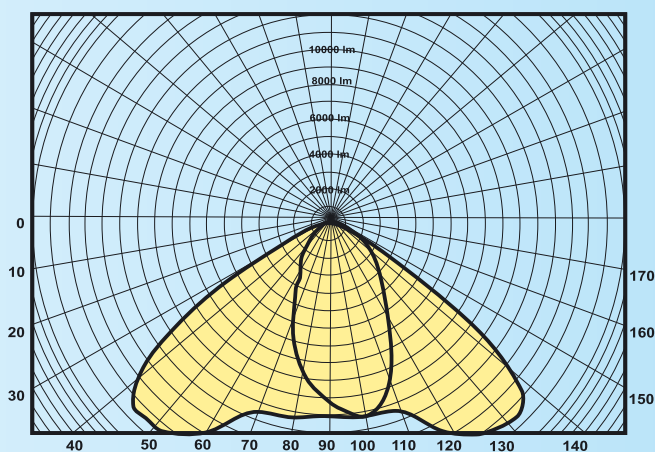
- Possible to install on a bracket arm as well as on a metal post.



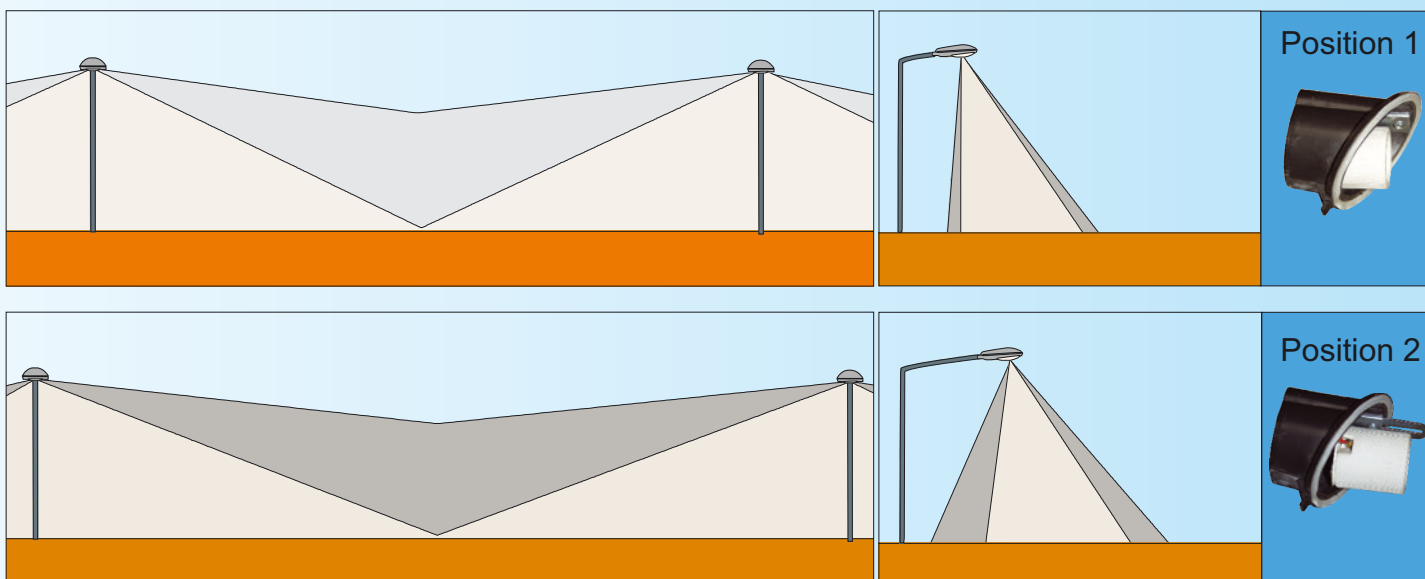
Note: Standard delivery of the lamp support for EURO Kristal 1 is at an angle of 7°
Standard delivery of the lamp support for EURO Kristal 2 and 3 is at an angle of 0°

Photometric adaptability

A large selection of lamp positions permits photometric adaptability depending on the desired lighting arrangement (Position 1 & 2). Using EURO KRISTAL lights prevents the possibility of unpleasant light flashes while driving, and a wider photometric arrangement is achieved which permits a more economic interval between poles. This arrangement system allows lighting to be adapted to the requirements of the situation (road width, mounting height, etc.).



EURO KRISTAL 2, Sodium 250 W



EURO KRISTAL 11 - STREET LIGHT

10 YEARS GUARANTEED
SAME EFFECT OF LIGHTING



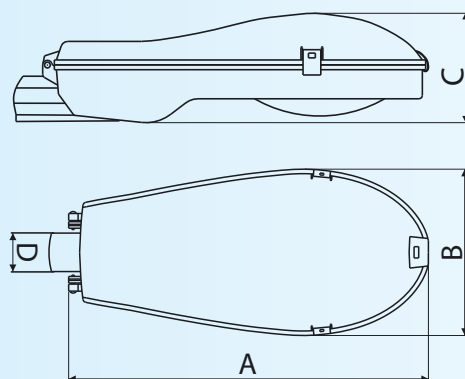
Advantages:

- Protection degree of complete light IP 66
- Protector from mechanically reinforced tempered glass, resistant to impact, excluded possibility of protector weakness and color change after a few years
- Housing made of die casted aluminum under pressure which makes this lamp light and firm
- The lamp is painted with electro-static paints in RAL 7035
- Outstanding features and variable photometric properties
- Mechanical reliability
- Excluded possibility of unpleasant blinding of the vehicle driver, driving on the street equipped with Euro Kristal light
- Aero-dynamic shape of Euro Kristal lights absorbs the wind blows.

Purpose:

Used to illuminate streets, parks, squares, factory grounds and all other places where lighting is needed.

Consists of: housing of die casted aluminium under pressure, protector made of tempered glass, aluminium mirror with high brightness, replaceable plates for pre-connection device, silicone seal, horizontal-vertical lamp support $\varnothing 48\text{mm}$.



| Lamp | A | B | C | D | Lampholder |
|-----------------|-----|-----|-----|----|------------|
| EURO KRISTAL 11 | 570 | 260 | 160 | 48 | E27-E40 |

| Code no. | Lamp | Type | Power W | Weight kg/pcs |
|----------|-----------------|---------------|---------|---------------|
| 3900173 | EURO KRISTAL 11 | Sodium | 70 | 5,10 |
| 3900174 | EURO KRISTAL 11 | Sodium | 100 | 5,40 |
| 3900175 | EURO KRISTAL 11 | Sodium | 150 | 6,10 |
| 3900176 | EURO KRISTAL 11 | Metal-halogen | 70 | 5,10 |
| 3900177 | EURO KRISTAL 11 | Metal-halogen | 100 | 5,40 |
| 3900178 | EURO KRISTAL 11 | Metal-halogen | 150 | 6,10 |
| 3900183 | EURO KRISTAL 11 | Mercury | 125 | 5,20 |

EURO KRISTAL 22 - STREET LIGHT



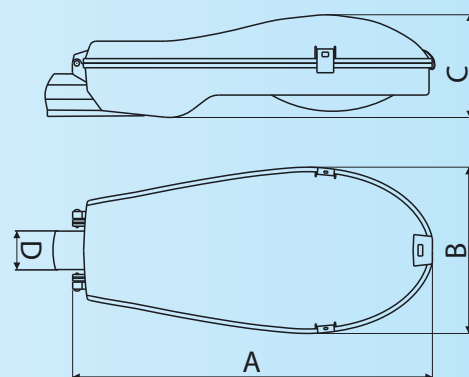
Advantages:

- Protection degree of complete light IP 66
- Protector from mechanically reinforced tempered glass, resistant to impact, excluded possibility of protector weakness and color change after a few years
- Housing made of die casted aluminum under pressure which makes this lamp light and firm
- The lamp is painted with electro-static paints in RAL 7035
- Outstanding features and variable photometric properties
- Mechanical reliability
- Excluded possibility of unpleasant blinding of the vehicle driver, driving on the street equipped with Euro Kristal light
- Aero-dynamic shape of Euro Kristal lights absorbs the wind blows.

Purpose:

Used to illuminate streets, parks, squares, factory grounds and all other places where lighting is needed.

Consists of: housing of die casted aluminium under pressure, protector made of tempered glass, aluminium reflector with high brightness, replaceable plates for pre-connection device, silicone seal, horizontal-vertical lamp support $\varnothing 48\text{mm}$.

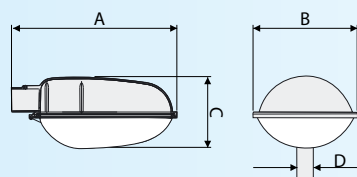


| LAMP | A | B | C | D | Lampholder |
|-----------------|-----|-----|-----|----|------------|
| EURO KRISTAL 22 | 680 | 295 | 230 | 60 | E27-E40 |

| Code no. | Lamp | Type | Power W | Weight kg/pcs. |
|----------|-----------------|---------------|---------|----------------|
| 3900184 | EURO KRISTAL 22 | Sodium | 150 | 8,00 |
| 3900185 | EURO KRISTAL 22 | Sodium | 250 | 8,50 |
| 3900188 | EURO KRISTAL 22 | Metal-halogen | 150 | 8,00 |
| 3900189 | EURO KRISTAL 22 | Metal-halogen | 250 | 8,50 |
| 3900186 | EURO KRISTAL 22 | Mercury | 125 | 7,10 |
| 3900187 | EURO KRISTAL 22 | Mercury | 250 | 7,60 |

ON CUSTOMER'S REQUEST, WE CAN PRODUCE IN OTHER COLORS.

FOPAL 1 - STREET LIGHT



| Lamp | A | B | C | D | Lampholder |
|---------|-----|-----|-----|----|------------|
| FOPAL 1 | 470 | 260 | 210 | 60 | E27-E40 |

Fopal 1 luminaire is used to illuminate streets, parks, squares, factory circuits, as well as in all other places where good lighting is needed.

It consists of: housings made of aluminum alloy pressurized, aluminum mirror, polycarbonate protectors, silicone rubber gasket.

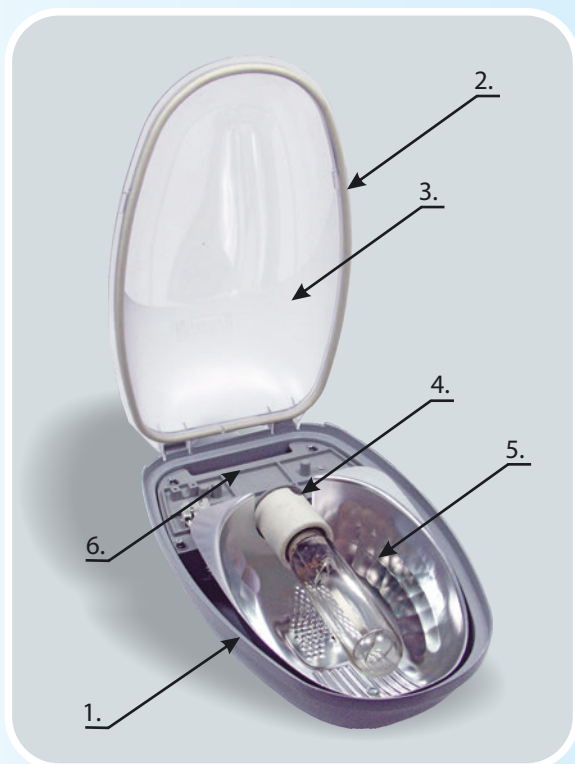
All connecting elements are made of stainless material. The lamp is painted with electrostatic painting RAL 7035.

Assembly:

The luminaire is mounted horizontally on the $\varnothing 48$ and $\varnothing 60$ louvers or vertically on the pillar using an additional bracket. It fastens easily with two screws. The advantage of the luminaire is light handling during operation, it is not necessary to use the tools when replacing the bulb.

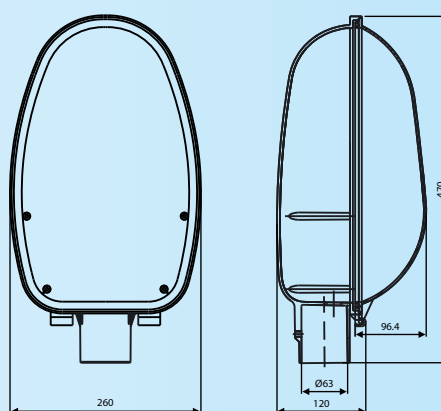
| Code no. | Lamp | Type | Power [W] | Weight [kg] |
|----------|-------------------|---------------|-----------|-------------|
| 3900292 | SVETILJKA FOPAL 1 | Mercury | 125W | 2.95kg |
| 3900294 | SVETILJKA FOPAL 1 | Sodium | 70W | 3.37kg |
| 3900295 | SVETILJKA FOPAL 1 | Sodium | 100W | 3.42kg |
| 3900296 | SVETILJKA FOPAL 1 | Sodium | 150W | 4.24kg |
| 3900297 | SVETILJKA FOPAL 1 | Metal-halogen | 70W | 3.37kg |
| 3900298 | SVETILJKA FOPAL 1 | Metal-halogen | 100W | 3.42kg |
| 3900299 | SVETILJKA FOPAL 1 | Metal-halogen | 150W | 4.24kg |

TECHNICAL CHARACTERISTICS OF FOPAL 1 LAMP

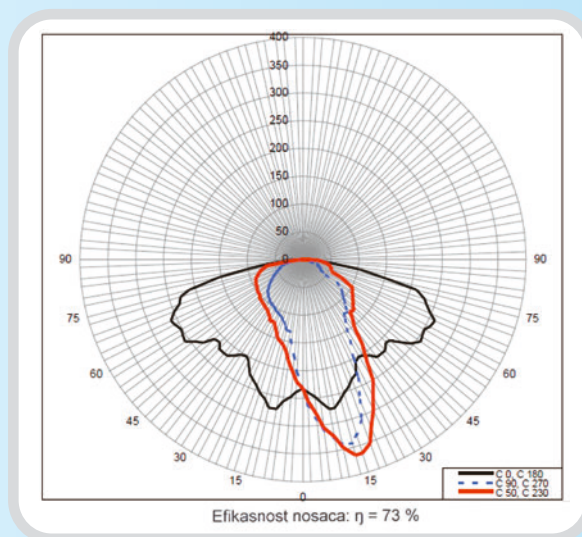


Specifications:

IP protection..... IP 65
 IK resistance IK 08
 Mounting $\varnothing 48$ i $\varnothing 60$
 Dimensions 470x260x210

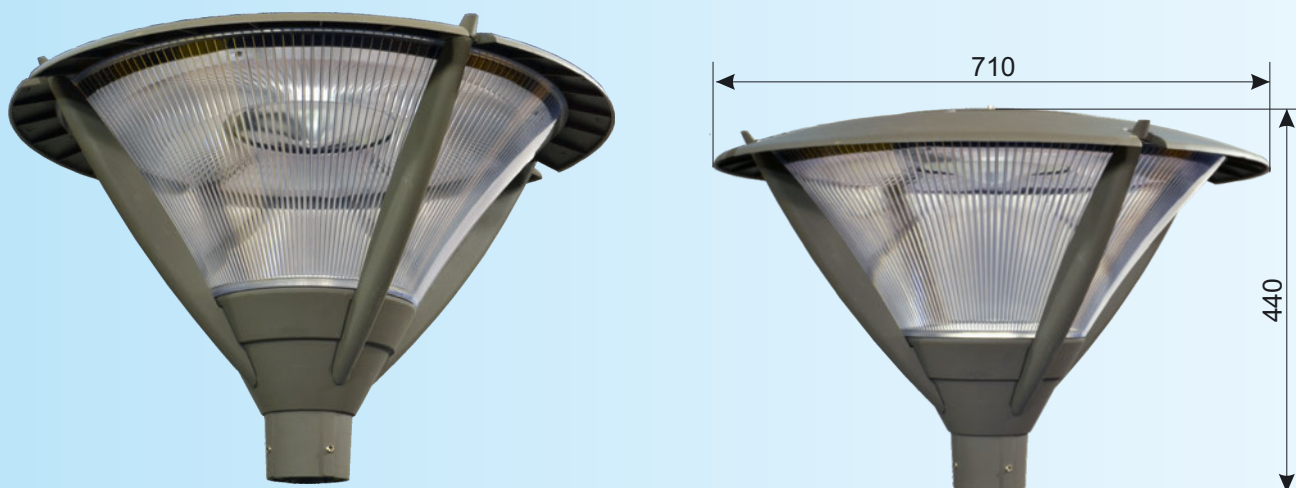


1. Aluminum casing
2. Silicone seal lid
3. Protector - polycarbonate
4. Lampholder E-27 or E-40
5. Aluminum senile
6. Quick Release Carrier: (Choke, Lighter and Capacitor)



| Fopal 1 | High pressure sodium | | | Mercury | Metal - Halogen | | |
|---------|----------------------|------|------|---------|-----------------|------|------|
| | 70w | 100w | 150w | 125w | 70w | 100w | 150w |
| | | | | | | | |
| | | | | | | | |

LAMP URBAN - Na/MH for decorative lighting



Specifications:

IP protection IP 65 / 66
 IK resistance IK 08 / 09 / 10
 Mounting on pole 3-8m
 Dimensions 710x440mm
 Lampholder E27, E40

| Code no. | Power W | Voltage V |
|----------|---------------------|--------------|
| 3900391 | E27 lampholder / 40 | 220 |
| 3900392 | 70 | 220 |
| 3900394 | 100 | 220 |
| 3900393 | 150 | 220 |

Urban lighting is used for illumination of parks, squares, promenades, factory circuits and in all places where good lighting is needed. The housing is made of aluminum cast in pressure and a polycarbonate protector.

Assembly:

The lamp is mounted vertically to the Ø 60/76 pillar. Fasten with four screw bolts.

LAMP FOR ILLUMINATING OF PARKS



Specifications:

| | |
|------------------------|-----------|
| IP protection | 54/65 IP |
| IK resistance | 07/08 IK |
| Mounting on pole | 3-5m |
| Dimensions | 500x430mm |
| Code number: 3900390 | |
| Voltage: 220V | |

The fluorescent lamp for urban lighting is used to illuminate parks, squares, promenades, factory circuits and in all places where good lighting is needed.

It consists of: enclosure made of aluminum cast aluminum under pressure, lid cover made of sheet metal with a deep drawing system, polycarbonate protectors, aluminum guides. All external elements are made of stainless steel.

Replacing the bulb is very easy by unscrewing the two screws on the lid cover and providing simple and easy access to the bulb.

Assembly: The lamp is mounted vertically to the pillar $\varnothing 90$. It is fastened with three screw bolts.

Power W: LED bulb 20 - 40W

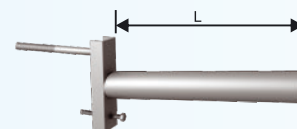
Lampholder: E-27

STEEL LAMP HOLDERS

Aligning carrier

for street lights for the pole. Surface protection is carried out electrostatically, and on customer's request can be performed with hot nickel.

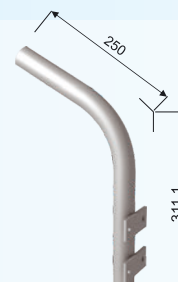
| Code no. | L (mm) |
|----------|--------|
| 3900450 | 500 |
| 3900451 | 1000 |
| 3900452 | 1500 |



The holder for streetlight 6/4

for mounting on the wall. Mounting is done with 4 screws. Surface protection is carried out electrostatically, and on customer's request can be performed with hot nickel.

Code number: 3900430



Tilting holder at an angle of 0-90

for streetlights, the mounting is made on the pillar $\varnothing 48-76$. Surface protection is performed electrostatically, and at the customer's request it can be hot galvanized.

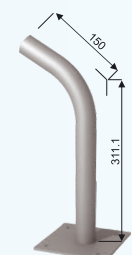
Code number: 3900405



Street light holder 6/4 "

with a mounting flange on top of the concrete staircase. Mounting is done with 4 screws. Surface protection is carried out electrostatically, and if desired the customer can be performed with hot nickel.

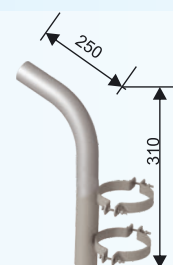
Code number: 3900420



Holder $\varnothing 48-1100$

Mounting is done by roving the limb for the base with two clasps in the bottom of the lire. Surface protection is carried out electrostatically, and if desired the customer can be performed with hot nickel.

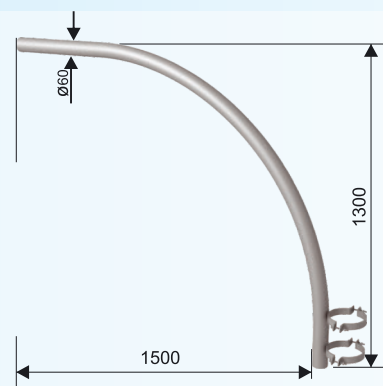
| Code no. | Pole (mm) | Diameter \varnothing (mm) |
|----------|-----------|-----------------------------|
| 3900432 | 120-130 | 48 |
| 3900433 | 120-130 | 60 |
| 3900436 | 200-250 | 48 |
| 3900437 | 200-250 | 60 |



Holder 1000/1500-95°

Mounting is done by roving the limb for the base with two clasps in the bottom of the lire. Surface protection is carried out electrostatically, and if desired the customer can be performed with hot nickel.

Code number: 3900410



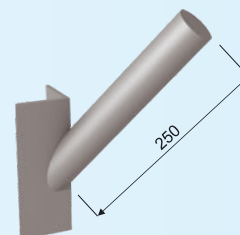
Note: Upon the request from the customer we can produce holders in other dimensions and shapes

STEEL LAMP HOLDERS

Street lamp holder 6/4 "

for binding to the pile. Bonding is carried out using the bonding strip (page 45 of this chapter) Surface protection is performed electrostatically, and the customer can also be performed with hot zinc coating.

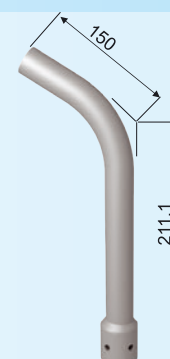
Code number: 3900400



Street lamp holder 6/4 "

without flanges for the top of the steel pillar, (we also work for the concrete poles on request). Surface protection is carried out electrostatically, and if desired the customer can be performed with hot nickel.

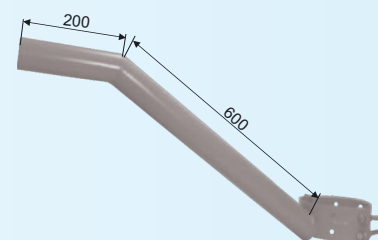
Code number: 3900440



Holder for a street light

Mounting is done on the stud by the clamp. Surface protection is carried out electrostatically, and if desired the customer can be performed with hot nickel.

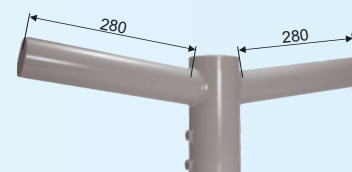
| Code no. | Pole (mm) | Diameter Ø(mm) |
|----------|-----------|----------------|
| 3900406 | 120-130 | 48 |
| 3900407 | 120-130 | 60 |
| 3900408 | 200-250 | 48 |
| 3900409 | 200-250 | 60 |



Reduction for steel pin ø76/60 90° double

The assembly is done on the top of the stairs by twisting the three studs. Surface protection is carried out electrostatically, and on customer's request can be performed with hot nickel.

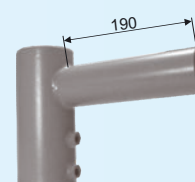
Code number: 3900403



Reduction for the top of the steel column ø76 / 60 90 °

Reduction for the top of the steel column ø76 / 60 90 °. The assembly is done on the top of the stairs by twisting the three studs. Surface protection is carried out electrostatically, and on customer's request can be performed with hot nickel.

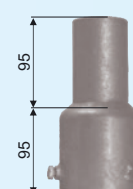
Code number: 3900402



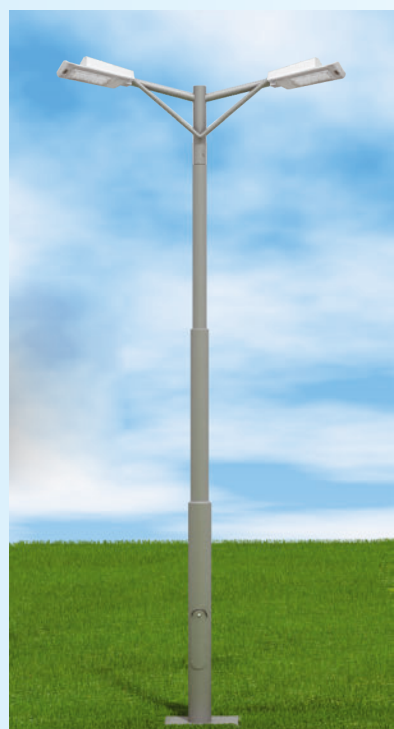
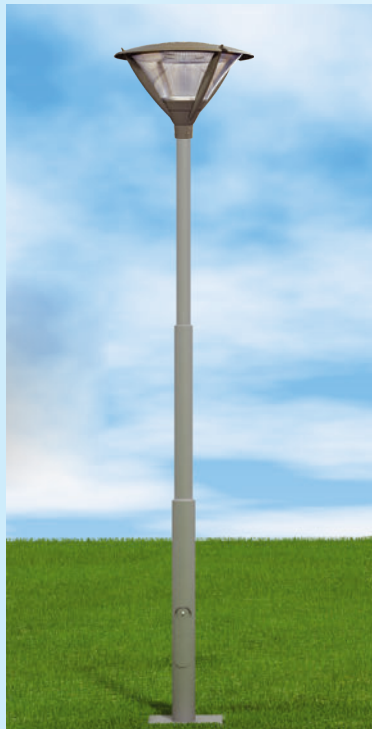
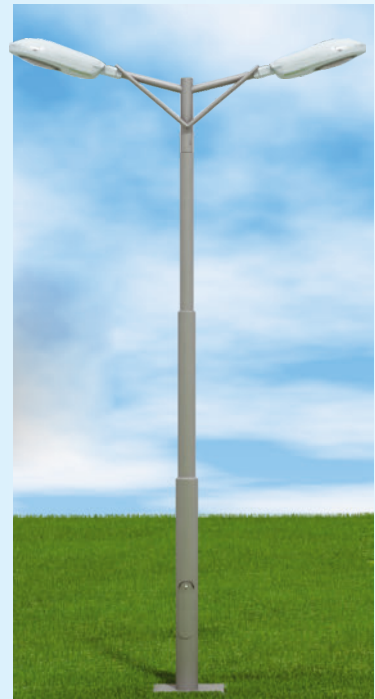
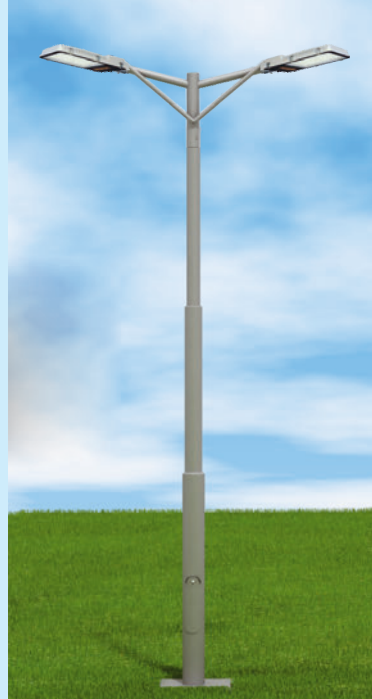
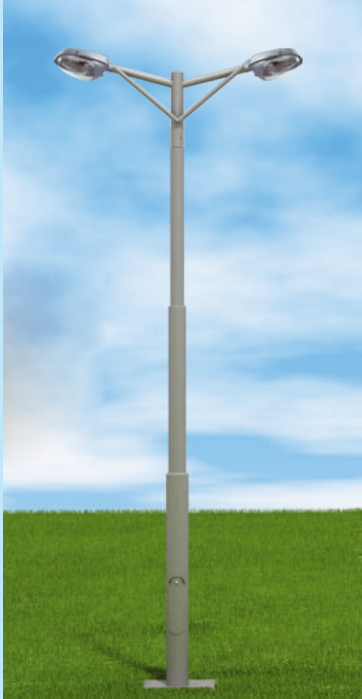
Lamp holder reducer ø76 / 60

Mounting is done at the top of the pillar by turning the three screws. Surface protection is performed by electrostatic painting, and on customer's request can be made with hot zinc plating. Done by zinc galvanizing or hot dip galvanin

Code number: 3900404



STEEL POLES



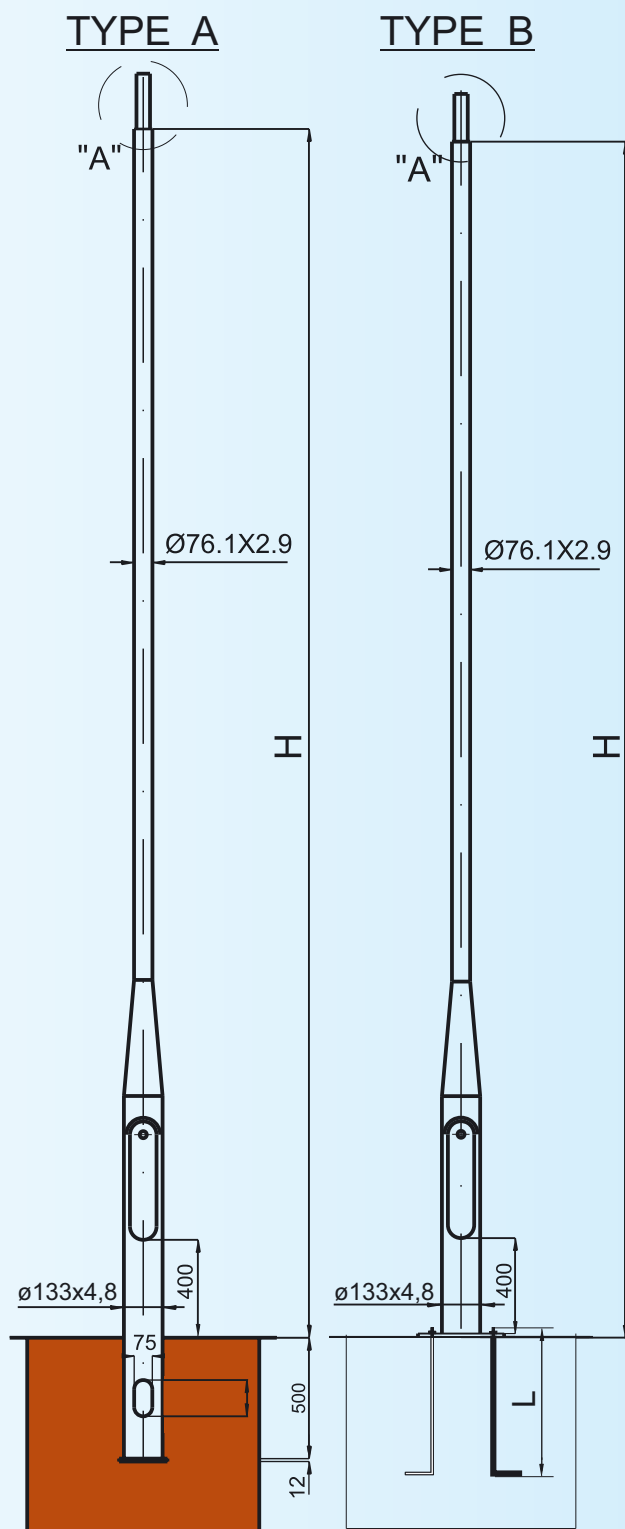
Note: Upon the request from the customer we can produce poles in other dimensions and shapes

SEGMENT PIPE STEEL POLES

Pipe metal poles are designed for use in illumination of roads, parks, promenades, etc. The pillars are made of high-quality steel tubes, which are joined by electrolytic welding. In this way the pillars produced have good mechanical characteristics and their shape satisfy all the electrostatic varnish in various colors of the RAL tone of the map.

By way of installation, the columns are divided into two types:

- to those placed in the concrete foundation Type (A) and
 - those for installation on concrete foundations with three or four anchor hooks Type (B).
- The top of the column (Detail "A") is made depending on the type of lamp, $\varnothing 48$ and $\varnothing 60$.

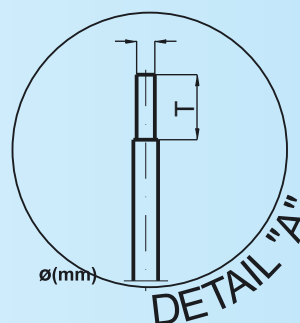


TYPE A

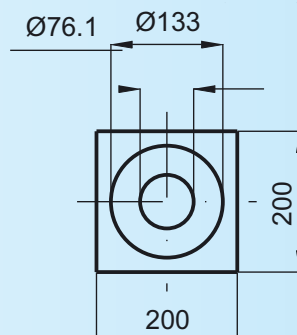
| Code no. | Height H(m) | Mass (kg) |
|----------|-------------|-----------|
| 3905030 | 3,0 | 45 |
| 3905035 | 3,5 | 47 |
| 3905040 | 4,0 | 50 |
| 3905045 | 4,5 | 57 |
| 3905050 | 5,0 | 67 |
| 3905055 | 5,5 | 70 |
| 3905060 | 6,0 | 81 |

TYPE B

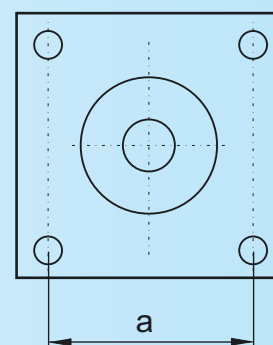
| Code no. | Height H(m) | Anchor M | Mass (kg) | Foundation type | Anchor panel (a) | Anchor (L mm) |
|----------|-------------|----------|-----------|-----------------|------------------|---------------|
| 3905130 | 3,0 | 16 | 51 | 1 | 330 | 450 |
| 3905135 | 3,5 | 16 | 54 | 2 | 330 | 450 |
| 3905140 | 4,0 | 16 | 57 | 3 | 330 | 450 |
| 3905145 | 4,5 | 16 | 59 | 3 | 330 | 450 |
| 3905150 | 5,0 | 16 | 62 | 3 | 330 | 450 |
| 3905155 | 5,5 | 16 | 64 | 4 | 330 | 450 |
| 3905160 | 6,0 | 18 | 67 | 5 | 400 | 600 |



TYPE A



TYPE B



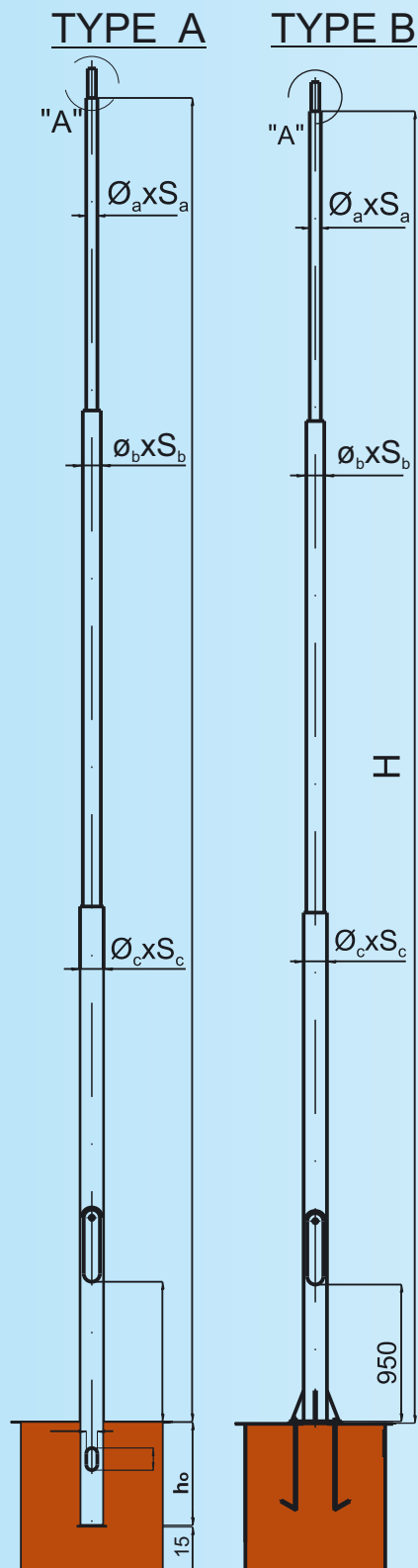
SEGMENT PIPE STEEL POLES

Pipe metal poles are designed for use in illumination of roads, parks, promenades, etc. The pillars are made of high-quality steel tubes, which are joined by electrolytic welding. In this way, the pillars produced have good mechanical characteristics and their shape satisfy all the aesthetic requirements of modern public lighting. Surface protection is performed with hot zinc plating or protective polyester electrostatic varnish in various colors of RAL tone charts.

By way of installation, the columns are divided into two types:

- to those placed in the concrete foundation Type (A) and
- those for installation on concrete foundations with three or four anchor hooks Type (B).

Top of the pillar (Detail "A") is made depending on the type of lamp, $\varnothing 48$ and $\varnothing 60$.



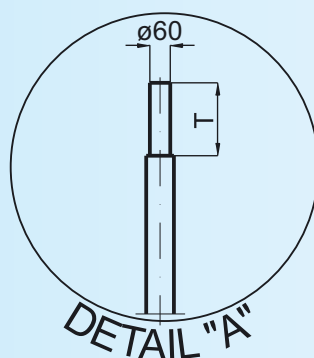
Weight
(kg)

| Code no. | Height H(m) | h ₀ (mm) | Ø _a ×S _a (mm×mm) | Ø _b ×S _b (mm×mm) | Ø _c ×S _c (mm×mm) |
|----------|----------------|------------------------|---|---|---|
| 3905070 | 7 | 700 | 76,1×2,5 | 108×3,6 | 133×4,8 |
| 3905080 | 8 | 700 | 76,1×2,5 | 108×3,6 | 133×4,8 |
| 3905090 | 9 | 800 | 76,1×2,5 | 108×3,6 | 133×4,8 |

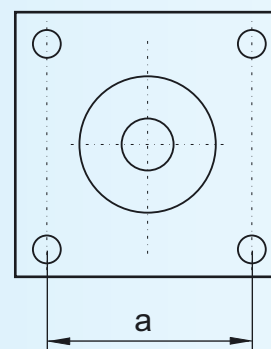
h₀ - depth of pole intrenching

| Code no. | Height H (m) | Mass (kg) | Anchor M | Foundation type | Anchor panel (a) | Anchor L |
|----------|-----------------|--------------|-------------|--------------------|---------------------|-------------|
| 3905070 | 7 | 93 | - | - | - | - |
| 3905080 | 8 | 115 | - | - | - | - |
| 3905090 | 9 | 125 | - | - | - | - |
| 3905170 | 7 | 91 | 18 | 6 | 400 | 600 |
| 3905180 | 8 | 112 | 20 | 7 | 400 | 600 |
| 3905190 | 9 | 122 | 20 | 8 | 400 | 600 |

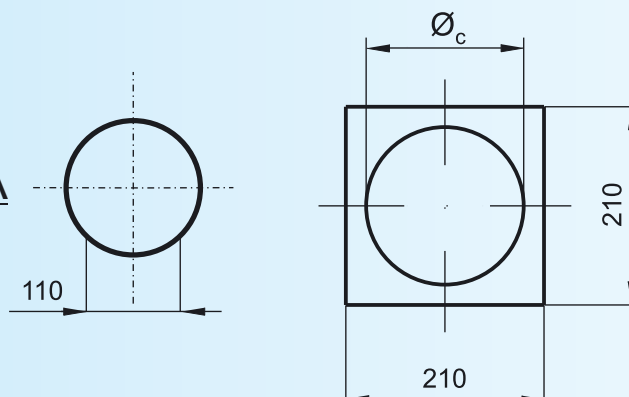
h₀ - depth of pole intrenching



TYPE B



TYPE A



SEGMENT PIPE STEEL POLES

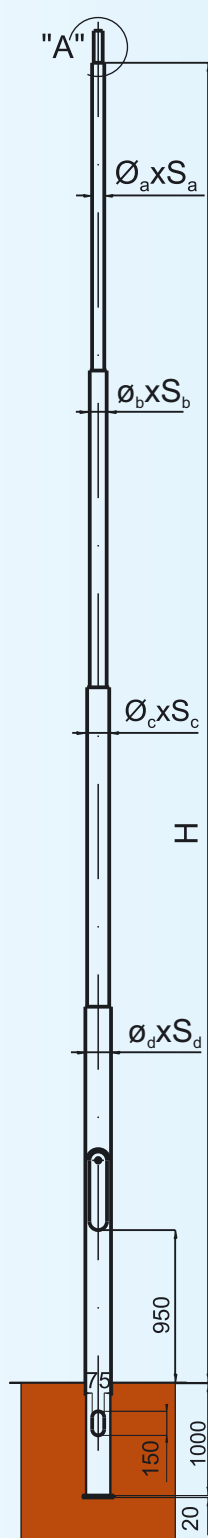
Pipe metal poles are designed for use in illumination of roads, parks, promenades, etc. The pillars are made of high-quality steel tubes, which are joined by electrolytic welding. In this way, the pillars produced have good mechanical characteristics and their shape satisfy all the aesthetic requirements of modern public lighting. Surface protection is performed with hot zinc plating or protective polyester electrostatic varnish in various colors of RAL tone charts.

By way of installation, the columns are divided into two types:

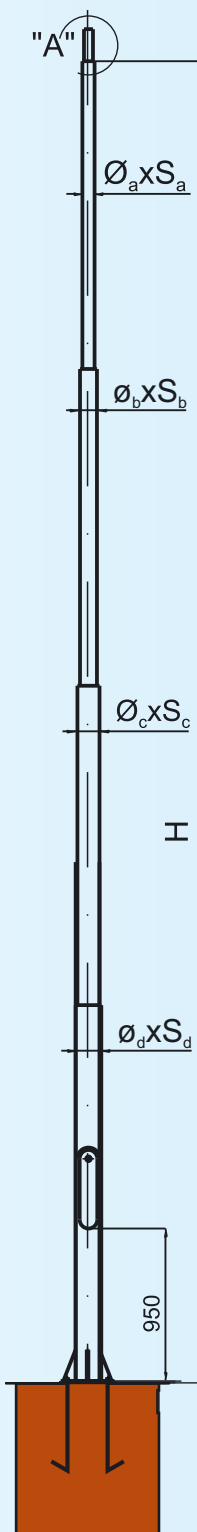
- to those placed in the concrete foundation Type (A) and
- those for installation on concrete foundations with three or four anchor hooks Type (B).

Top of the pillar (Detail "A") is made depending on the type of lamp, $\varnothing 48$ and $\varnothing 60$.

TYPE A



TYPE B

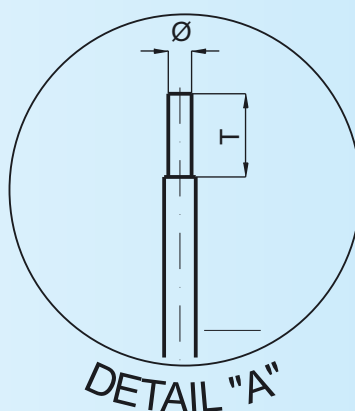


| Code no. | Height H(m) | h ₀ (mm) | Ø _a x S _a (mm x mm) | Ø _b x S _b (mm x mm) | Ø _c x S _c (mm x mm) | Ø _d x S _d (mm x mm) |
|----------|-------------|---------------------|---|---|---|---|
| 3905100 | 10 | 800 | 76,1 x 2,5 | 108 x 3,6 | 133 x 4,8 | 159 x 5,6 |
| 3905200 | 10 | - | 76,1 x 2,5 | 108 x 3,6 | 133 x 4,8 | 159 x 5,6 |

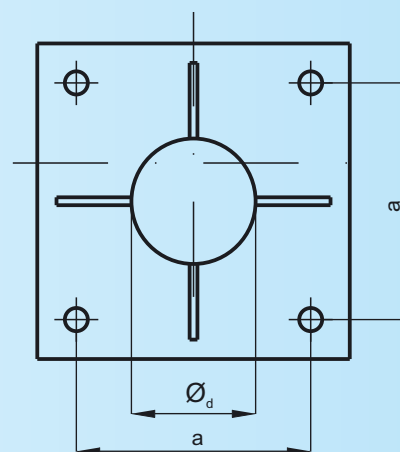
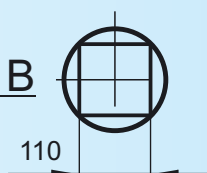
h₀ - depth of pole intr trenching

| Code no. | Height H(m) | Mass (kg) | Anchor M | Foundation type | Anchor plate (a) | Anchor L |
|----------|-------------|-----------|----------|-----------------|------------------|----------|
| 3905100 | 10 | 169 | - | - | - | - |
| 3905200 | 10 | 165 | 20 | 8 | 400 | 600 |

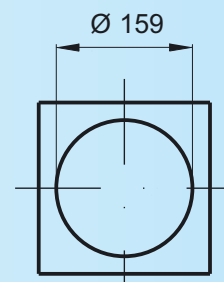
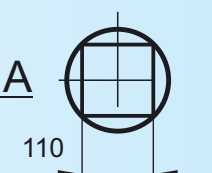
h₀ - depth of pole intr trenching



TYPE B



TYPE A



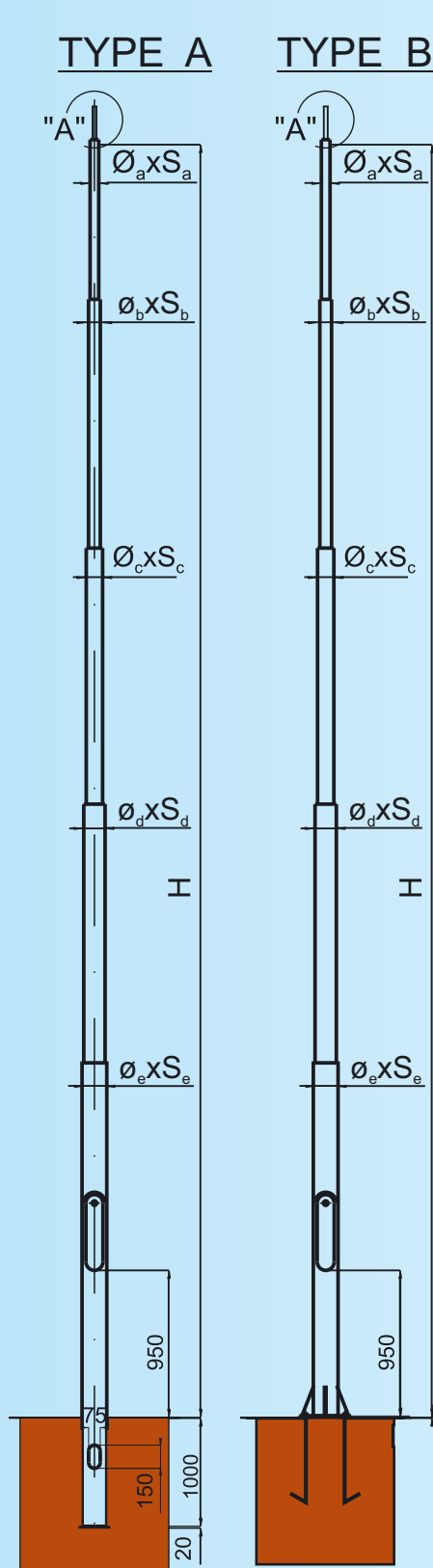
SEGMENT PIPE STEEL POLES

Pipe metal poles are designed for use in illumination of roads, parks, promenades, etc. The pillars are made of high-quality steel tubes, which are joined by electrolytic welding. In this way, the pillars produced have good mechanical characteristics and their shape satisfy all the aesthetic requirements of modern public lighting. Surface protection is performed with hot zinc plating or protective polyester electrostatic varnish in various colors of RAL tone charts.

By way of installation, the columns are divided into two types:

- to those placed in the concrete foundation Type (A) and
- those for installation on concrete foundations with three or four anchor hooks Type (B).

Top of the pillar (Detail "A") is made depending on the type of lamp, $\varnothing 48$ and $\varnothing 60$.

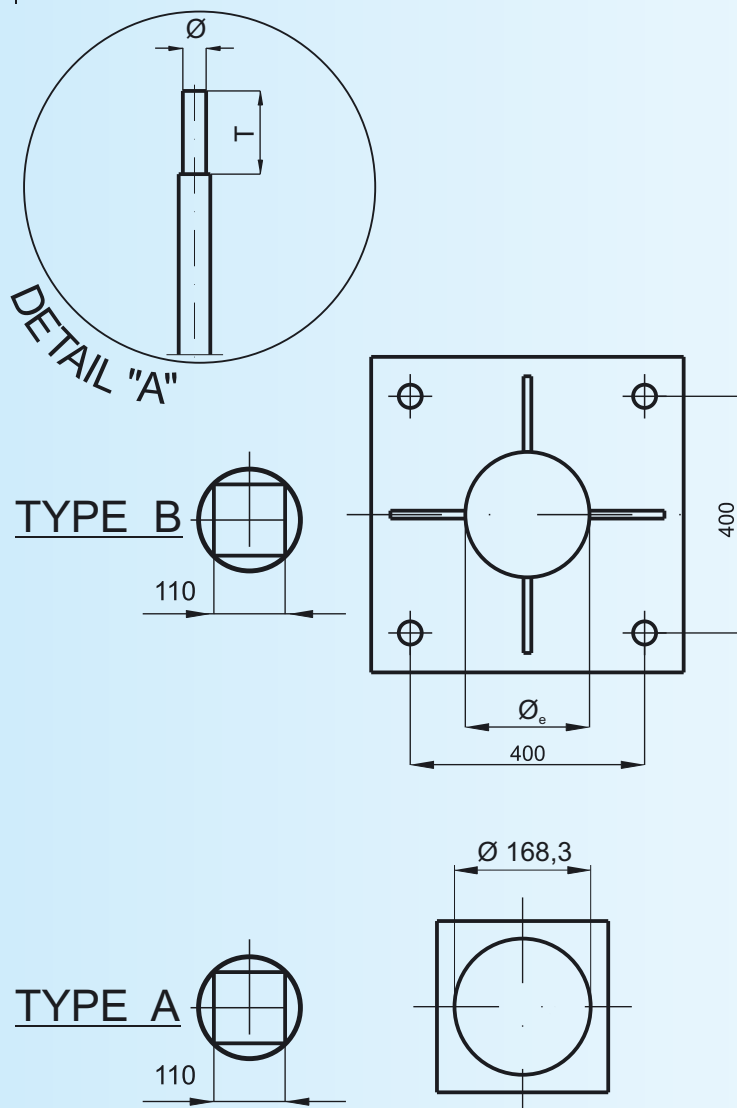


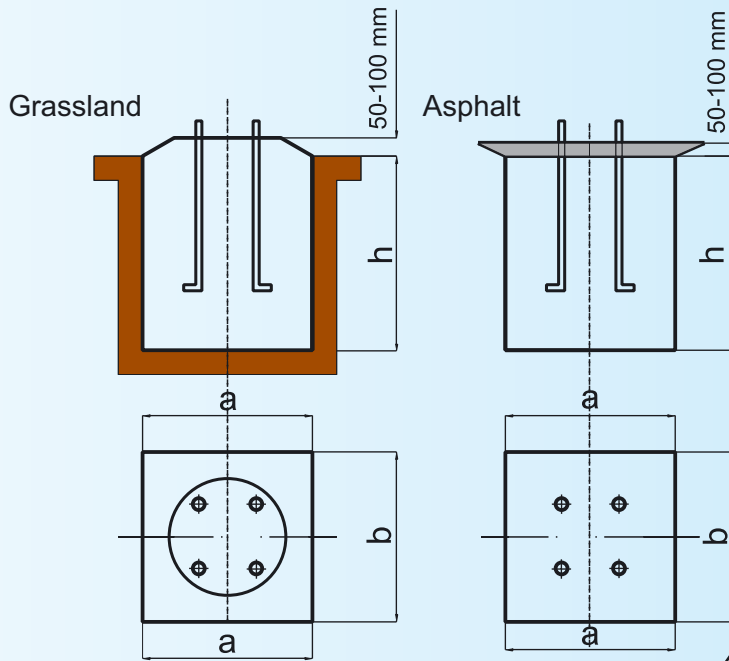
| Code no. | Height H(m) | h ₀ (mm) | $\varnothing_a \times S_a$ (mmxmm) | $\varnothing_b \times S_b$ (mmxmm) | $\varnothing_c \times S_c$ (mmxmm) | $\varnothing_d \times S_d$ (mmxmm) | $\varnothing_e \times S_e$ (mmxmm) |
|----------|-------------|---------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| 3905110 | 11 | 1000 | 76,1x2,5 | 108x3,6 | 133x4,8 | 159x5,6 | 168,3x5,5 |
| 3905120 | 12 | 1000 | 76,1x2,5 | 108x3,6 | 133x4,8 | 159x5,6 | 168,3x5,5 |
| 3905210 | 11 | - | 76,1x2,5 | 108x3,6 | 133x4,8 | 159x5,6 | 168,3x5,5 |
| 3905220 | 12 | - | 76,1x2,5 | 108x3,6 | 133x4,8 | 159x5,6 | 168,3x5,5 |

h₀ - depth of pole intrenching

| Code no. | Height H(m) | Mass (kg) | Anchor M | Foundation type | Anchor plate (a) | Anchor L |
|----------|-------------|-----------|----------|-----------------|------------------|----------|
| 3905110 | 11 | 201 | - | - | - | - |
| 3905120 | 12 | 218 | - | - | - | - |
| 3905210 | 11 | 198 | 22 | 9 | 400 | 800 |
| 3905220 | 12 | 214 | 22 | 9 | 400 | 800 |

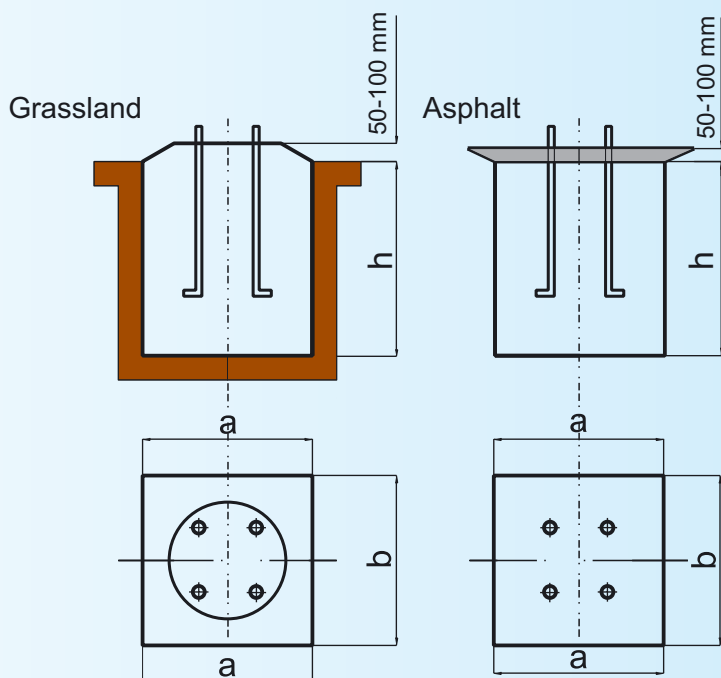
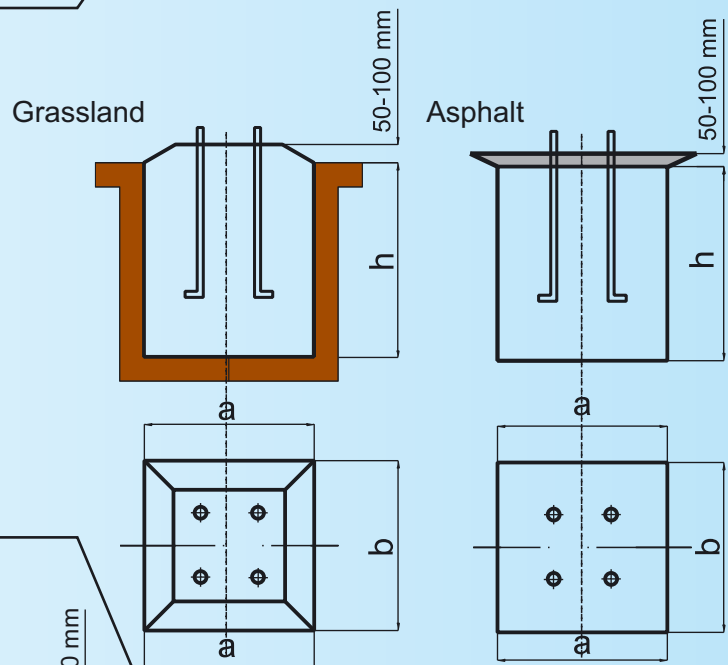
h₀ - depth of pole intrenching





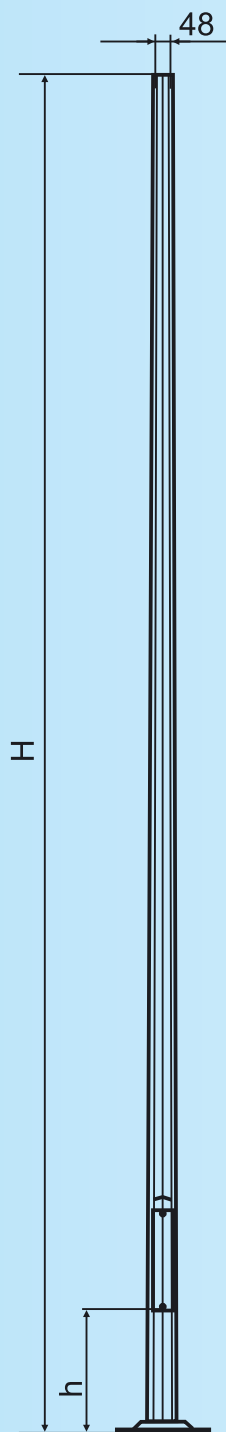
| Foundation type | a (mm) | b (mm) | h (mm) | V (m³) |
|-----------------|--------|--------|--------|--------|
| 1 | 500 | 500 | 550 | 0,14 |
| 2 | 550 | 550 | 550 | 0,17 |
| 3 | 600 | 600 | 600 | 0,22 |

| Foundation type | a (mm) | b (mm) | h (mm) | V (m³) |
|-----------------|--------|--------|--------|--------|
| 4 | 600 | 600 | 700 | 0,25 |
| 5 | 700 | 700 | 700 | 0,34 |
| 6 | 800 | 800 | 800 | 0,51 |



| Foundation type | a (mm) | b (mm) | h (mm) | V (m³) |
|-----------------|--------|--------|--------|--------|
| 7 | 800 | 800 | 1000 | 0,64 |
| 8 | 900 | 900 | 1000 | 0,81 |
| 9 | 1000 | 1000 | 1100 | 1,1 |

OCTAGONAL STEEL POLE WITH ENDING Ø 48



Octagonal steel pillars are intended for use in illumination of roads, parks, walkways, industrial buildings, etc. The surface is protected by hot zinc plating, and at the request of the customer it can also be painted according to the RAL chart.

| Code no. | Type of pole | Pole diameter | Surface protection | H m | h mm |
|----------|---------------|---------------|--------------------|-----|------|
| 3905330 | FOS-L3-48-F | ø48 | F | 3 | 500 |
| 3905331 | FOS-L3-48-Z | ø48 | Zn | 3 | 500 |
| 3905335 | FOS-L3,5-48-F | ø48 | F | 3.5 | 500 |
| 3905336 | FOS-L3,5-48-Z | ø48 | Zn | 3.5 | 500 |
| 3905340 | FOS-L4-48-F | ø48 | F | 4 | 500 |
| 3905341 | FOS-L4-48-Z | ø48 | Zn | 4 | 500 |
| 3905345 | FOS-L4,5-48-F | ø48 | F | 4.5 | 500 |
| 3905346 | FOS-L4,5-48-Z | ø48 | Zn | 4.5 | 500 |
| 3905350 | FOS-L5-48-F | ø48 | F | 5 | 500 |
| 3905351 | FOS-L5-48-Z | ø48 | Zn | 5 | 500 |
| 3905360 | FOS-L6-48-F | ø48 | F | 6 | 600 |
| 3905361 | FOS-L6-48-Z | ø48 | Zn | 6 | 600 |
| 3905370 | FOS-L7-48-F | ø48 | F | 7 | 600 |
| 3905371 | FOS-L7-48-Z | ø48 | Zn | 7 | 600 |
| 3905380 | FOS-L8-48-F | ø48 | F | 8 | 800 |
| 3905381 | FOS-L8-48-Z | ø48 | Zn | 8 | 800 |
| 3905390 | FOS-L9-48-F | ø48 | F | 9 | 800 |
| 3905391 | FOS-L9-48-Z | ø48 | Zn | 9 | 800 |
| 3905392 | FOS-L10-48-F | ø48 | F | 10 | 950 |
| 3905393 | FOS-L10-48-Z | ø48 | Zn | 10 | 950 |
| 3905394 | FOS-L11-48-F | ø48 | F | 11 | 950 |
| 3905395 | FOS-L11-48-Z | ø48 | Zn | 11 | 950 |
| 3905396 | FOS-L12-48-F | ø48 | F | 12 | 950 |
| 3905397 | FOS-L12-48-Z | ø48 | Zn | 12 | 950 |

When ordering the pillar please specify:

- the catalog mark of the column
- type of lire that is installed on the pillar
- type of lamp installed on the pillar
- type of distribution box that is installed in the pillar

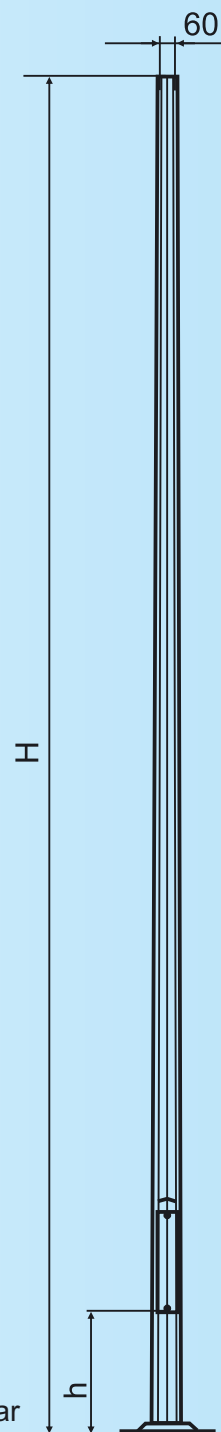
OCTAGONAL STEEL POLE WITH ENDING Ø 60

Octagonal steel pillars are designed for use in illumination of roads, parks, walkways, industrial buildings, etc. The surface is protected by hot zinc plating, and at the request of the customer it can also be painted according to the RAL map.

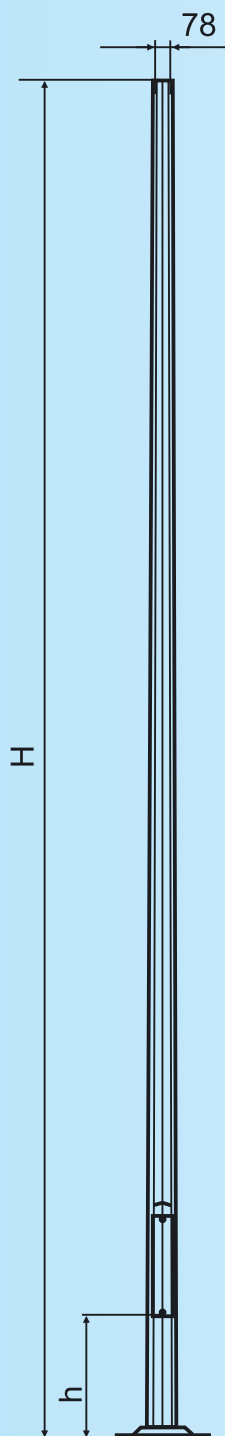
| Code number | Type of pole | Completion of the pillar | Surface protection | H m | h mm |
|-------------|---------------|--------------------------|--------------------|-----|------|
| 3905430 | FOS-L3-60-F | ø60 | F | 3 | 500 |
| 3905431 | FOS-L3-60-Z | ø60 | Zn | 3 | 500 |
| 3905435 | FOS-L3,5-60-F | ø60 | F | 3.5 | 500 |
| 3905436 | FOS-L3,5-60-Z | ø60 | Zn | 3.5 | 500 |
| 3905440 | FOS-L4-60-F | ø60 | F | 4 | 500 |
| 3905441 | FOS-L4-60-Z | ø60 | Zn | 4 | 500 |
| 3905445 | FOS-L4,5-60-F | ø60 | F | 4.5 | 500 |
| 3905446 | FOS-L4,5-60-Z | ø60 | Zn | 4.5 | 500 |
| 3905450 | FOS-L5-60-F | ø60 | F | 5 | 500 |
| 3905451 | FOS-L5-60-Z | ø60 | Zn | 5 | 500 |
| 3905460 | FOS-L6-60-F | ø60 | F | 6 | 600 |
| 3905461 | FOS-L6-60-Z | ø60 | Zn | 6 | 600 |
| 3905470 | FOS-L7-60-F | ø60 | F | 7 | 600 |
| 3905471 | FOS-L7-60-Z | ø60 | Zn | 7 | 600 |
| 3905480 | FOS-L8-60-F | ø60 | F | 8 | 800 |
| 3905481 | FOS-L8-60-Z | ø60 | Zn | 8 | 800 |
| 3905490 | FOS-L9-60-F | ø60 | F | 9 | 800 |
| 3905491 | FOS-L9-60-Z | ø60 | Zn | 9 | 800 |
| 3905492 | FOS-L10-60-F | ø60 | F | 10 | 950 |
| 3905493 | FOS-L10-60-Z | ø60 | Zn | 10 | 950 |
| 3905494 | FOS-L11-60-F | ø60 | F | 11 | 950 |
| 3905495 | FOS-L11-60-Z | ø60 | Zn | 11 | 950 |
| 3905496 | FOS-L12-60-F | ø60 | F | 12 | 950 |
| 3905497 | FOS-L12-60-Z | ø60 | Zn | 12 | 950 |

When ordering the pillar please specify:

- the catalog mark of the column
- type of lire that is mounted on the pillar
- type of lamp that is mounted on the pillar
- type of distribution box which is installed in the pillar



OCTAGONAL STEEL POLE WITH ENDING Ø 78



Octagonal steel pillars are designed for use in illumination of roads, parks, walkways, industrial buildings, etc. The surface is protected by hot zinc plating, and at the request of the customer it can also be painted according to the RAL map.

| Code number | Type of pole | Completion of the pillar | Surface protection | H m | h mm |
|-------------|---------------|--------------------------|--------------------|-----|------|
| 3905530 | FOS-L3-78-F | Ø78 | F | 3 | 500 |
| 3905531 | FOS-L3-78-Z | Ø78 | Zn | 3 | 500 |
| 3905535 | FOS-L3,5-78-F | Ø78 | F | 3.5 | 500 |
| 3905536 | FOS-L3,5-78-Z | Ø78 | Zn | 3.5 | 500 |
| 3905540 | FOS-L4-78-F | Ø78 | F | 4 | 500 |
| 3905541 | FOS-L4-78-Z | Ø78 | Zn | 4 | 500 |
| 3905545 | FOS-L4,5-78-F | Ø78 | F | 4.5 | 500 |
| 3905546 | FOS-L4,5-78-Z | Ø78 | Zn | 4.5 | 500 |
| 3905550 | FOS-L5-78-F | Ø78 | F | 5 | 500 |
| 3905551 | FOS-L5-78-Z | Ø78 | Zn | 5 | 500 |
| 3905560 | FOS-L6-78-F | Ø78 | F | 6 | 600 |
| 3905561 | FOS-L6-78-Z | Ø78 | Zn | 6 | 600 |
| 3905570 | FOS-L7-78-F | Ø78 | F | 7 | 600 |
| 3905571 | FOS-L7-78-Z | Ø78 | Zn | 7 | 600 |
| 3905580 | FOS-L8-78-F | Ø78 | F | 8 | 800 |
| 3905581 | FOS-L8-78-Z | Ø78 | Zn | 8 | 800 |
| 3905590 | FOS-L9-78-F | Ø78 | F | 9 | 800 |
| 3905591 | FOS-L9-78-Z | Ø78 | Zn | 9 | 800 |
| 3905592 | FOS-L10-78-F | Ø78 | F | 10 | 950 |
| 3905593 | FOS-L10-78-Z | Ø78 | Zn | 10 | 950 |
| 3905594 | FOS-L11-78-F | Ø78 | F | 11 | 950 |
| 3905595 | FOS-L11-78-Z | Ø78 | Zn | 11 | 950 |
| 3905596 | FOS-L12-78-F | Ø78 | F | 12 | 950 |
| 3905597 | FOS-L12-78-Z | Ø78 | Zn | 12 | 950 |

When ordering the pillar please specify:

- the catalog mark of the column
- type of lire that is mounted on the pillar
- type of lamp that is mounted on the pillar
- type of distribution box which is installed in the pillar

THE FIRST PROGRAM OF FEMAN LIGHTING - 1985 **Feman**

These lamps are intended for illumination of streets, individual buildings, halls and the like. Cases and reducers are made of pressurized aluminum.

Senilo-reflector made of deep-drawn sheet metal, with raised edges. The light source is protected by a protective glass with thread and breathing. The degree of protection is IP 65. The housing, reducer and senile are protected by polyester electrostatic varnish.

On customer request, we can make in other colors.

OG LAMP - FLAT



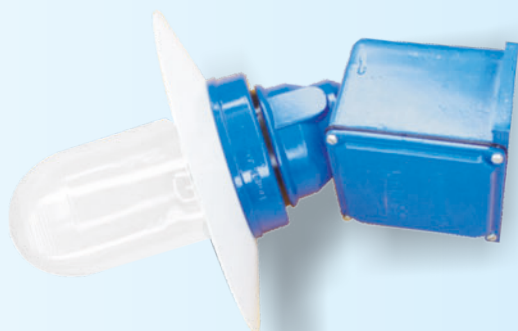
| Code number | Type | Power W | Lamphoder |
|-------------|--------|---------|-----------|
| 3900090 | 100W/2 | 100 | E-27 |
| 3900110 | 200W/2 | 200 | E-27 |

OG LAMP - INCLINED



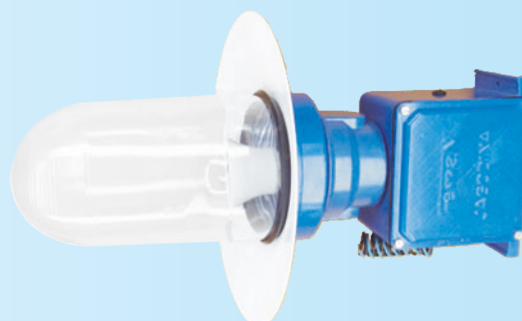
| Code number | Type | Power W | Lamphoder |
|-------------|--------|---------|-----------|
| 3900050 | 100W/2 | 100 | E-27 |
| 3900070 | 200W/2 | 200 | E-27 |

SODIUM - MERCURIAL LAMP - INCLINED



| Code number | Type | Power W | Lamphoder |
|-------------|----------|------------------|-----------|
| 3900140 | inclined | 70(Na) / 125(Hg) | E-27 |

SODIUM - MERCURIAL LAMP - FLAT



| Code number | Type | Power W | Lamphoder |
|-------------|----------|------------------|-----------|
| 3900130 | straight | 70(Na) / 125(Hg) | E-27 |

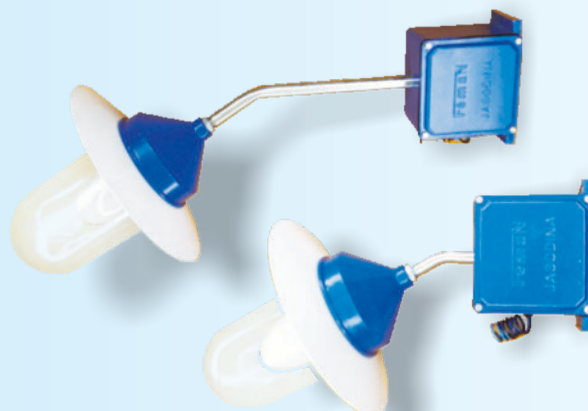
Feman THE FIRST PROGRAM OF FEMAN LIGHTING - 1985

WATERPROOF LAMP - INCLINED



| Code number | Power W | Lamphoder |
|-------------|---------|-----------|
| 3900010 | 100 | E-27 |
| 3900020 | 200 | E-27 |

STREET POLE LIGHT WITH CHOKE - SODIUM - MERCURY



| Code number | Type | Power W | Lamphoder |
|-------------|--------------|------------------|-----------|
| 3900150 | longer tube | 70(Na) / 125(Hg) | E-27 |
| 3900155 | shorter tube | 70(Na) / 125(Hg) | E-27 |

BALLAST PF-125W WITH BASE FOR MERCURY LAMP



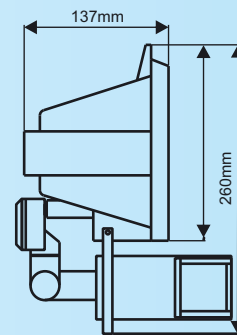
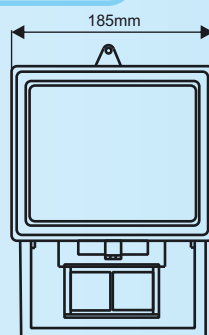
| Code number | Dimensions | Package | Weight |
|-------------|-----------------|---------|-------------|
| 3900300 | 103,5x78,5x72,5 | 1 kom | 1,8 kg/pcs. |

SHADE



| Code number | Type | Outer diameter mm | Inner diameter mm | Package pcs | Weight kg/pc |
|-------------|--------|-------------------|-------------------|-------------|--------------|
| 3901005 | S-1090 | 230 | 86 | 50 | 0,16 |
| 3901010 | S-200 | 295 | 125 | 50 | 0,20 |

HALOGEN SPOTLIGHT WITH SENSOR



| Code number | Type | Power W |
|-------------|--------------------------------|---------|
| 3900210 | with sensor without light bulb | - |
| 3900213 | with sensor and light bulb | 300 |
| 3900215 | with sensor and light bulb | 500 |

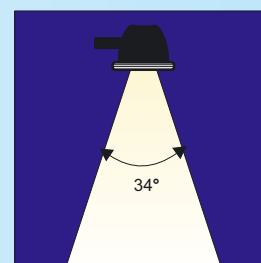
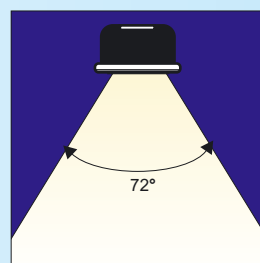
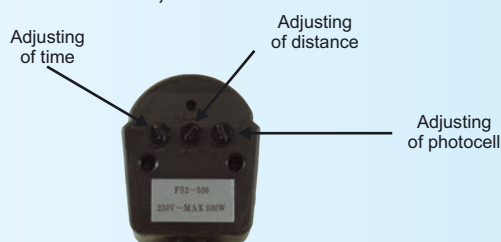
DESCRIPTION

The halogen reflector with the sensor is the following construction.

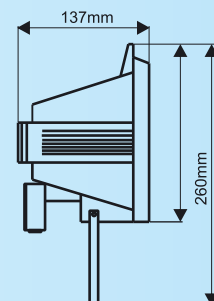
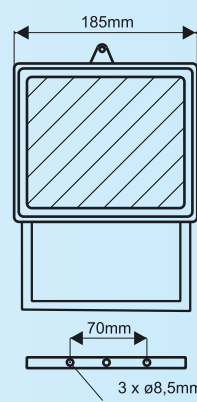
The housing is made of silumine, pressure casting, and the construction is made so that the ribs achieve better heat transfer. Surface protection of the enclosure is made by the plasticizing process, which makes it extremely resistant to atmospheric influences.

The beam of the lighting is wide and evenly distributed, thus maximizing the energy consumption. It is counted in all positions as desired. The voltage is 220V. A reflector with built-in IR sensor for automatic ignition, with a photo-timer lighting control, is ideal for alarms.

All these features make this reflector suitable for a wide range of applications both for outdoor and indoor installation, and the most common application is for illumination of entrances, windows, corridors, facades, monuments, etc.



HALOGEN SPOTLIGHT 200-500W



| Code number | Type | Power W |
|-------------|--------------------|---------|
| 3900200 | without light bulb | - |
| 3900218 | with bulb | 200 |
| 3900220 | with bulb | 300 |
| 3900230 | with bulb | 500 |

DESCRIPTION

Halogen spotlights - Feminine are made according to European standards.

The housing is made of silumine, pressure casting, and the construction is elaborated in detail with the heat-transfer ribs. Surface protection of the enclosure is made by a process resistant to atmospheric influences.

The beam of the lighting is wide and evenly distributed, thus maximizing the energy consumption. It is counted in all positions.

All of these features make this reflector suitable for a wide range of applications both for outdoor and indoor installation, and the most common application is for illumination entrances, showcases, corridors, facades, monuments etc ...

TRIPODS FOR SPOTLIGHTS

They are used for quick and easy lighting of the necessary parts of the room. The reflectors can be lifted up to a height of 2,800 mm, can be adjusted forward and backwards and are rotating for 360°.

HALOGEN SPOTLIGHT - MOBILE



| Code number | Type | Power W |
|-------------|---------------------------|---------|
| 3900235 | mobile without light bulb | - |

They are used for quick and easy lighting of the necessary parts-space. The housing is made of silumine, pressure casting, and the construction is elaborated in detail with the heat-transfer ribs. Surface protection of the enclosure is made by the plasticizing process, which makes it extremely resistant to atmospheric influences. The beam of the lighting is wide and evenly distributed, thus maximizing the energy consumption. Delivered without a bulb and without conductors.



| Code number | Number of spotlights pcs | Height mm |
|-------------|--------------------------|-----------|
| 3910001 | 1 | 2800 |
| 3910002 | 2 | 2800 |

SPOTLIGHT for illumination of billboards, advertisings ...



The way the casing is manufactured, (cast aluminum under pressure) and surface protection made by the plasticization process makes this reflector resistant to atmospheric influences, which allows its internal and external use.

By using anodized aluminum, finely polished, a better distribution of the light flux is obtained for the reflection surface.

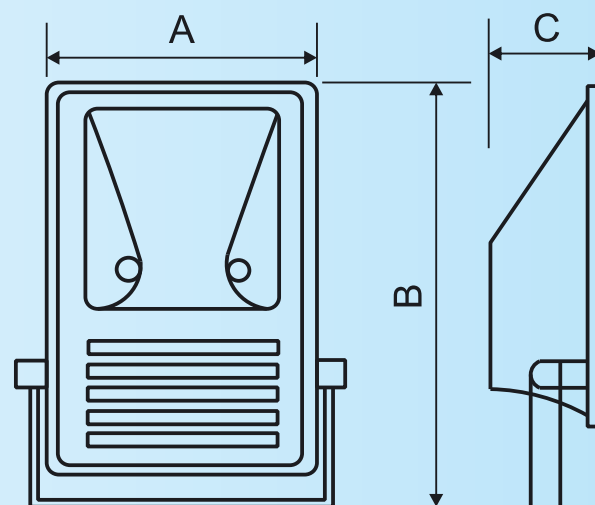
The beam of the lighting is wide and evenly distributed, thus maximizing the energy consumption. It is counted in all positions as desired.

With its compact and elegant look, it easily fits into all objects, modern and traditional architectures.

All these features make this reflector suitable for a wide range of applications for both outdoor and indoor mounting, and the most common use is for lighting windows, facades, monuments, parks, etc.

Specifications:

- Degree of protection IP 65
- Moment voltage 220 ~ 240V, 50Hz
- Installed 150W power
- The bottom of the RX7s



| Code number | Type | Power W | A (mm) | B (mm) | C (mm) |
|-------------|---------------|---------|--------|--------|--------|
| 3900192 | Metal-halogen | 1x150W | 230 | 430 | 90 |

SPOTLIGHT for illumination of billboards, advertisings ...



The way the casing is manufactured, (cast aluminum under pressure) and surface protection made by the plasticization process makes this reflector resistant to atmospheric influences, which allows its internal and external use.

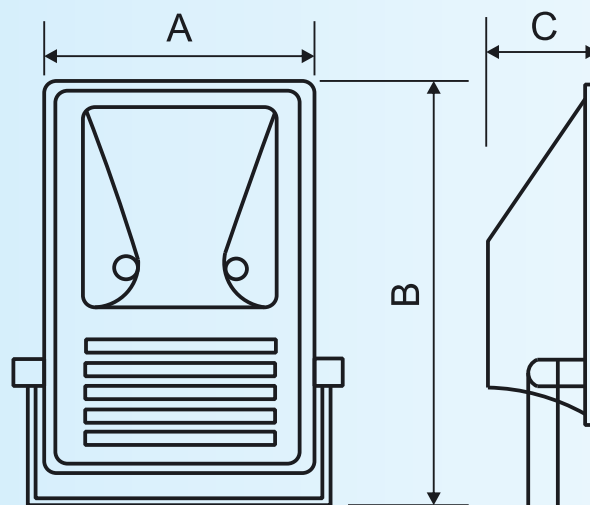
By using anodized aluminum, finely polished, a better distribution of the light flux is obtained for the reflection surface.

The beam of the lighting is wide and evenly distributed, thus maximizing the energy consumption. It is counted in all positions as desired. With its compact and elegant look, it easily fits into all objects, modern and traditional architectures.

All these features make this reflector suitable for a wide range of applications both for external and internal mounting, and the most common application for illumination of facades, monuments, parks, billboards, etc.

Specifications:

- Degree of protection IP 65
- Moment voltage 220 ~ 240V, 50Hz
- Installed power 400W
- Features E40



| Code number | Type | Power W | A (mm) | B (mm) | C (mm) |
|-------------|---------------|---------|--------|--------|--------|
| 3900193 | Metal-halogen | 1x400W | 395 | 700 | 145 |

SEARCHLIGHT to illuminate facades, small sports fields and large billboards



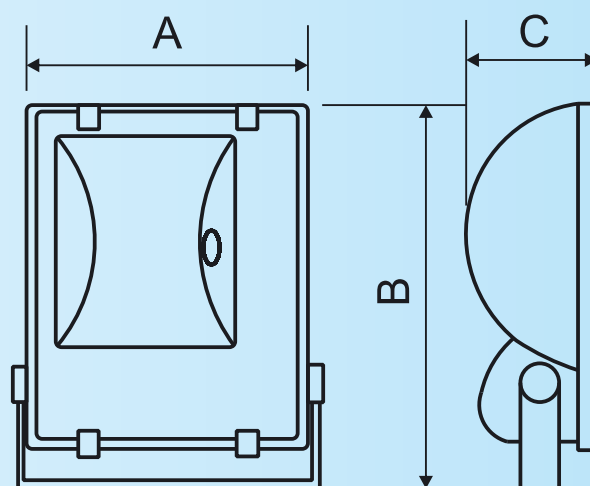
The way the casing is manufactured, (cast aluminum under pressure) and surface protection made by the plasticization process makes this reflector resistant to atmospheric influences, which allows its internal and external use.

By using anodized aluminum, finely polished, a better distribution of the light flux is obtained for the reflection surface. The beam of the lighting is wide and evenly distributed, thus maximizing the energy consumption. It is counted in all positions as desired. With its compact and elegant look, it easily fits into all objects, modern and traditional architectures.

All these features make this reflector suitable for a wide range of applications both for external and internal mounting, and the most common application for illumination of facades, monuments, parks, billboards, etc.

Specifications:

- Degree of protection IP 65
- Moment voltage 220 ~ 240V, 50Hz
- Installed power 70-400W
- Power E27, E40



| Code number | Type | Power W | A (mm) | B (mm) | C (mm) |
|-------------|---------|---------|--------|--------|--------|
| 3900201 | Na / MH | 70W | 480 | 530 | 155 |
| 3900202 | Na / MH | 100W | 480 | 530 | 155 |
| 3900203 | Na / MH | 150W | 480 | 530 | 155 |
| 3900194 | Na / MH | 250W | 480 | 530 | 155 |
| 3900198 | Na / MH | 400W | 480 | 530 | 155 |

METAL-HALOGEN SPOTLIGHT 2000W



DESCRIPTION

The spotlight can be mounted on the wall as well as on the pillar. The reflective surface, (rotationally symmetrical) is made of high-quality, polished aluminum, which ensures high gloss.

The beam of the lighting is wide and evenly distributed, thus maximizing the energy consumption. It is counted in all positions as desired.

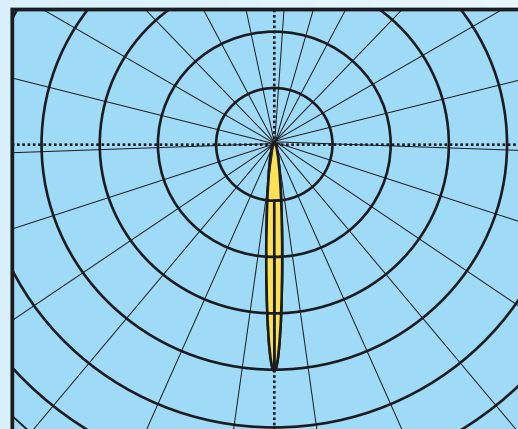
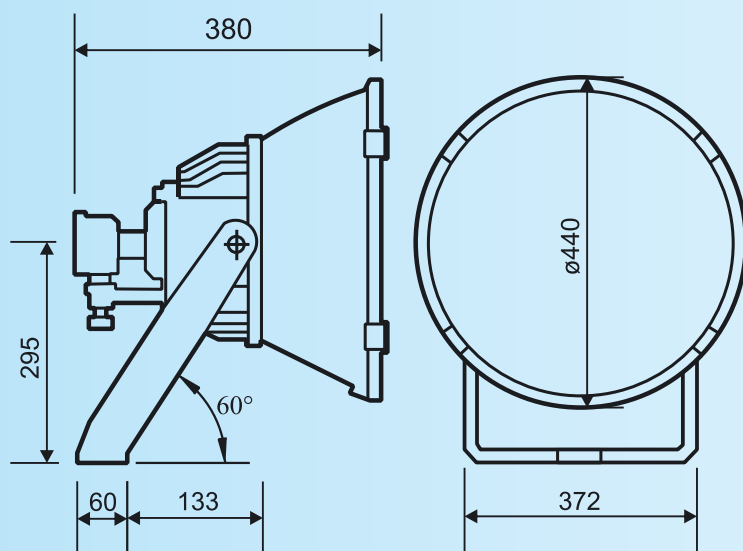
The achieved degree of isolation of the luminaire is IP54. The reflector connects to the 400V network. The recommended cross-section for copper conductors is $3 \times 2,5 \text{ mm}^2$.

Additional equipment:

- Metal halogen light source 2000W
- Capacitor $60 \mu\text{F}$, 400V

All these features make this reflector suitable for a wide range of applications both for outdoor and indoor installation, and the most common application for illumination of sports grounds, stadiums ...

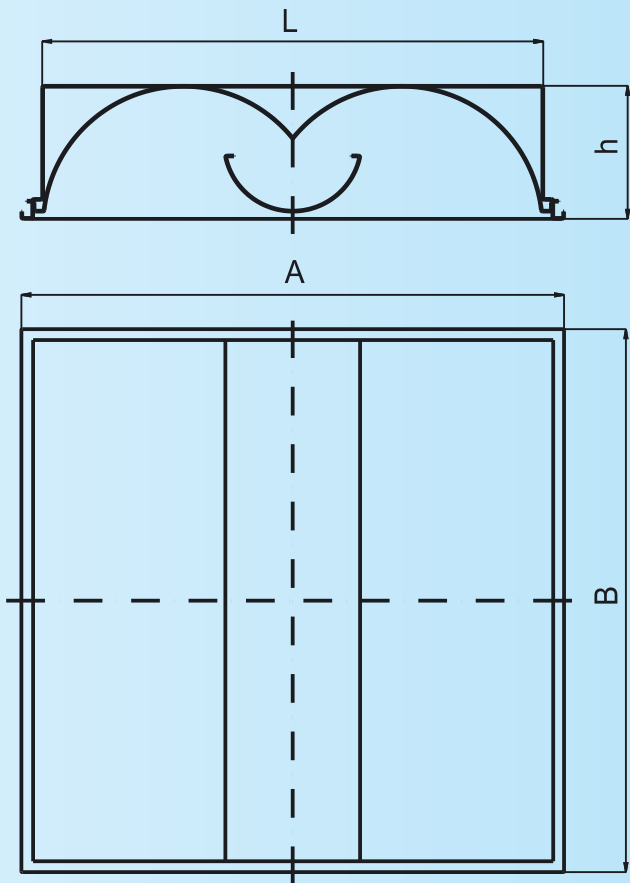
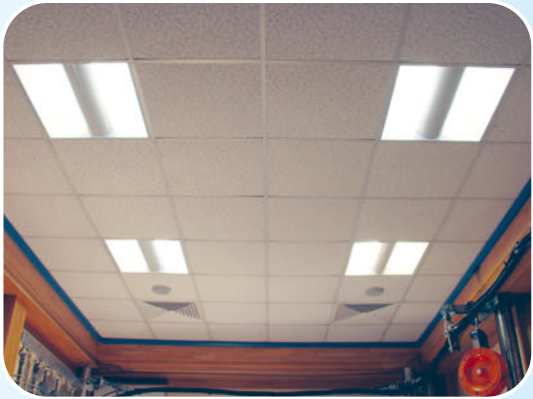
| Code number | Type | Weight kg | Power W |
|-------------|---------------|-----------|---------|
| 3900240 | Metal-halogen | 12 | 2000W |



Metal-halogen 2000W

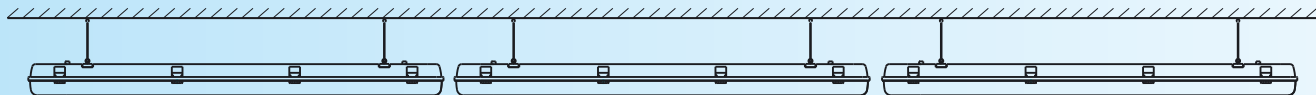
BUILT-IN LIGHTING FOR INDIRECT LIGHTING FUSIO

It represents a new concept in the lighting of office space. It is installed in the ceilings dimension 600x600. With its unique indirect system, it ensures a comfortable and original illumination of space. It is made of steel sheet painted in standard white color.



| Code number | Power W | A (mm) | B (mm) | L (mm) | h (mm) | Weight kg |
|-------------|---------|--------|--------|--------|--------|-----------|
| 3900360 | 2x36W | 598 | 598 | 554 | 184 | 3,8 |

WATERPROOF LED OR FLUORESCENT LAMP

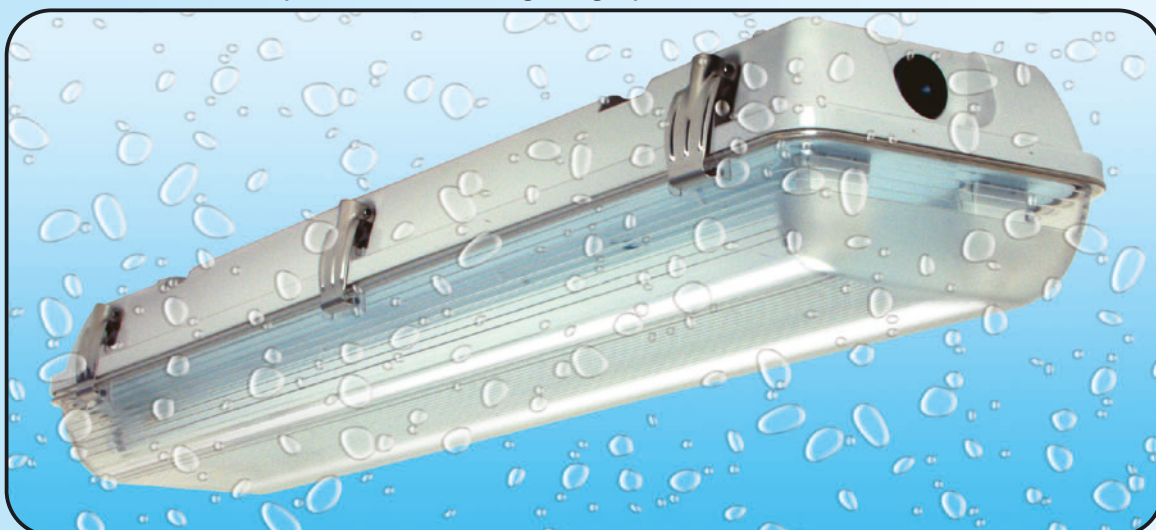


Stainless steel tensioner for watertight protector - at the top



Stainless steel tensioner for watertight protector - sideways

Lamps are used for lighting special locations where



the influence of moisture and dust is pronounced

BENEFITS OF LED VARIANTS



WATERTIGHT LAMPS:

LED light with power supply of 18W
(Output flux about 1800 lm)

Lamp in FLUO 36W variants
(Output flux about 1800 lm)

Annual consumption with an average lamp operation of about 8 hours per day

LED lamp: approx. 60 kW / h

FLUO light source: about 120 kW / h

To this savings, it is necessary to add the purchase and installation of 10 fluo tubes with a power of 18 W due to the five time longer service life of **LED** lamps

Saving for 5 years is $300 \text{ kW / h} \times 8 \text{ din.} = 2400 \text{ din.} + 2000 \text{ din.}$
for the procurement and installation of a dozen FLUO pipes

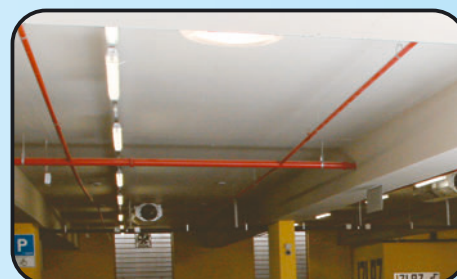
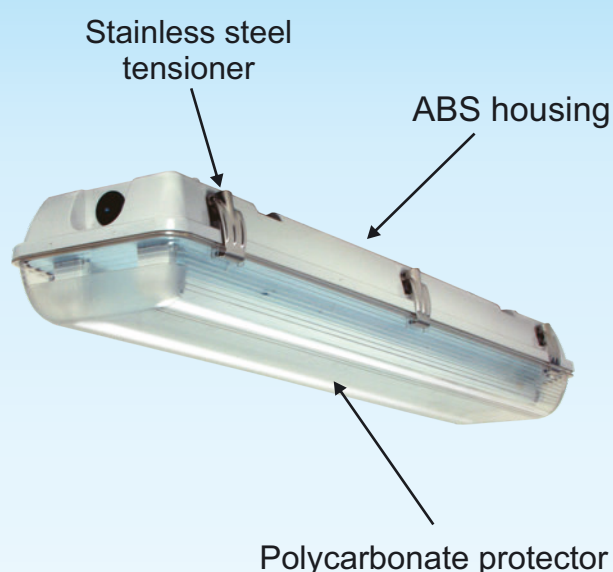
LED light source has no harmful blinking as fluorescent

DESCRIPTION:

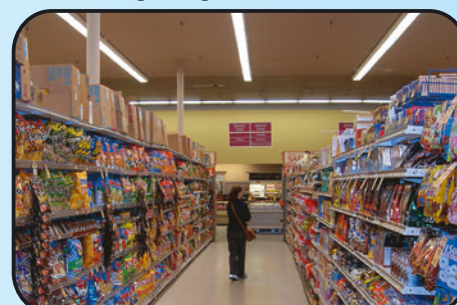
The luminaire is intended for illumination of industrial buildings, especially where there is a strong influence of moisture and dust. The lamp body is made of ABS. Buckles for attaching protectors are made of stainless steel.

The polyurethane spout is poured directly into the gutter on the body of the lamp. Polyamide inserts provide IP65 protection. The protector is made of transparent poly carbonate, which is UV stabilized (which means that there are no major changes in the material due to the action of the ultra-violet part of the spectrum of light radiation). The steel sheet seal is plasticized in white and UV stabilized.

The lamp is supplied in LED or fluo variants.

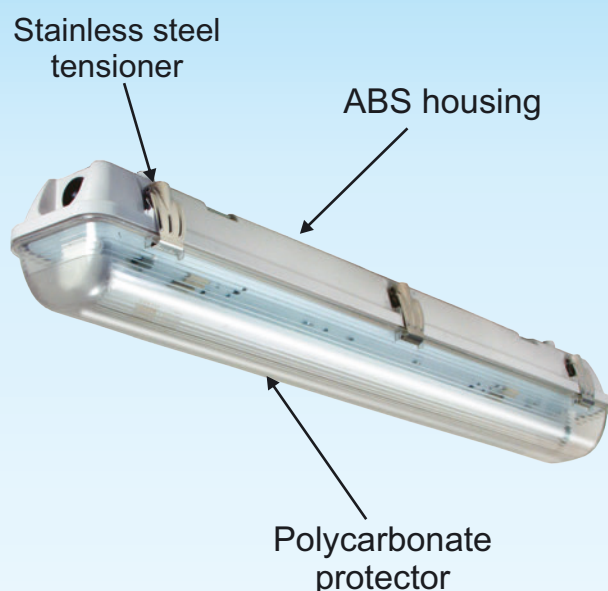


garages, farms



shops, interiors, passages

| Code number | Max. power (W) | Protection degree | Dimensions (mm) | Weight (kg) |
|-------------|----------------|-------------------|-----------------|-------------|
| 3910218 | 2x18W | IP 65 | 670x165x75 | 1,46 |



basement, boiler room



kitchens, slaughterhouses

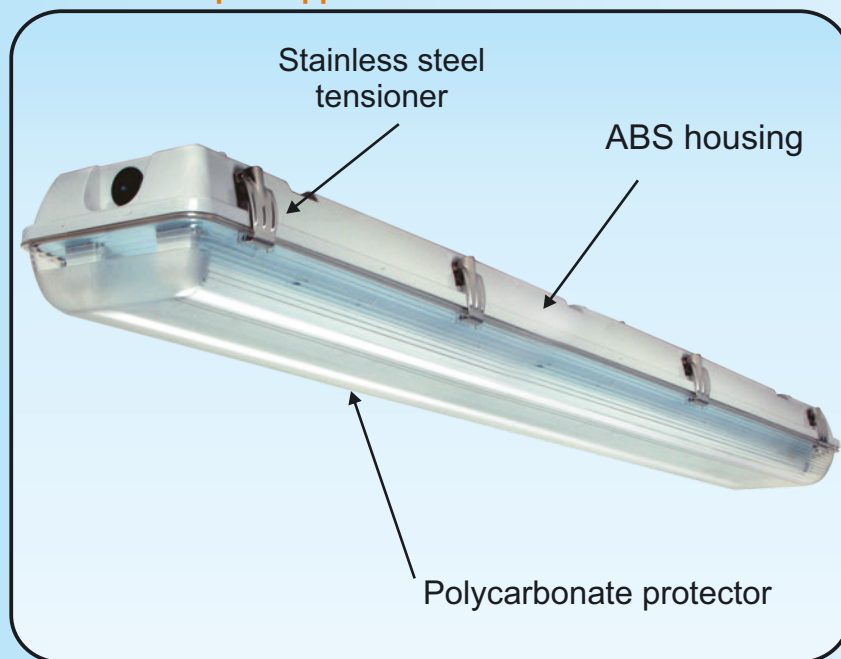
| Code number | Max. power (W) | Protection degree | Dimensions (mm) | Weight (kg) |
|-------------|----------------|-------------------|-----------------|-------------|
| 3910118 | 1x18W | IP 65 | 670x105x75 | 0,9 |

DESCRIPTION

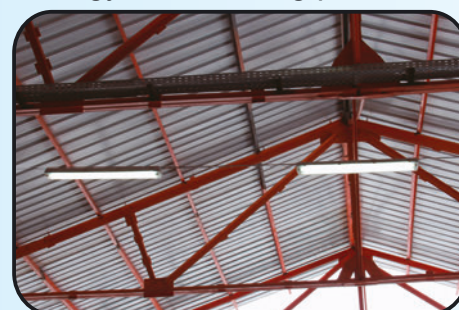
The luminaire is intended for illumination of industrial buildings, especially where there is a strong influence of moisture and dust. The lamp body is made of ABS. Buckles for attaching protectors are made of stainless steel.

The polyurethane spout is poured directly into the gutter on the body of the lamp. Polyamide inserts provide IP65 protection. The protector is made of transparent poly carbonate, which is UV stabilized (which means that there are no major changes in the material due to the action of the ultra-violet part of the spectrum of light radiation). The steel sheet seal is plasticized in white and UV stabilized.

The lamp is supplied in LED or fluo variants.

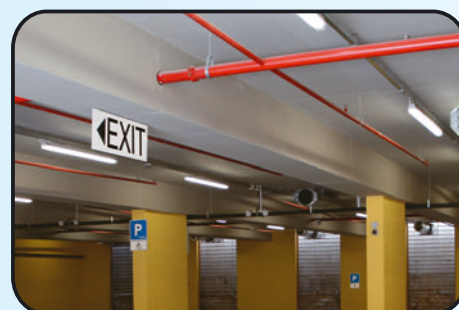
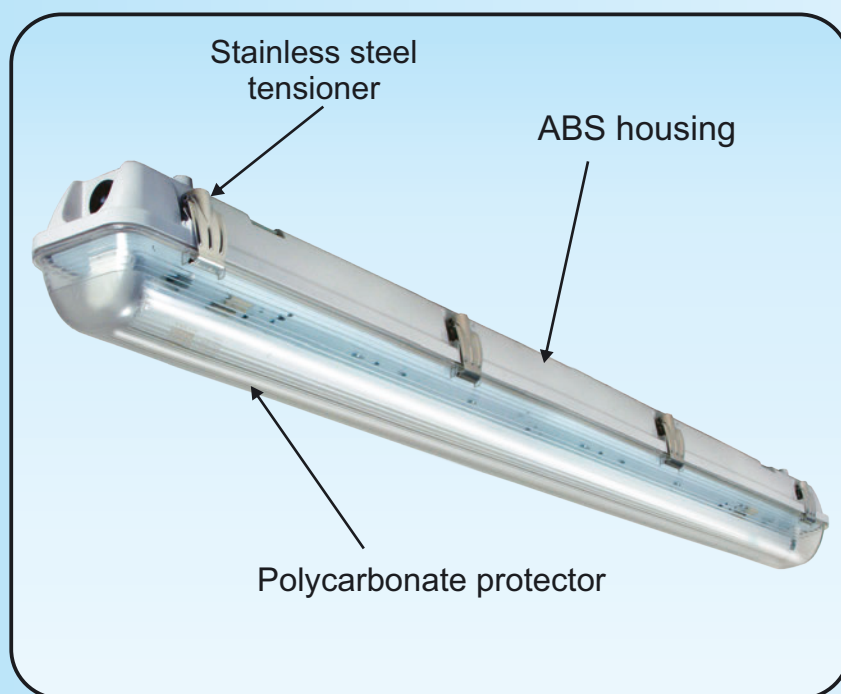


gym, swimming pools

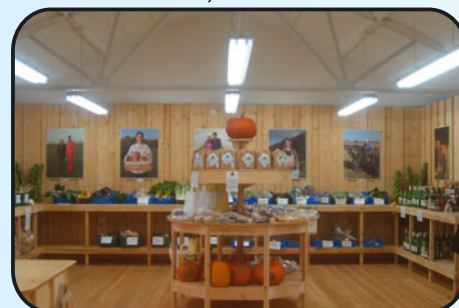


workshops

| Code number | Max. power (W) | Degree of protection | Dimensions (mm) | Weight (kg) |
|-------------|----------------|----------------------|-----------------|-------------|
| 3910236 | 2x36W | IP 65 | 1270x165x75 | 2.3 |



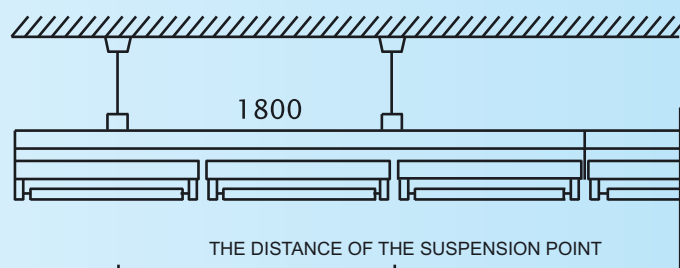
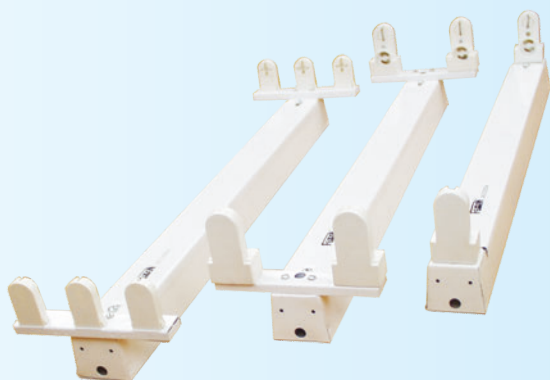
warehouses, industrial stores



food industry

| Code number | Max. power (W) | Degree of protection | Dimensions (mm) | Weight (kg) |
|-------------|----------------|----------------------|-----------------|-------------|
| 3910136 | 1x36W | IP 65 | 1270x105x75 | 1,65 |

FLUORESCENT LAMPS WITH AND WITHOUT SENILE



Open type Fluo fittings are manufactured in three standard dimensions: 20W-618mm, 40W-1228mm, 65W-1528mm.

All three species work for one, two and three fluorescent tubes with and without proper senile. The lamp housing is made of profiled decapitated sheet coated with white baked lacquer with complete wiring according to the appropriate JUS and IEC regulations. Luminaires are made to protect the IP 20 and enable fast and easy installation.

They are intended for general purpose facilities: hospitals, corridors, passages, warehouses and all other places where the lamps are not exposed to the great influence of dust and moisture.

Fluorescent lamps can also be mounted in a linear system that allows quick assembly and is universally applicable.

The line system consists of the upper part (housing of a certain length) and the lower part (a lamp housing of a certain electrical power).

Benefits are: Fast installation, long service life and easy maintenance. The line system is designed to protect the IP 20 and is recommended for use in factories, halls, warehouses and spaces where the lamps are not exposed to the great influence of dust and liquids. If the space is over 5 m high, we recommend the use of a reflector that directs the light beam from the height.

| Code number | Type | Power W |
|-------------|-----------|---------|
| 3901020 | FOS-120 | 1x2 |
| 3902020 | FOS-220 | 2x20 |
| 3903020 | FOS-320 | 3x20 |
| 3901040 | FOS-140 | 1x40 |
| 3902040 | FOS-240 | 2x40 |
| 3903040 | FOS-340 | 3x40 |
| 3901012 | reflector | 20 |
| 3901015 | reflector | 40 |

CONNECTION TERMINAL FOR PUBLIC LIGHTING POLES FRS 10.4 AND FRS 10.6

It is used for connecting conductors in public lighting poles. The casing is made of high quality transparent polycarbonate self-extinguishing V0 and resistant to heating up to 110°C without deformation. The contacts can be made of a brass profile that allows simultaneous joining of copper and aluminum conductors, or from an aluminum profile that allows the connection of only aluminum conductors.



| Code number | Type | Clamping range | Number of connecting conductors | Package pcs | Weight kg/pcs |
|-------------|-------------|--------------------------|---------------------------------|-------------|---------------|
| 3900804 | FRS 10.4-MS | Al (10-35) / Cu (1,5-25) | 4 | 100 | 0,055 |
| 3900805 | FRS 10.4-Al | Al (10-35) / Al (10-35) | 4 | 100 | 0,045 |
| 3900806 | FRS 10.6-MS | Al (10-35) / Cu (1,5-25) | 6 | 100 | 0,075 |
| 3900807 | FRS 10.6-Al | Al (10-35) / Al (10-35) | 6 | 100 | 0,065 |

DASHBOARD FOR PUBLIC LIGHTING POLES PPR IV

They are made of special polyester resin. It is embedded in public lighting poles.

Specifications:

Rated voltage: 450 V

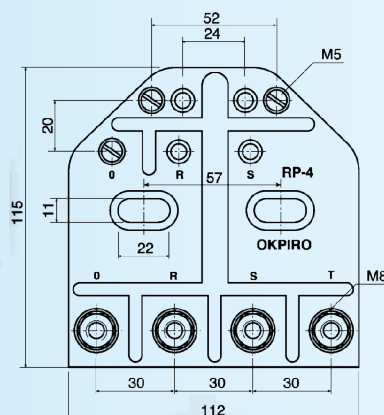
Rated fuse current: max. 16 A

Number of fuses: 2

Number of connecting cables: 4

Endurance temperature: -50 to 130°C

Code number: 3900374



DASHBOARD FOR PUBLIC LIGHTING POLES PPROV III

They are made of special polyester resin. It is built into public lighting pillars of larger dimensions and a larger cross section of power cables.

Specifications:

Rated voltage: 450 V

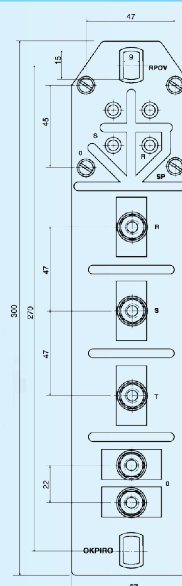
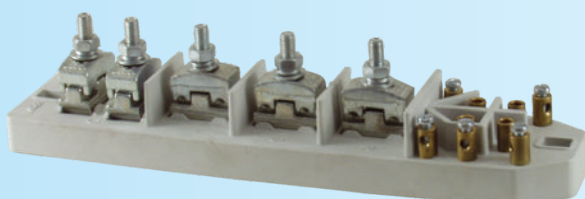
Rated fuse current: max. 16 A

Number of fuses: 2

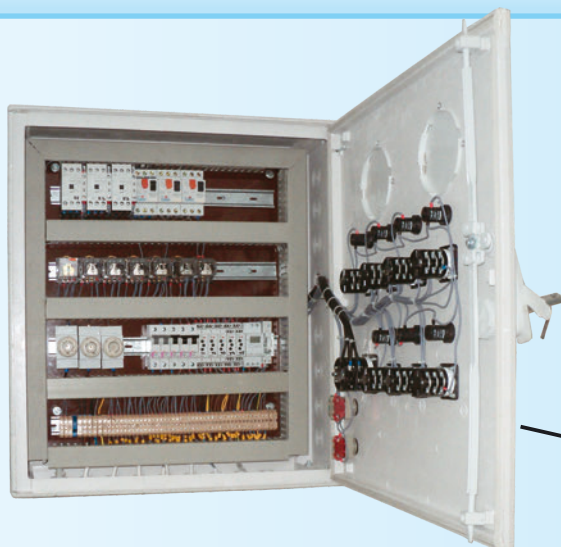
Number of connecting cables: 4

Endurance temperature: -50 to 130°C

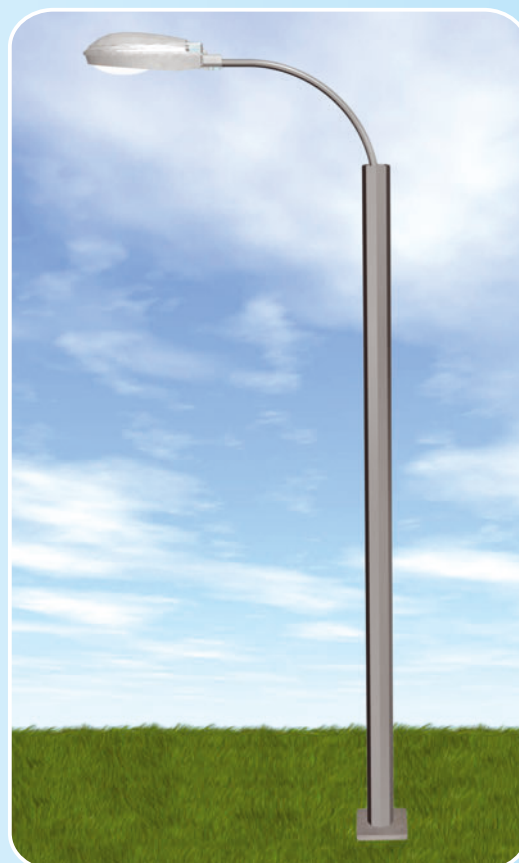
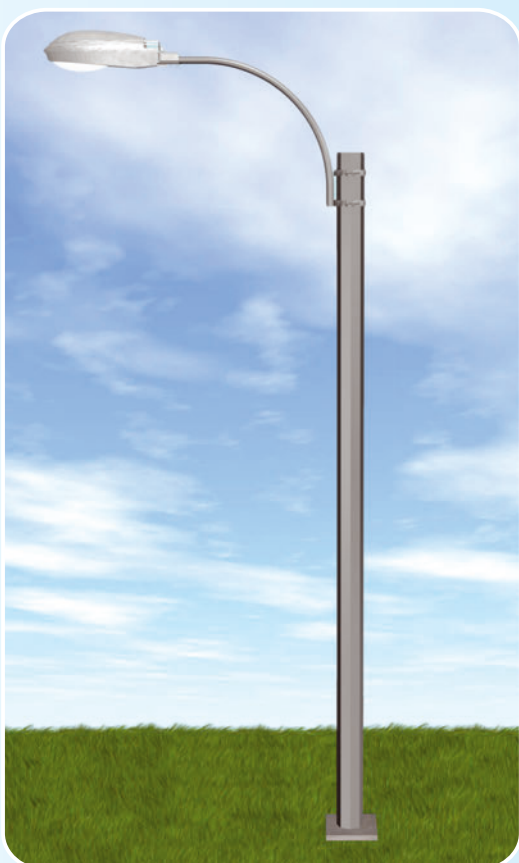
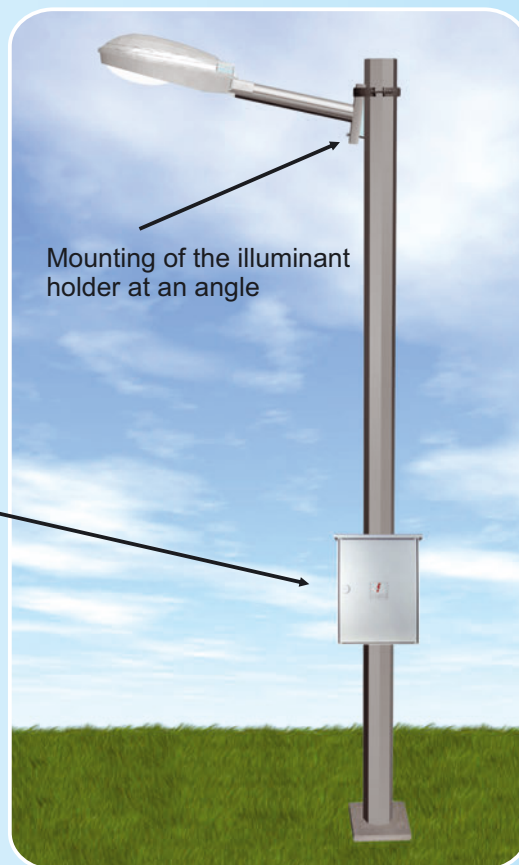
Code number: 3900383



CABINETS FOR PUBLIC LIGHTING

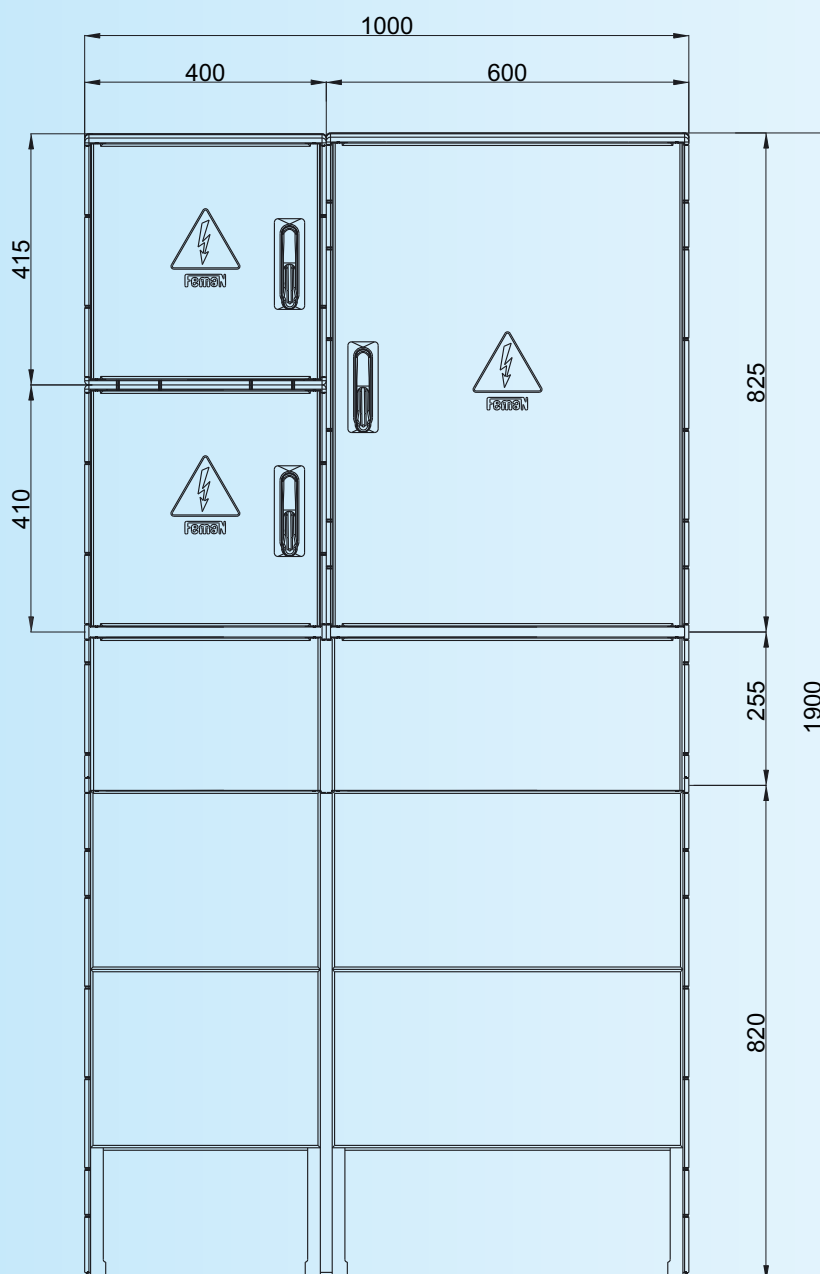


Cabinets for public lighting are made of pressed polyester reinforced with glass fibers. They are resistant to static and dynamic loads, UV rays, self-extinguishing and have high dielectric strength. We produce them in IP44, IP54 or IP65 protection, depending on customer's request. For more details, please refer to our main catalog.



FREESTANDING DISTRIBUTION CABINET OF PUBLIC LIGHTING WITH INTEGRATED KPK

The stand-alone public lighting distribution cabinet with an integrated cable connection box is designed for measuring the consumption, management and power supply of public lighting.



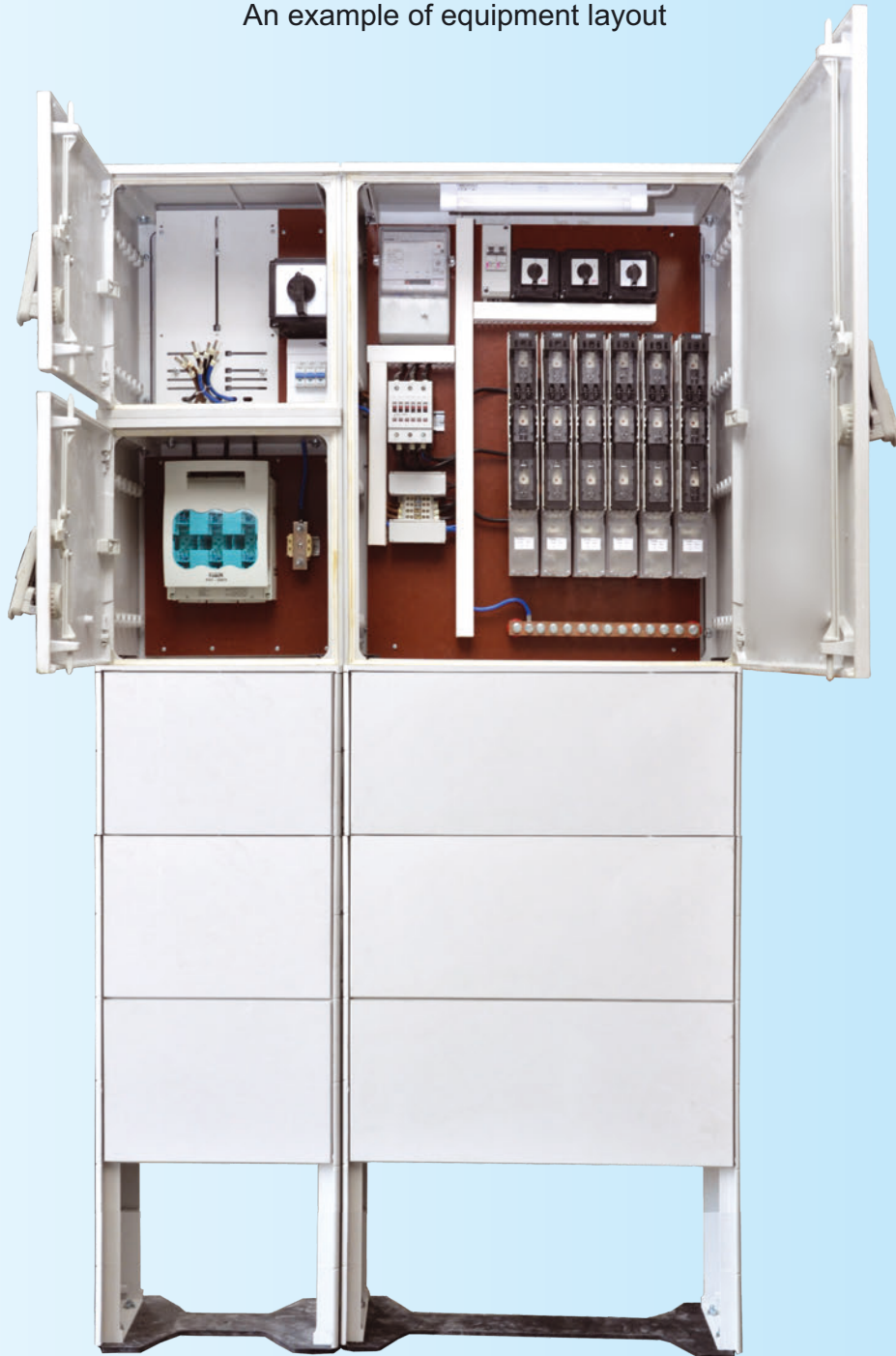
| Code number | Type |
|-------------|------------------------------|
| 5708106 | ROJO-SSN 1000x825x300 V0 |
| 5708116 | ROJO-SSN 1000x825x300 EMPTY |
| 5708206 | ROJO-SSN 1000x1900x300 V0 |
| 5708216 | ROJO-SSN 1000x1900x300 EMPTY |

The cabinet is divided into three parts, and each part has a special door. The right part of the cabinet is used for the installation of control and public lighting power. The upper left part of the cabinet serves to accommodate installation measurements of lighting consumption. The lower left part of the cabinet serves to accommodate the connection of the main power cable.

The cabinets are made of pressed glass fiber reinforced polyester. They are resistant to impacts, bending, moisture, dust, high and low temperatures, and have high dielectric strength. They are opposed to atmospheric influences as well as to UV radiation.

FREESTANDING DISTRIBUTION CABINET OF PUBLIC LIGHTING WITH INTEGRATED KPK

An example of equipment layout



Specifications:

Color RAL 7035

Degree of mechanical protection IP 54

Impact resistance IK 10

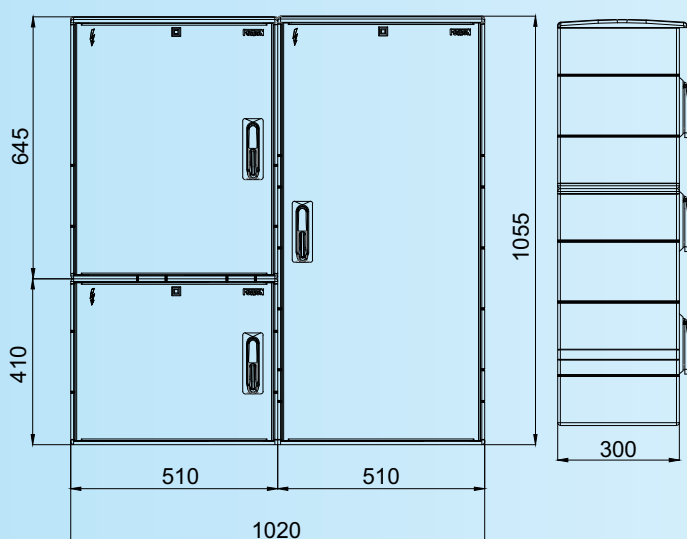
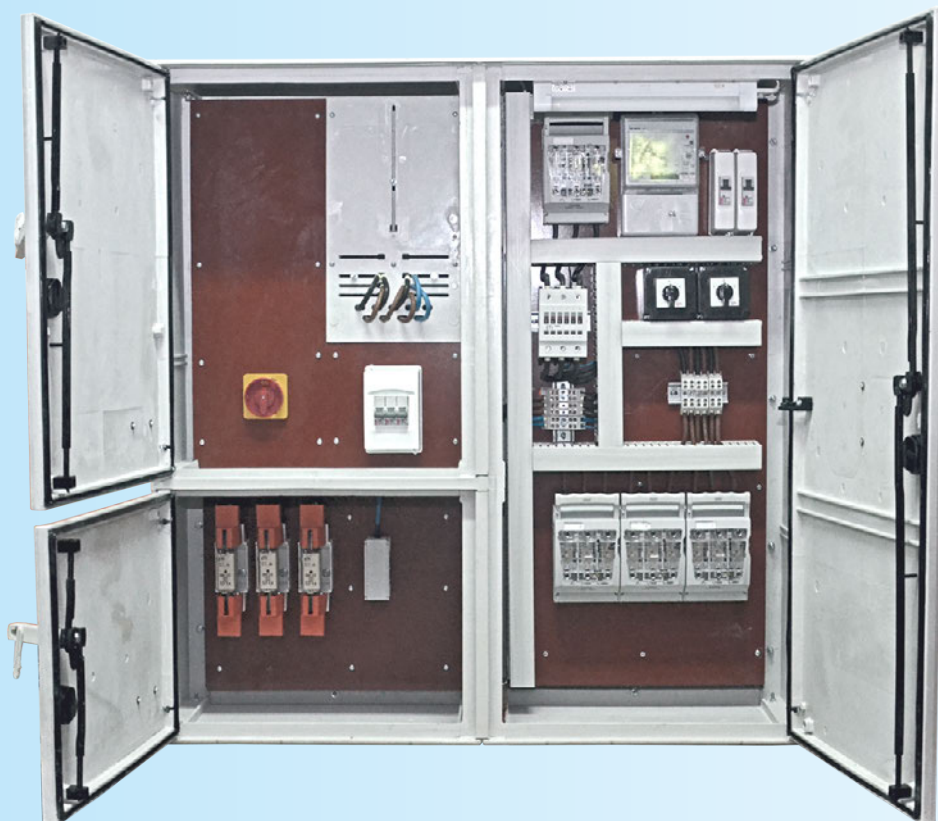
Protection class II

Resistance to atmospheric effects UV is stable

Thermal resistance -40°C to + 200°C

FREESTANDING DISTRIBUTION CABINET WITH INTEGRATED KPK ROJO3 1020x1055x300

The stand-alone public lighting distribution cabinet with an integrated cable connection box is designed for measuring the consumption, management and power supply of public lighting.



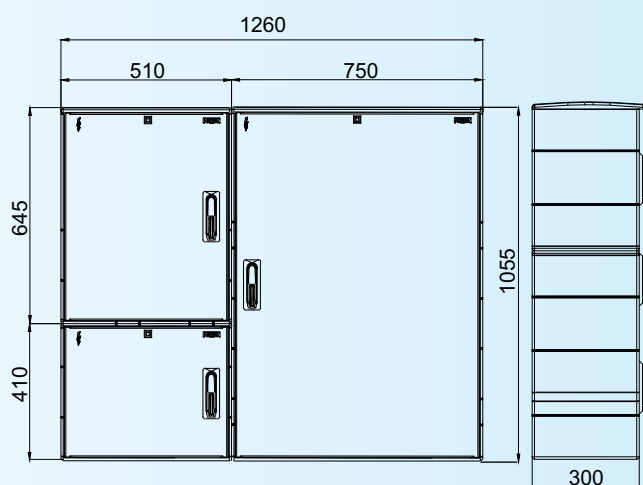
| Code number | Type |
|-------------|---------------------------|
| 5708000 | ROR3-S 1020x1055x300 P |
| 5708001 | ROR3-S 1020x1055x300 PE |
| 5708002 | ROR3-S 1020x1055x300 SS |
| 5708003 | ROR3-SSU 1020x2110x300 P |
| 5708004 | ROR3-SSU 1020x2110x300 SS |

The cabinet is divided into three parts, and each part has a special door. The right part of the closet is used for the installation of control and public lighting power. The upper left part of the cabinet serves to accommodate installation measurements of lighting consumption. The lower left part of the cabinet serves to accommodate the connection of the main power cable.

The cabinets are made of pressed glass fiber reinforced polyester. They are resistant to impacts, bending, moisture, dust, high and low temperatures, and have high dielectric strength. They are resistant to atmospheric influences as well as UV radiation.

FREESTANDING DISTRIBUTION CABINET WITH INTEGRATED KPK KPK ROJO6 1260x1055x300

A stand-alone distribution box with an integrated cable terminal box is designed to measure power consumption, control and power supply.



| Code number | Type |
|-------------|---------------------------|
| 5708006 | ROR6-Z 1260x1055x300 P |
| 5708007 | ROR6-Z 1260x1055x300 PE |
| 5708008 | ROR6-Z 1260x1055x300 SS |
| 5708005 | ROR6-SSU 1260x2110x300 P |
| 5708009 | ROR6-SSU 1260x2110x300 SS |

The cabinet is divided into three parts, and each part has a special door. The right part of the closet is used for the installation of control and public lighting power. The upper left part of the cabinet serves to accommodate installation measurements of lighting consumption. The lower left part of the cabinet serves to accommodate the connection of the main power cable.

The cabinets are made of pressed glass fiber reinforced polyester. They are resistant to impacts, bending, moisture, dust, high and low temperatures, and have high dielectric strength. They are opposed to atmospheric influences as well as to UV radiation.

Polyester distribution low voltage cabinet for pillar transformer station with rectifier energy cabinet and cabinet for public lighting connection.



The cabinet is made of pressed non-combustible glass fiber reinforced polyester. It is resistant to bumps, bending and has a high dielectric strength. It is resistant to atmospheric influences, as well as UV radiation. It provides very good mechanical and electrical protection. It belongs to high insulation cabinets. The use is easy and without additional maintenance, it is resistant to high and low temperatures. Very easy and simple installation and installation.

It is produced in three variants:

- Distribution cabinet STS 100
- Distribution box STS 250
- Distribution cabinet STS 400

The distribution cabinet is, as a rule, mounted on the pillar or within the structure of the pillar so that manipulations with the switch and other elements in the cabinet are carried out from the ground. The distribution cabinet STS 250 and STS 400 is permitted as a separate freestanding distribution cabinet, mounted separately in the vicinity of a pillar at a suitable location that allows the most favorable low voltage circuit breaker made of pressed glass fiber reinforced polyester.

The reactive power compensation cabinet works with special doors. It is recommended to compensate reactive power in STS 250 (condenser 20 breakdown) and STS 400 (condenser 20 defects). Connection is made using a single core or three-core cable, cross-section of conductor 25 mm².

The public lighting distribution cabinet works with special doors.

| Code number | Type |
|-------------|-------------------------------|
| 5089510 | ROTSKO-100-S 1020x1055x300 P |
| 5089515 | ROTSKO-100-S 1020x1055x300 OP |
| 5089720 | ROTSKO-250-S 1020x1055x300 P |
| 5089725 | ROTSKO-250-S 1020x1055x300 OP |
| 5089820 | ROTSKO-400-S 1020x1055x300 P |
| 5089825 | ROTSKO-400-S 1020x1055x300 OP |

STAINLESS STEEL BAND IN PLASTIC BOX

| Code number | A mm | Thickness mm | Material (stainless steel) | Breaking load (N) | Weight of the roll in the cassette | Package m |
|-------------|------|--------------|----------------------------|-------------------|------------------------------------|-----------|
| 4710009 | 9 | 0,55 | 1,4371 | 4100 | | 20 |
| 4710013 | 13 | 0,70 | 1,4371 | 7100 | 2,6kg/pc | 20 |
| 4710019 | 19 | 0,70 | 1,4371 | 10600 | 3,7kg/pc | 20 |

It is used for bonding equipment to the posts. On request, we also supply bands of other sizes and lengths. **Box contains 30 pcs. of screws with nuts adapted to band that is supplied.**

WATERPROOF STAINLESS STEEL BAND

| Code number | A mm | Thickness mm | Material (stainless steel) | Breaking load (N) | Weight of the roll in the cassette | Package m |
|-------------|------|--------------|----------------------------|-------------------|------------------------------------|-----------|
| 4710075 | 13 | 0,70 | 1,4371 | 7100 | 3,5kg/pc | 50 |
| 4710080 | 19 | 0,70 | 1,4371 | 10600 | 5,1kg/pc | 50 |

PERFORATED GALVANIZED BAND WITH ROUND HOLES

| Code number | A mm | B mm | C mm | Thickness mm | Breaking load (N) | Weight of the roll in the cassette | Package m |
|-------------|------|------|------|--------------|-------------------|------------------------------------|-----------|
| 4710120 | 20 | 12 | 6 | 1,0 | 4200 | 3,1kg/pc | 20 |
| 4710125 | 25 | 12 | 6 | 1,0 | 5400 | 3,5kg/pc | 20 |

It is used for fixing equipment on poles using the appropriate galvanized bolts with nuts and washers. On request, we also supply bands of other sizes and lengths. The sharp edges in accordance with DIN were torn on the tape.

Box contains 30 pcs. of screws with nuts adapted to band that is supplied.

PERFORATED GALVANIZED ELLIPTICAL BAND 20m

| Code number | A mm | B mm | C mm | Thickness mm | Breaking load (N) | Weight of the roll in the cassette | Package m |
|-------------|------|------|------|--------------|-------------------|------------------------------------|-----------|
| 4710130 | 20 | 24,3 | 6,2 | 1,0 | 4000 | 2,7kg/pc | 20 |
| 4710131 | 20 | 24,3 | 8,2 | 1,0 | 3400 | 2,5kg/pc | 20 |

Flexible, lightweight, flexible, universal. It is used to fix the equipment on the pillars by means of a suitable galvanized screw with a nut and a washer. It is very suitable for hanging installation pipes for water, sewage and heating.

On request, we also supply bands of other sizes and lengths.

The sharp edges are deburred on the band in accordance with DIN.

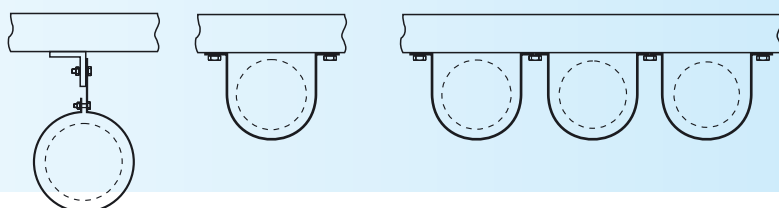
Box contains 30 pcs. of screws with nuts adapted to band that is supplied.

PERFORATED GALVANIZED ELLIPTICAL BAND 5m

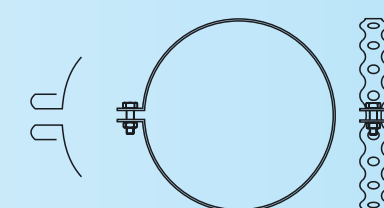
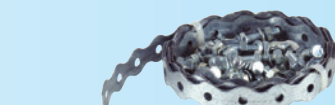
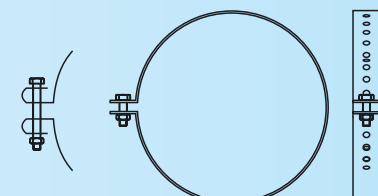
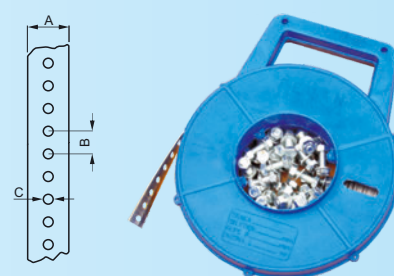
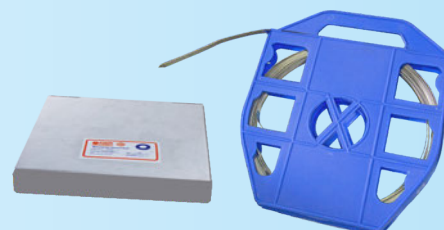
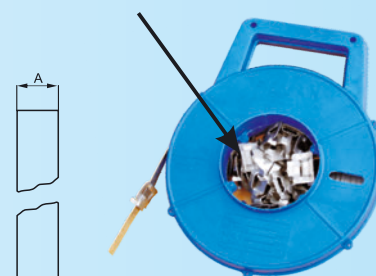
| Code number | A mm | B mm | C mm | Thickness mm | Breaking load (N) | Weight of the roll in the cassette | Package m |
|-------------|------|------|------|--------------|-------------------|------------------------------------|-----------|
| 4710135 | 20 | 24,3 | 6,2 | 1,0 | 4000 | 0,70kg/pc | 5 |
| 4710136 | 20 | 24,3 | 8,2 | 1,0 | 3400 | 0,87kg/pc | 5 |

**TOP MULTIFUNCTIONAL BAND FOR INSTALLERS
THE FIRST AND ONLY MANUFACTURER IN SERBIA**

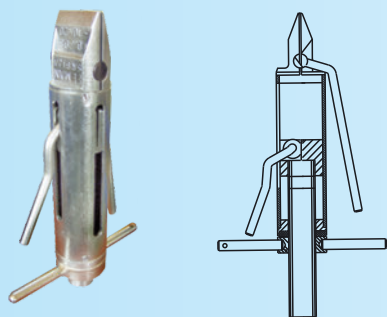
Suitable for hanging and fixing pipes of all types and dimensions



Transparent cover



STAINLESS STEEL BAND TENSIONER



It is used for tightening and trimming of a band (steel clamp), which secures the equipment to the pillars.

This is a very reliable and convenient way for quick and easy fixing of consoles, stands, supports, lamps, shields, tables, etc. on metal, wooden and concrete pillars, whereby permanent high tensile strength is achieved without drilling and welding.

This system has been in operation for a long time.

Packing: 1pcs
Weight: 1.8 kg / pc
Code number: 4710000

STAINLESS STEEL BAND TENSIONER FZT



It is used for tightening and trimming of a band (steel clamp), which secures the equipment to the pillars.

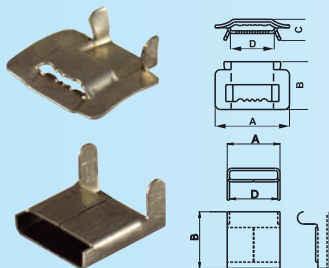
This is a very reliable and convenient way for quick and easy fixing of consoles, stands, supports, lamps, shields, tables, etc. on metal, wooden and concrete pillars, whereby permanent high tensile strength is achieved without drilling and welding.

This system has been in operation for a long time.

Packing: 1pcs
Weight: 1.8 kg / pc
Code number: 4710002

CLIPS FOR STAINLESS BAND

A13
A19

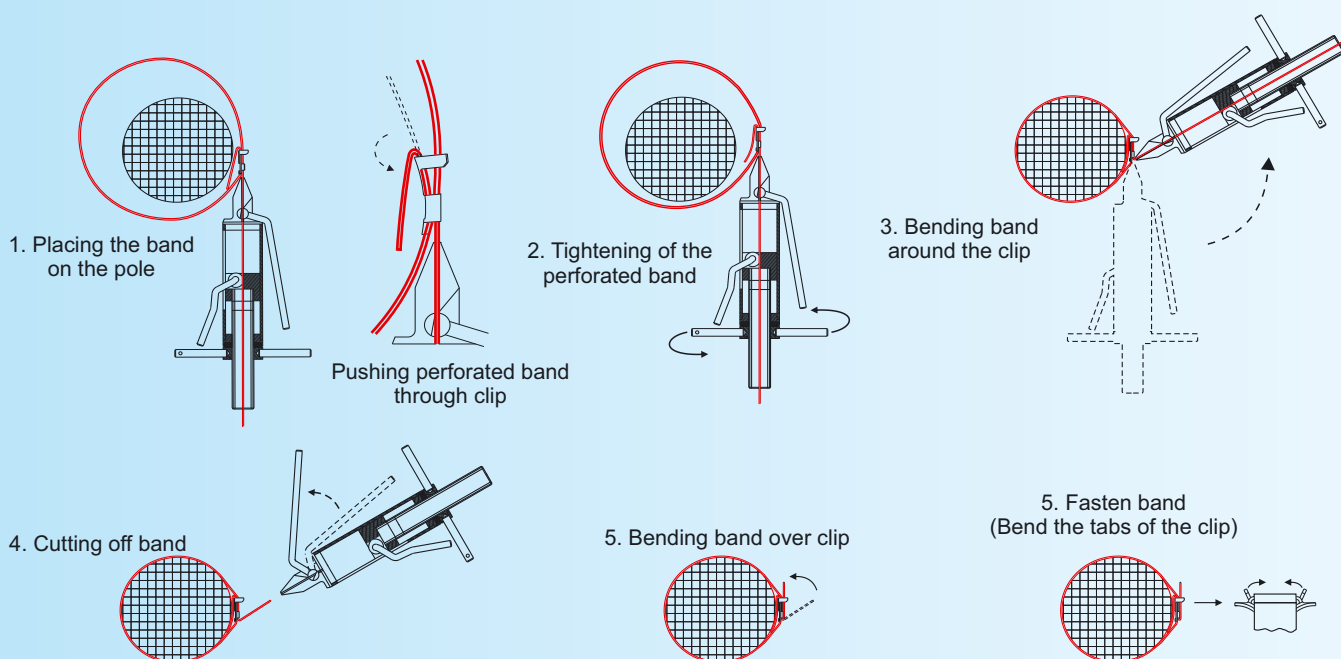


A20

| Code number | Type | A mm | B mm | C mm | D mm | Package pcs | Weight kg / 100 pcs. |
|-------------|------|------|------|------|------|-------------|----------------------|
| 4710213 | A13 | 32 | 27 | 10 | 16 | 100 | 1,0 |
| 4710219 | A19 | 42 | 27 | 12 | 25 | 100 | 1,2 |
| 4710320 | A20 | 23.2 | 25 | 14 | 21.2 | 150 | 0.8 |

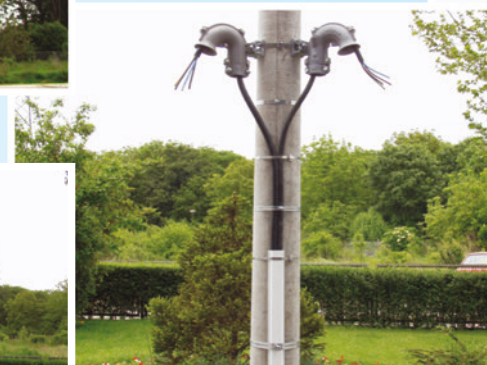
It is used to fix band to the pillars

PROCEDURE FOR STRAINING A STAINLESS STEEL BAND



TIGHTENING EQUIPMENT

Examples of various binding elements with perforated bands to steel and concrete posts



*Quick, simple, safe, permanent,
without welding or drilling with expensive tools*



Group photo of 300 employees in FEMAN in 2015



Technical presentation of the company "Feman" for it's 30-th anniversary celebration in Hotel "Ravni Gaj" Knić - September 2015



Part of transport and work execution machinery



Transport vehicles owned by "Feman" company for fast delivery of goods



JA - 020 - NW



JA - 024 - AU



JA - 040 - DG



JA - 012 - ĆY



JA - 020 - NŽ



JA - 034 - HE



JA - 042 - CB



JA - 026 - NW

Prefabricated baskets and a crane owned by the company "Feman" for execution of works on electrical networks 0.4, 10, 20 and 35kV. Feman owns 30 professionally trained installers.



УПРАВЛЕНИЕ ОСВЕЩЕНИЕМ

FemaN AS-1

Технические характеристики:

- Астрономический коммутационный счетчик
Включение и отключение в соответствии с географической шириной и долготой и соответствующим часовым поясом
- WiFi interface:
С поддержкой веб сервера ради показа статуса и параметризации устройства
- Возможные комплектации о коммуникация с помощью интерфейса Rs485 для подключения счетчика электроэнергии о 2G/3G/4G модули коммуникации с центром дистанционного управления
- Контакт для подключения Управляющего реле



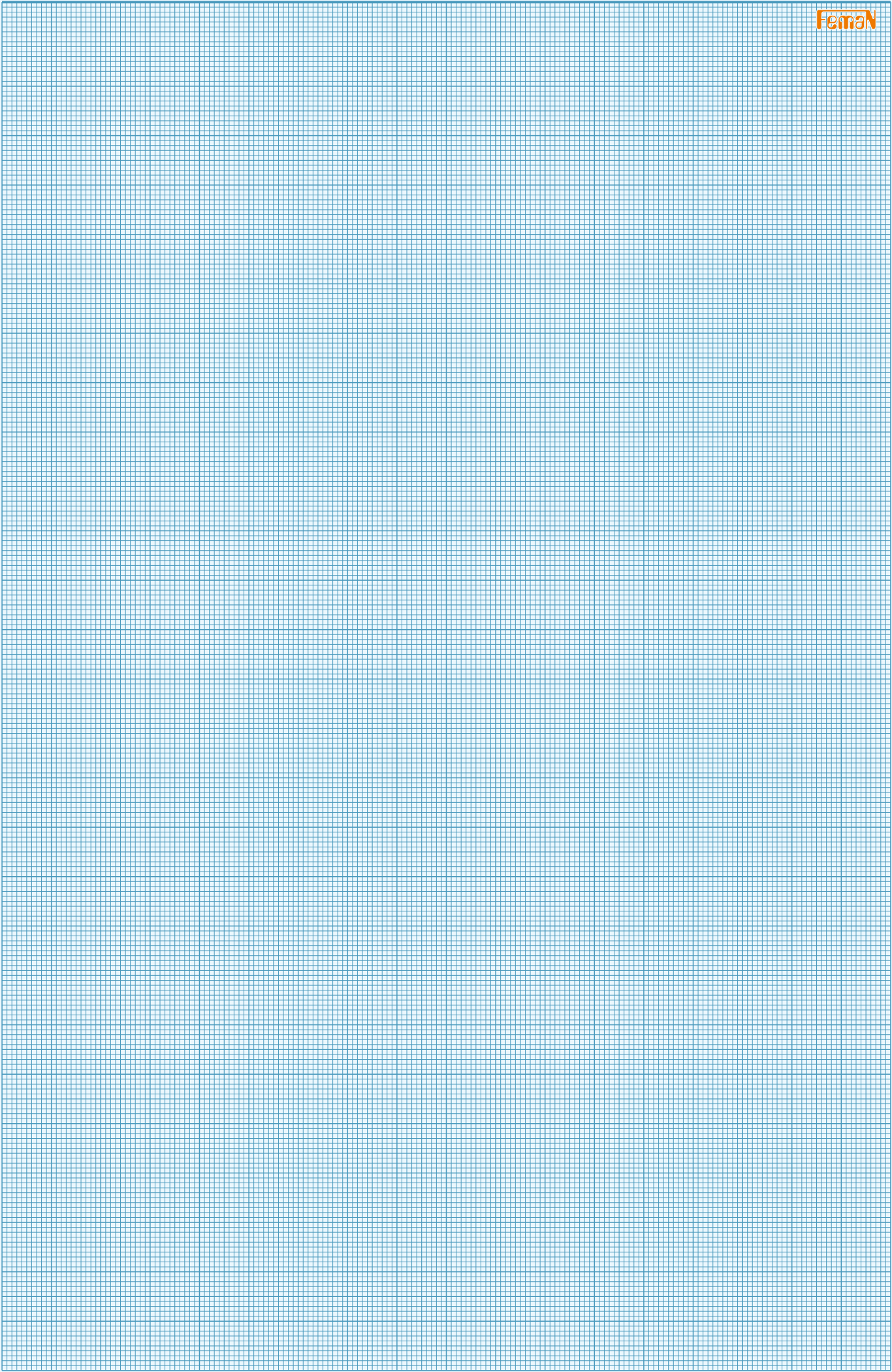
Скриншот веб-интерфейса FemaN AS-1 в браузере. Адресная строка: 192.168.1.139.

| | | | |
|------------|---------------------|--|------------------|
| Сер. номер | 788A4BA4AE30 | | |
| Время | 2019.05.24 14:14:07 | | 05/24/2019 14:14 |

☒ DST
☒ AUTO

| Время | Время | |
|-----------|------------------|---------------------------------------|
| Выключен | 2019.05.24 05:00 | <input type="button" value="Измени"/> |
| Включен | 2019.05.24 19:56 | |
| Состояние | | |

"FEMAN" D.O.O. www.feman.co.rs



SADRŽAJ

| | |
|--|----------------|
| Feman Reference | 5 |
| Perun 1 | 8 |
| Perun 2 | 9 |
| Perun 3 | 10 |
| Novi modeli LED svetiljki | 11 |
| Lada | 12 |
| Ulično-parkovska LED svetiljka Perun 1-A | 13 |
| Ulično-parkovska svetiljka LED Simple 2 | 13 |
| Štedoled LED plafonjera | 14 |
| LED Kristal 1 | 15 |
| LED Kristal 2 smart - ulična svetiljka | 16 |
| LED Kristal 3 smart - ulična svetiljka | 17 |
| LED Simple | 18 |
| LED Zvono | 19 |
| LED Urbana 1 | 20 |
| Led Kristal 4 | 21 |
| Ulična svetiljka sa solarnim panelom | 22 |
| Led svetiljke sa daljinskom ili programiranom kontrolom osvetljenja | 23 |
| FRL - Led reflektori (30W, 50W I 80W) | 24 |
| FRL - Led reflektori (100w, 150w I 200W) | 25 |
| Euro Kristal 1 | 26 |
| Euro Kristal 2 | 28 |
| Euro Kristal 3 | 30 |
| Svetiljke Euro Kristal 1, Euro Kristal 2 I Euro Kristal 3 | 32 |
| Euro Kristal 11 | 36 |
| Euro Kristal 22 | 37 |
| Fopal 1 | 38 |
| Tehničke karakteristike Fopal 1 svetiljke | 39 |
| Svetiljka za urbano osvetljenje | 40 |
| Fluo svetiljka za urbano osvetljenje | 41 |
| Čelični nosači za svetiljke - lire | 42 |
| Čelični nosači za svetiljke - lire | 43 |
| Čelični stubovi | 44 |
| Segmentni cevni čelični stubovi | 45, 46, 47, 48 |
| Osmougaoni čelični stub sa završetkom Ø 48 | 50 |
| Osmougaoni čelični stub sa završetkom Ø 60 | 51 |
| Osmougaoni čelični stub sa završetkom Ø 78 | 52 |
| Og svetiljka - Ravna | 53 |
| Og svetiljka - Kosa | 53 |
| Natrijum - Živina svetiljka - Ravna | 53 |
| Natrijum - Živina svetiljka - Kosa | 53 |
| Nepromoćiva svetiljka - Kosa | 54 |
| Ulična stubna svetiljka sa prigušnicom Natrijum - Živa | 54 |
| Prigušnica PF-125w sa postoljem za živine sijalice | 54 |
| Senilo | 54 |
| Halogeni reflektor sa senzorom | 55 |
| Halogeni reflektor 200-500W | 55 |
| Stativi za reflektore | 56 |
| Halogeni reflektor - Pokretni | 56 |
| Reflektor za osvetljavanje bilborda, reklama | 57 |
| Reflektor za osvetljavanje bilborda, fasada | 58 |
| Reflektor za osvetljavanje fasada, manjih sportskih terena i velikih bilborda | 59 |
| Metal-Halogeni Reflektor 2000 W | 60 |
| Ugradna svetiljka za indirektno osvetljenje Fusio | 61 |
| Vodootporna LED ili fluorescentna svetiljka | 62, 63, 64 |
| Fluorescentne svetiljke sa i bez senila | 65 |
| Priključna ploča za stubove javne rasvete PPR IV | 66 |
| Priključna ploča za stubove javne rasvete PPROV III | 66 |
| Ormani za javnu rasvetu | 67 |
| Samostojeći razvodni orman JO osvetljenja sa integrisanim KPK | 68, 69 |
| Samostojeći razvodni orman sa integr. KPK ROJO3 1020x1055x300 | 70 |
| Samostojeći razvodni orman sa integr. KPK ROJO6 1260x1055x300 | 71 |
| Razvodni NN orman za STS sa kompenz. i poljem za osvetlj. ROSTS-KO 1530x1055x300 | 72 |
| Prohrom traka u plastičnoj kutiji | 73 |
| Vodootporne prohrom trake | 73 |
| Perforirana pocinkovana traka sa okruglim rupama | 73 |
| Perforirana elipsasta traka 20m | 73 |
| Perforirana pocinkovana elipsasta traka 5m | 73 |
| Zatezač prohrom trake | 74 |
| Zatezač prohrom trake Fzt | 74 |
| Žabica za prohrom traku | 74 |
| Postupak pri zatezanju prohrom trake | 74 |
| Oprema za pričvršćivanje | 72 |



PROGRAM OF PUBLIC-PRIVATE PARTNERSHIPS REPLACEMENT OF OLD LAMPS WITH NEW



- All kinds of electrical works - turnkey system -
- Calculations of LED lighting savings compared to other lighting systems -
- Designing and recording of cadastre with existing lighting -
- Development of public private partnership projects -
 - Design energy efficiency report -
 - Reconstruction of public lighting -
- Preparation of a financial feasibility studies -
 - Energy efficiency analysis -
 - Experience of over 35 years -

Factory "FEMAN" - Jagodina

Feman is the largest producer of cable connectors, electro materials, polyester measuring boxes, street and industrial LEDs, sodium and metal halogen lamps, heat pumps, solar collectors, tools and installation accessories in the Balkans.

Founder, owner and director is engineer Miodrag Nikolic, whose leadership abilities, work and dedication contributed to Feman's development in a medium-sized enterprise, which has over 270 employees and a wide array of over 2000 high-quality products. On a total surface of 15,000m², these products are manufactured in modern facilities: the development and construction of products, foundry, blacksmiths, locksmiths, punching, extrusion and plastic injection, pressing polyester, turning and milling, painting, galvanizing, tooling and assembly.

Our business currency is "Quality above all", which is proven by a large number of awards and recognitions, both at domestic and international fairs. The conquest of new products, their development and continuous improvement are led by a group of proven experts of different profiles. All products are manufactured in accordance with SRPS, IEC, EN and NFC standards, and the company has the ISO 9001 standard since 1996 and the ISO 14001 and OHSAS 18001 standards.

All our products pass the necessary testing and attestation, and a certain number from each series is examined in our internal laboratory, to ensure that the end user always gets a high quality and reliable product that is quickly and easily mounted. Thanks to the high quality, which has become synonymous with Feman products, our sales network extends across all five continents, and our accessories have also been found by customers in far-off Australia.



Roundabout at the entrance to Jagodina from Čuprija

Work with us and you will see truth of our motto.