

LED

D



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The Different Light™

LED CATALOGUE



Mediaset, "La sai l'ultima" programme
Set designed by Gaetano Castelli
Installed by Nova Impianti 99



S. Felice, district Milan – entrance drive - Nauto/IVELA recessed lights

LED



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The Different Light™

A new light in everyday life

Seeing clearly entails a series of advantages that do not impose changes in life style.

But they improve it in terms of comfort, economy and efficiency.

The "LED system" is an asset with a very long life-span: a 50,000-hour lifetime against the 1,000 hours provided by ordinary incandescent light bulbs.

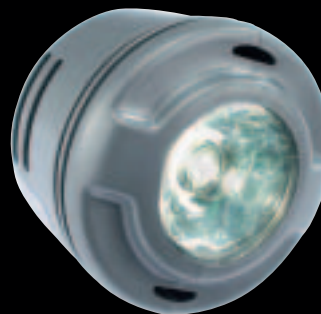
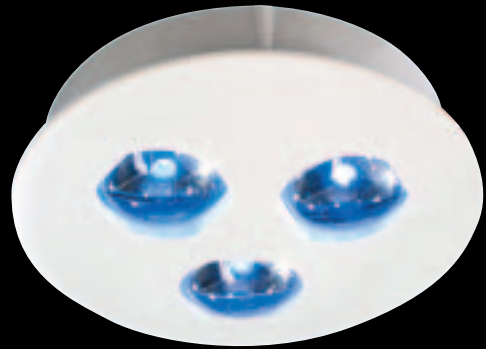
A double victory also in terms of the emitted heat: LEDs do not "heat" the objects they light!

But how much do they consume? Not very much, at all. A Minispot fitted with a one 1W LED featuring a 45° lens positioned 50 cm from a surface, provides around 200 Lux.

This is four times the output of a halogen bulb that is ten times as powerful.

Additionally, the power unit can be located over 40 meters away...

Another record statistic!



L I G H T I N G W I T H L E D S

LED



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The Different Light™

VLM has been designing, and manufacturing LED systems and their power supply units ever since this technology made its debut (1998).

The giant strides constantly being made in LED technology are truly amazing: the way it is developing can be compared to what is happening in the IT and electronic fields.

VLM reserves the right to make changes to the LED Systems shown here in the interests of guaranteeing its customers the very latest, most efficient products.

This catalogue is not a contractual document.

Caution: only the use of VLM power units guarantees the VLM LED System will work properly.



LEDs in brief

LEDs are light-emitting diodes made of semiconductor materials through which current passes through.

They work for up to 100,000 hours, enabling vast reduction of maintenance costs.

They are much more efficient, more so than all incandescent light bulbs and most halogen bulbs.

They do not produce forward heat or fade the objects they illuminate and, as they do not emit IR or UV rays, you see colours exactly as they are at daylight.

They are instant on with no delay.

The lights can be dimmed without altering colours.

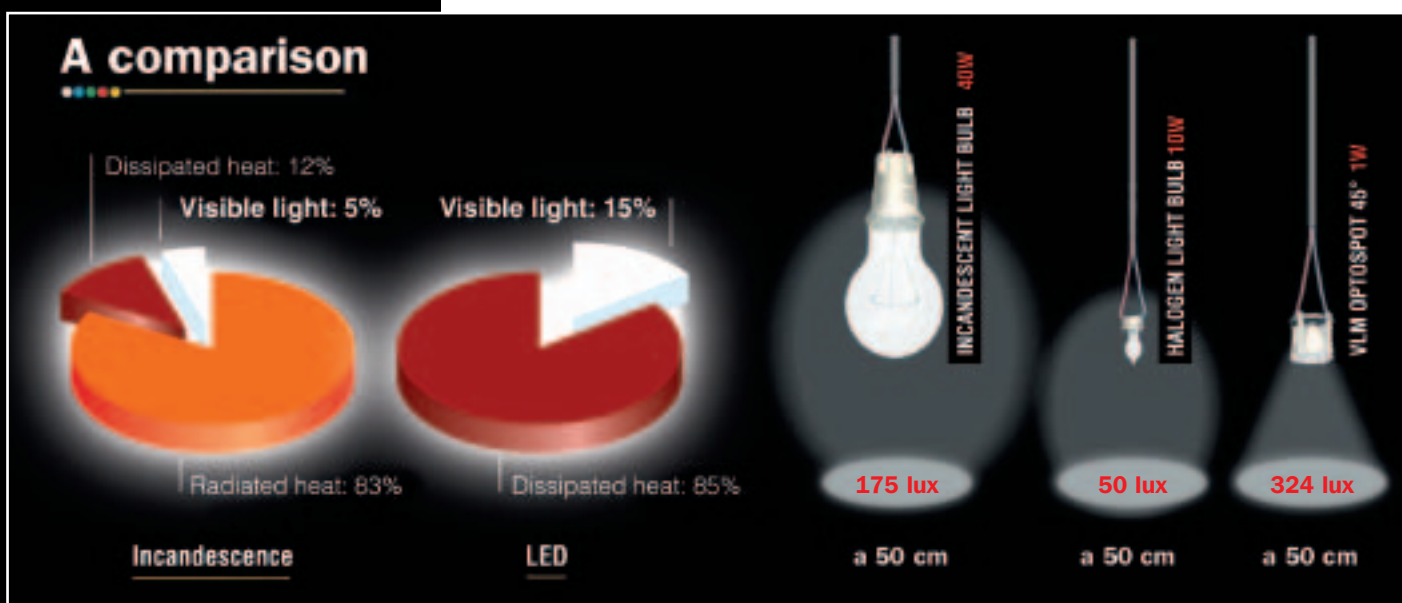
They also work at very low temperatures (-40°C).

They give great freedom to lighting system and apparatus designers.

They can be powered with a very low direct current safety voltage with a power unit positioned over 40 meters away.

They are extremely sturdy and can withstand vibrations.

LEDs come in a variety of colours as well as white. White LEDs are available in various colour temperatures (from 3300K to 7000K).



The most frequently asked questions about LEDs

Are LEDs really effective lighting sources?

Yes, of course: you only need to see the comparison of the various lighting sources on the previous page. The intrinsic efficiency of LEDs is in fact around 45 lumen/Watt (for white), which is much higher, than that of incandescent and halogen lights. In fact, compared to LEDs, the other types of lighting mentioned above “waste electricity” (... and lots of it! sometimes more than 80%) by emitting heat in the luminous band.

Furthermore, additional lenses or diffusers can be used to greatly increase the already fantastic lighting and technical performance of LEDs. VLM invests considerable resources in designing and developing lenses for its LED systems.

Is it true that there are LEDs of different qualities?

It is a question of efficiency not quality. There are low-efficiency LEDs that cannot be used for lighting but that are acceptable as warning lights, for example. And then there are high-efficiency LEDs that are much more expensive (especially power LEDs), whose main application is in the lighting field. VLM only uses high-efficiency LEDs.

What is the difference between a signal LED and a power LED?

They are both in the LED-for-lighting category but they do different jobs.

Signal LEDs do not work using high power (somewhere in the region of 0.1W): this is because their job is, precisely, to “signal”. Depending on how they are mounted they are divided into: Radial, that is with radial insertion and narrow band (10-30°) or SMD, with surface mounting featuring wide luminous angles (110-120°)

And the power LEDs?

Power LEDs represent the excellence of LEDs and it is on this that the greatest efforts are being concentrated in the field of technological research. From 10 to 45 times brighter than a signalling LED, they offer unprecedented, leading-edge lighting solutions. Currently available in 1 and 3W versions, they are almost always used combined with high-quality lenses that make it possible to get very narrow lighting angles (6-10°), and thus very suggestive lighting effects (so-called “emotive light”) can be created.

Why don't LEDs heat?

LEDs do not “heat” the objects they light because they do not emit infrared rays! They do not emit UV rays either; so, as well as not heating, they do not change the colours perceived of the lit objects. That is a fundamental strong point. An example? If lit with a traditional light source, lipstick ... melts, while a leather handbag or item risks fading/damage...

Why must power LEDs be connected in series?

Power LEDs are powered using direct current through special power supply units. Their main job is to control the current in the circuit, very precisely. To ensure constant current, all the LEDs in a circuit must be connected in series? Any parallel connection (such as commonly used for halogen lights) could deteriorate the LEDs very quickly. That said, some products (e.g. Dicroled) do have an integrated power circuit that enable them to be connected in parallel.

Why should I buy a VLM LED System rather than another? For five great reasons.

LED Systems are complex and “expensive”. Economic justification for their use is based on their performance and durability. But both performance and durability depend on design technology first and then production technology.

Here are some of the “great reasons” for choosing a VLM LED System rather than another.

1) The lenses: in most cases, lenses and diffusers are essential components in a LED system. They must therefore be: (a) studied in view of the lighting performance required and (b) optimised for the type of apparatus they are to be used in. For this reason VLM designs a wide range of “dedicated lenses”, i.e. lenses designed specially for its own LED Systems.

2) The cooling elements: a few LED Systems must be fitted with cooling elements that facilitate the emission of heat and, thus, lengthen the life of the product. Designing a cooling element is technically very complex and it is just as expensive to manufacture it; it is therefore necessary only to use highly-sophisticated materials. VLM makes its own cooling elements to fit to its LED Systems and is committed to a research and testing program involving the most innovative materials offering the best performance.

3) The color selections: the LED manufacturing process can cause small divergences in colour efficiency and tone. The problem of colour constancy is most obvious with “white”. For this reason VLM gives a choice between different colour temperatures (warm white at about 3,300K, cold white at approx. 5,500K and very cold white at about 7,000K). What is more, in particular cases it is possible to give its customers batches of LEDs that are selected in colour terms.

4) The size of the range: the field LEDs can be applied in is getting bigger all the time; it is necessary to cater for this with a similarly extensive, and above all constantly renewed, range of systems. Technological leader in the industry, VLM is also the leader in the range it offers with more than three hundred models/variants of standard LED Systems available in its catalogue.

5) The “solution providing” approach: the LED universe is evolving very rapidly, and, each day that passes, it is buffeted by the stimuli of “new developments” from different quarters : including industry, designers, and design engineers ... and sometimes from the end users themselves. Keeping up to date is a must, but sometimes that is not enough. LED system manufacturers must interact with all interested parties, take stock of all their requirements and engage in a mutual exchange of know how, to come to tailor-made solutions together. VLM is a “solutions provider” because it has the technical and creative facilities (and even before those, the mentality) to do it.





VLM Program POWER LED



Dicroled with 1 power LED

ODL series (GU4 base)

- 15° or 30° built in lens
- GU4 base (EN 60061-1)

Important: the Dicroled 1 has the same base (GU4) as the dichroic MR11

ODL/15/GU4

with 15° lens

ODL/30/GU4

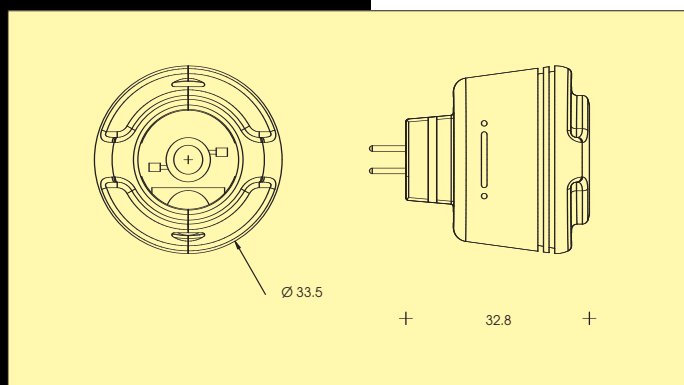
with 30° lens

12V power supply

- in direct current with functionality independent of the connection polarities.
- in alternating current with 60Hz lamellar or toroidal magnetic or electronic transformer, using enough Dicroleds to reach the minimum load indicated on the transformer's rating plate.

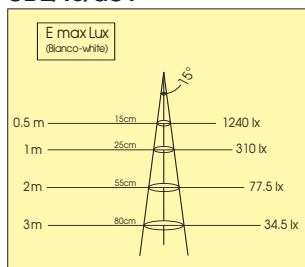
Recommended ambient temperature: -30° to 35°C

Can be powered in parallel without a limited max number.

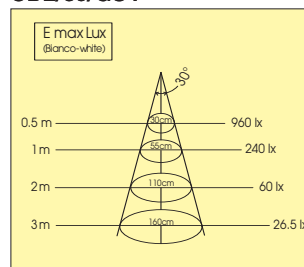


| ODL/15/GU4 ODL/30/GU4 | | Red | Yellow | Blue | Green | White | Warm-White |
|---|-------|-------|--------|-------|-------|---------------------|------------|
| Nominal current | mA | 140 | 140 | 160 | 160 | 160 | 160 |
| Maximum power | W | 1.7 | 1,7 | 1.9 | 1.9 | 1.9 | 1.9 |
| Input voltage | V | 9÷14 | 9÷14 | 9÷14 | 9÷14 | 9÷14 | 9÷14 |
| Average luminous flux | lumen | 27 | 25 | 16 | 53 | 45 | 20 |
| Lighting angle | ° | 15/30 | 15/30 | 15/30 | 15/30 | 15/30 | 15/30 |
| Approximative wave length. or colour temperature | nm/K | 625 | 590 | 455 | 530 | B~5500K BB~7000K | BC3300K |

ODL/15/GU4



ODL/30/GU4



Dicroled with 3 power LEDs ODL series (GU5.3 push in base)

- 15° or 30° built in lens
- GU5.3 push in base (EN 60061-1)

Important: the Dicroled 3 has the same base (GU5.3) as the dichroic MR16

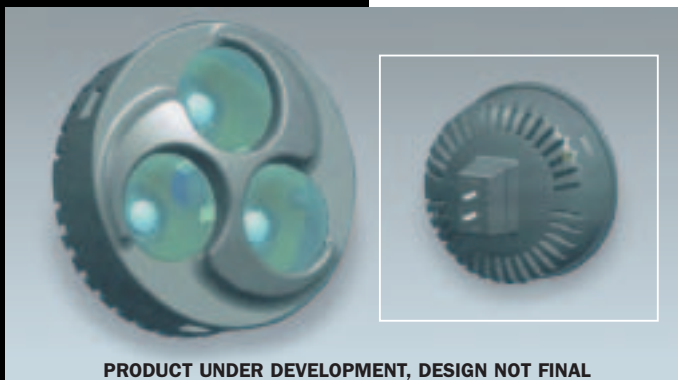
ODL/15/GU5.3
with 15° lens

ODL/30/GU5.3
with 30° lens

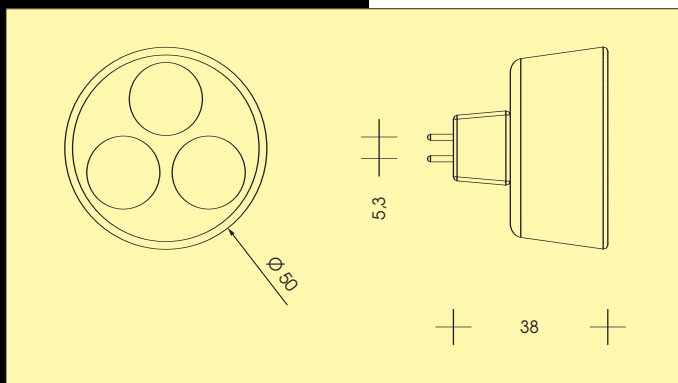
- 12V power supply
- in direct current with functionality independent of the connection polarities.
- in alternating current with 60Hz lamellar or toroidal magnetic or electronic transformer, using enough Dicroleds to reach the minimum load indicated on the transformer's rating plate.

Recommended ambient temperature: -30° to 35°C

Can be powered in parallel without a limited max number.

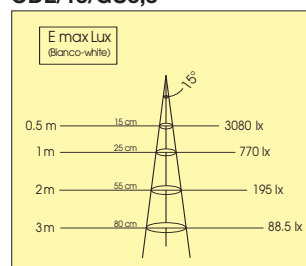


PRODUCT UNDER DEVELOPMENT, DESIGN NOT FINAL

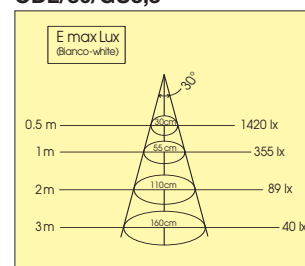


| ODL/15/GU5,3 ODL/30/GU5,3 | | Red | Yellow | Blue | Green | White | Warm-White |
|--|-------|-------|--------|-------|-------|---------------------|------------|
| Nominal current | mA | 325 | 325 | 375 | 375 | 375 | 375 |
| Maximum power | W | 3.9 | 3.9 | 4.5 | 4.5 | 4.5 | 4.5 |
| Input voltage | V | 9÷14 | 9÷14 | 9÷14 | 9÷14 | 9÷14 | 9÷14 |
| Average luminous flux | lumen | 81 | 75 | 48 | 159 | 135 | 60 |
| Lighting angle | ° | 15/30 | 15/30 | 15/30 | 15/30 | 15/30 | 15/30 |
| Approximative wave length. or colour temperature | nm/K | 625 | 590 | 455 | 530 | B~5500K BB~7000K | BC3300K |

ODL/15/GU5,3



ODL/30/GU5,3



Minispot for installation with 1 power LED OSP/25 series (25 mm hole)

- 60° or 45° built in lens
- white, transparent or chromium-plated plastic body
- equipped with connection cables (approx. 20cm)

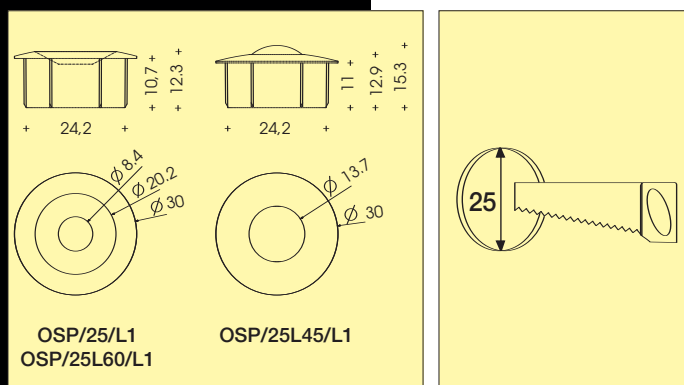
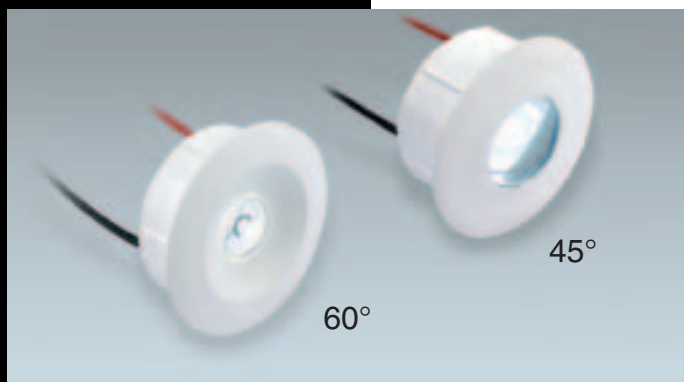
OSP/25L60/L1
with 60° lens

OSP/25L45/L1
with 45° lens

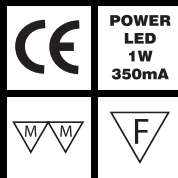
Also available in a version without lens
(.../25/L1)

To be used with VLM electronic 350mA constant current power supply units (see table on page 24)
Max. temp. on metal body (TC): 85°C

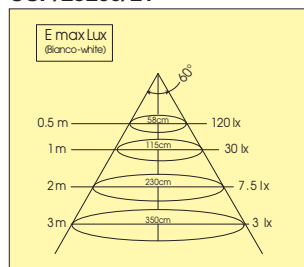
SERIAL CONNECTIONS ONLY



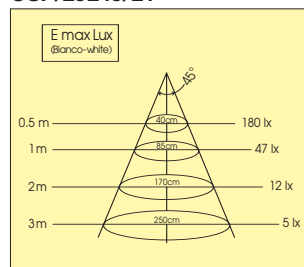
| OSP/25/L1 OSP/25L60/L1 OSP/25L45/L1 | | Red | Yellow | Blue | Green | White | Warm-White |
|---|-------|-----------|-----------|-----------|-----------|---------------------|------------|
| Nominal current | mA | 350 | 350 | 350 | 350 | 350 | 350 |
| Maximum power | W | 1.2 | 1.2 | 1.4 | 1.4 | 1.4 | 1.4 |
| Maximum voltage | V | 3.3 | 3.3 | 4 | 4 | 4 | 4 |
| Average luminous Flux | lumen | 27 | 25 | 16 | 53 | 45 | 20 |
| Lighting angle | ° | 110/60/45 | 110/60/45 | 110/60/45 | 110/60/45 | 110/60/45 | 110/60/45 |
| Approximative wave length. or colour temperature | nm/K | 625 | 590 | 455 | 530 | B~5500K BB~7000K | BC3300K |



OSP/25L60/L1



OSP/25L45/L1



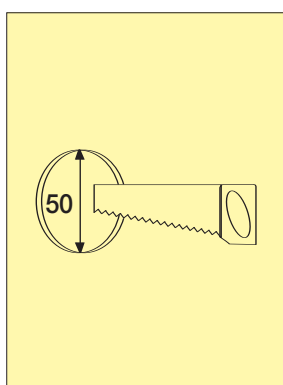
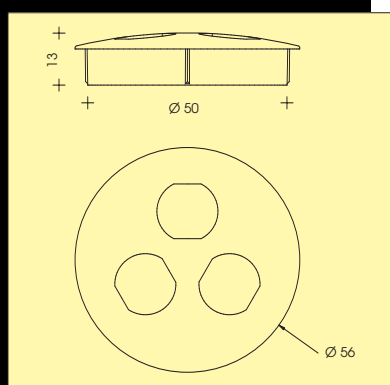
Spot for installation with 3 power LEDs

OSP/L45 series (50 mm hole)

- three built in 45° lenses
- white plastic, transparent or chromium-plated body
- equipped with connection cables (approx. 20cm)

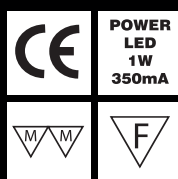
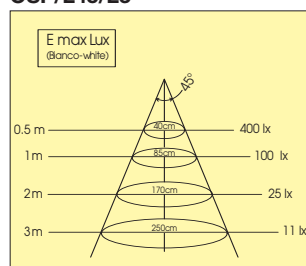
To be used with VLM electronic 350mA constant current power supply units (see table on page 24)
Max. temp. on metal body (TC): 85°C

SERIAL CONNECTIONS ONLY



| OSP/L45/L3 | | Red | Yellow | Blue | Green | White | Warm-White |
|--|-------|-----|--------|------|-------|---------------------|------------|
| Nominal current | mA | 350 | 350 | 350 | 350 | 350 | 350 |
| Maximum power | W | 3.9 | 3.9 | 4.5 | 4.5 | 4.5 | 4.5 |
| Maximum voltage | V | 9.9 | 9.9 | 12 | 12 | 12 | 12 |
| Average luminous flux | lumen | 81 | 75 | 48 | 159 | 135 | 60 |
| Lighting angle | ° | 45 | 45 | 45 | 45 | 45 | 45 |
| Approximative wave length. or colour temperature | nm/K | 625 | 590 | 455 | 530 | B~5500K BB~7000K | 3300K |

OSP/L45/L3

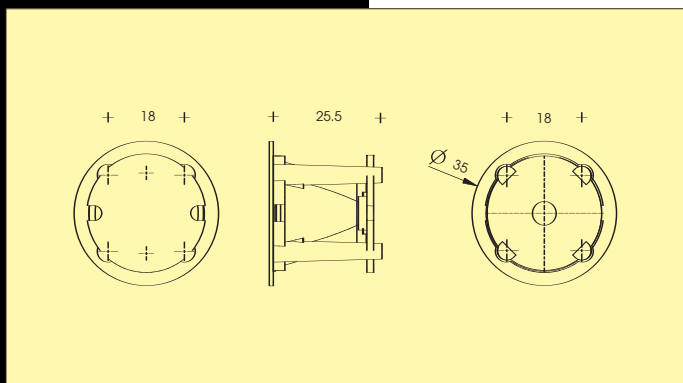


Modules/components with 1 power LED OSP/LLF series

- 6°, 30° or 45° built in lens
- equipped with connection cables (approx. 20cm)

Important: the series has the same diameter (35.3 mm) as dichroic MR11 (GU4)

Also available in a version with a smaller diameter (28 mm): .../LF



OSP/LLF6/L1
with 6° lens

OSP/LLF30/L1
with 30° lens

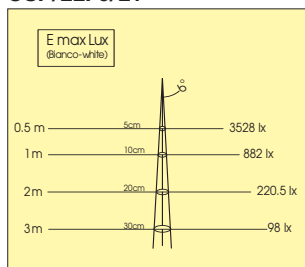
OSP/LLF45/L1
with 45° lens

To be used with VLM electronic 350mA constant current power supply units (see table on page 24)
Max. temp. on metal body (TC): 85°C

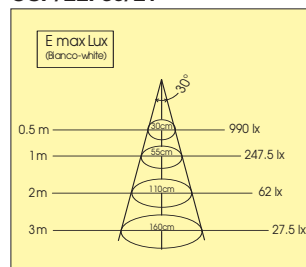
SERIAL CONNECTIONS ONLY

| OSP/LLF6/L1 OSP/LLF30/L1 OSP/LLF45/L1 | | Red | Yellow | Blue | Green | White | Warm White |
|---|-------|---------|---------|---------|---------|---------------------|------------|
| Nominal current | mA | 350 | 350 | 350 | 350 | 350 | 350 |
| Maximum power | W | 1.2 | 1.2 | 1.4 | 1.4 | 1.4 | 1.4 |
| Maximum voltage | V | 3.3 | 3.3 | 4 | 4 | 4 | 4 |
| Average luminous flux | lumen | 27 | 25 | 16 | 53 | 45 | 20 |
| Lighting angle | ° | 6/30/45 | 6/30/45 | 6/30/45 | 6/30/45 | 6/30/45 | 6/30/45 |
| Approximative wave length or colour temperature | nm/K | 625 | 590 | 455 | 530 | B~5500K BB~7000K | BC3300K |

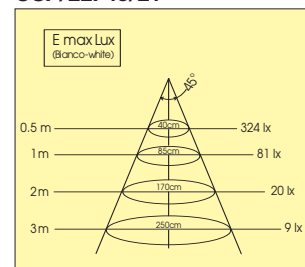
OSP/LLF6/L1



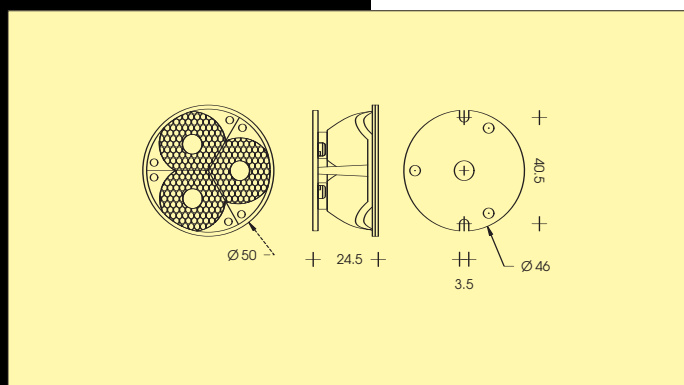
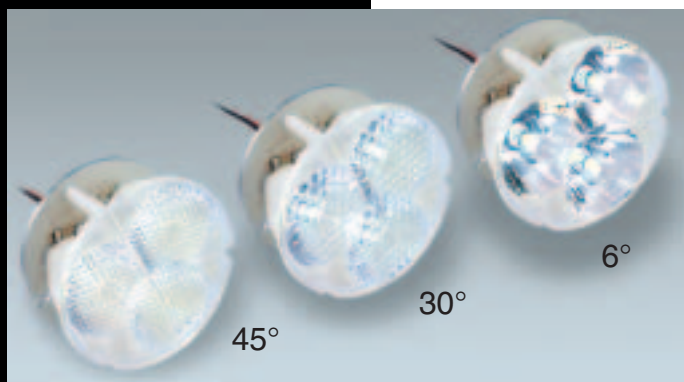
OSP/LLF30/L1



OSP/LLF45/L1



Modules/components with 3 power LEDs OSP/LF series



- 6°, 30° or 45° built in lens
- equipped with connection cables (approx. 20cm)

Important: the series has the same diameter (51 mm) as dichroic MR16 (GU5.3)

OSP/LF6/L3
with 6° lens

OSP/LF30/L3
with 30° lens

OSP/LF45/L3
with 45° lens

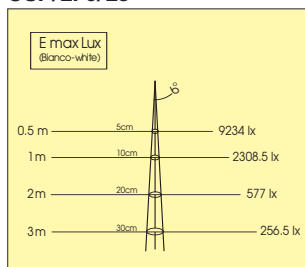
To be used with VLM electronic 350mA constant current power supply units (see table on page 24)
Max. temp. on metal body (TC): 85°C

Also available in a version "H" with extra cooling element

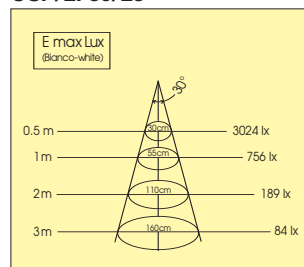
SERIAL CONNECTIONS ONLY

| OSP/LF6/L3 OSP/LF30/L3 OSP/LF45/L3 | | Red | Yellow | Blue | Green | White | Warm-White |
|--|-------|---------|---------|---------|---------|---------------------|------------|
| Nominal current | mA | 350 | 350 | 350 | 350 | 350 | 350 |
| Maximum power | W | 3.9 | 3.9 | 4.5 | 4.5 | 4.5 | 4.5 |
| Average luminous flux | lumen | 81 | 75 | 48 | 159 | 135 | 60 |
| Lighting angle | ° | 6/30/45 | 6/30/45 | 6/30/45 | 6/30/45 | 6/30/45 | 6/30/45 |
| Approximative wave length. or colour temperature | nm/K | 625 | 590 | 455 | 530 | B~5500K BB~7000K | BC3300K |

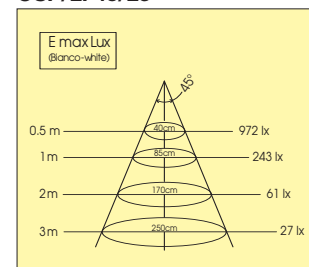
OSP/LF6/L3



OSP/LF30/L3



OSP/LF45/L3

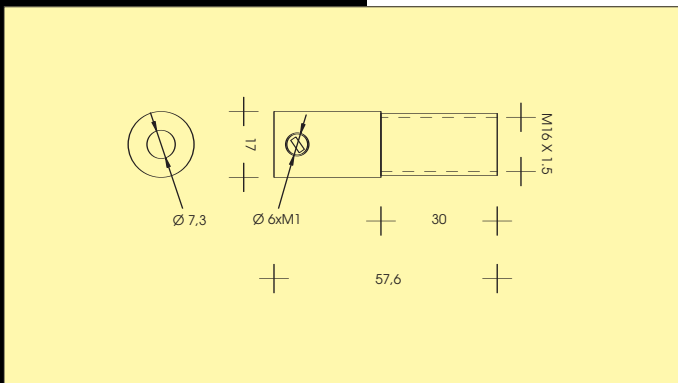


Metal light injector with 1 power LED
OLJ/F6/L1

- special light source for optical fiber diam. 6mm.
- Threaded body M16 x 1.5
- supplied with fixing nut
- equipped with connection cables (approx. 20cm)

To be used with VLM electronic 350mA constant current power supply units (see table on page 24)
 Max. temp. on metal body (TC): 80°C

SERIAL CONNECTIONS ONLY

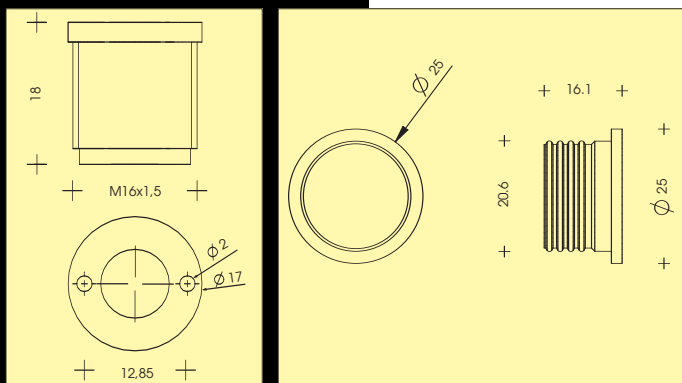


| OLJ/F6/L1 | | Red | Yellow | Blue | Green | White | Warm-White |
|---|-------|------------|---------------|-------------|--------------|---------------------|-------------------|
| Nominal current | mA | 350 | 350 | 350 | 350 | 350 | 350 |
| Maximum power | W | 1.2 | 1.2 | 1.4 | 1.4 | 1.4 | 1.4 |
| Maximum voltage | V | 3.3 | 3.3 | 4 | 4 | 4 | 4 |
| Average luminous flux | lumen | 27 | 25 | 16 | 53 | 45 | 20 |
| Lighting angle | ° | 45 | 45 | 45 | 45 | 45 | 45 |
| Approximative wave length or colour temperature | nm/K | 625 | 590 | 455 | 530 | B~5500K BB~7000K | BC3300K |

Metal minispot with 1 power LED

OLJ/F16L60 and OLJ/FG9 series

- built in 60° lens (OLJ/F16L60)
- built in 15° or 30° lens (OLJ/FG9 series)
- equipped with connection cables (approx. 20cm)



OLJ/F16L60/L1: with 60° lens
- threaded body M16 x 1.5
- supplied with 16 mm fixing nut

OLJ/FG9/L15: with 15° lens
- threaded body M20.6x2
- supplied with fixing wing nut

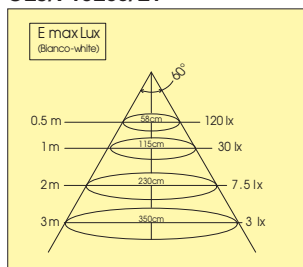
OLJ/FG9/L30: with 30° lens
- threaded body M20.6x2
- supplied with fixing wing nut

To be used with VLM electronic 350mA constant current power supply units (see table on page 24)
Max. temp. on metal body (TC): 80°C

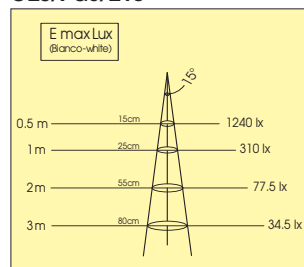
SERIAL CONNECTIONS ONLY

| OLJ/F16L60/L1 OLJ/FG9/L15 OLJ/FG9/L30 | | Red | Yellow | Blue | Green | White | Warm-White |
|---|-------|----------|----------|----------|----------|---------------------|------------|
| Nominal current | mA | 350 | 350 | 350 | 350 | 350 | 350 |
| Maximum power | W | 1.2 | 1.2 | 1.4 | 1.4 | 1.4 | 1.4 |
| Maximum voltage | V | 3.3 | 3.3 | 4 | 4 | 4 | 4 |
| Average luminous flux | lumen | 27 | 25 | 16 | 53 | 45 | 20 |
| Lighting angle | ° | 60/15/30 | 60/15/30 | 60/15/30 | 60/15/30 | 60/15/30 | 60/15/30 |
| Approximative wave length or colour temperature | nm/K | 625 | 590 | 455 | 530 | B~5500K BB~7000K | BC3300K |

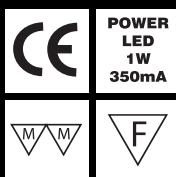
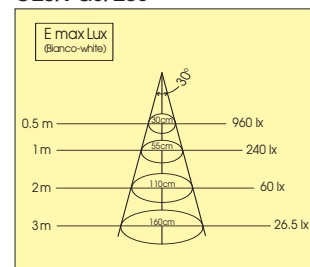
OLJ/F16L60/L1



OLJ/FG9/L15



OLJ/FG9/L30



POWER LED
1x3W 700 mA

Metal minispot with 1 power LED 3W OLJ/F14 series

- 6°, 30° or 45° built in lens
- threaded body diam. 27.5 mm (E14)
- supplied with fixing ring nut
- equipped with connection cables (approx. 20cm)



OLJ/F14/LF6/LT
with 6° lens

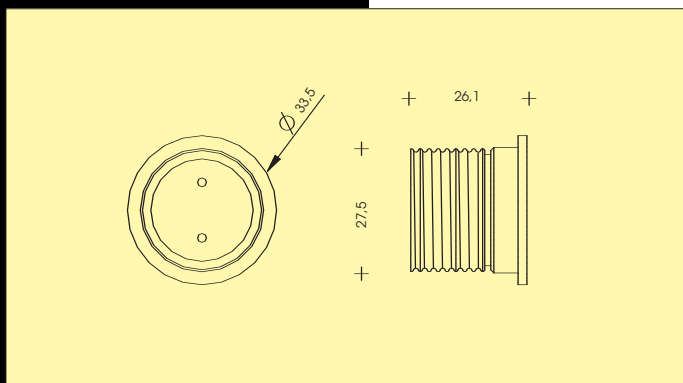
OLJ/F14/LF30/LT
with 30° lens

OLJ/F14/LF45/LT
with 45° lens

To be used with VLM electronic 350mA constant current power supply units (see table on page 24)
Max. temp. on metal body (TC): 80°C

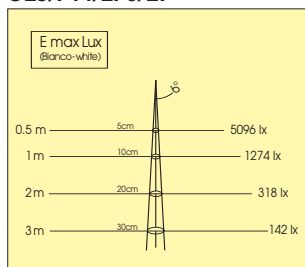
LED colours available: white, blue, green

SERIAL CONNECTIONS ONLY

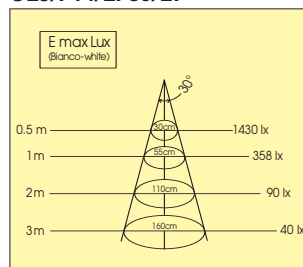


| OLJ/F14/LF6/LT OLJ/F14/LF30/LT OLJ/F14/LF45/LT | | Red | Yellow | Blue | Green | White |
|--|-------|---------|---------|---------|---------|---------|
| Nominal current | mA | 700 | 700 | 700 | 700 | 700 |
| Maximum power | W | 2.6 | 2.6 | 3.2 | 3.2 | 3.2 |
| Maximum voltage | V | 3.75 | 3.75 | 4.47 | 4.47 | 4.47 |
| Average luminous flux 700 ma | lumen | 55 | 50 | 23 | 64 | 65 |
| Lighting angle | ° | 6/30/45 | 6/30/45 | 6/30/45 | 6/30/45 | 6/30/45 |
| Approximative wave length or colour temperature | nm/K | 627 | 590 | 455 | 530 | 6000K |

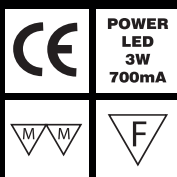
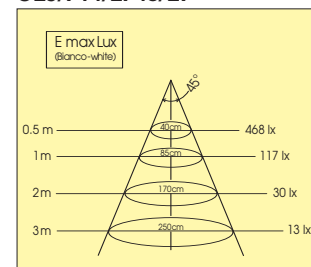
OLJ/F14/LF6/LT



OLJ/F14/LF30/LT



OLJ/F14/LF45/LT

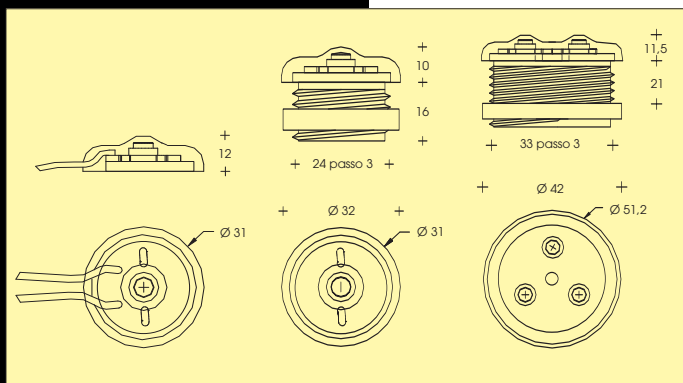


POWER LED
1x1W 350 mA

POWER LED
3x1W 350 mA

Submersion proof mini spot with 1/3 power LED(s) OSP/IP series IP68 for submersion

- minispot with 1 or 3 LEDs moulded in shock proof material
- equipped with connection cables (approx. 50cm)



OSP/IPF/D1: flat minispot for submersion with 1 power LED – diam. 31mm

OSP/IP/D1: minispot for installation with 1 power LED – threaded body M24x3 supplied with fixing wing nut

OSP/IP/D3: minispot for installation with 3 power LEDs – threaded body M24x3 supplied with fixing wing nut

To be used with VLM electronic 350mA constant current power supply units (see table on page 24)
Max. temp. on metal body (TC): 80°C

SERIAL CONNECTIONS ONLY

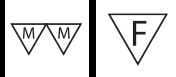
| OSP/IPF/D1-OSP/IP/D1 | | Red | Yellow | Blue | Green | White |
|---------------------------|-------|-----|--------|------|-------|---------|
| Nominal current | mA | 350 | 350 | 350 | 350 | 350 |
| Maximum power | W | 1.2 | 1.2 | 1.4 | 1.4 | 1.4 |
| Maximum voltage | V | 2.6 | 2.6 | 4 | 4 | 4.5 |
| Average luminous flux | lumen | 25 | 17 | 10 | 40 | 40 |
| Approximative wave lenght | nm | 617 | 590 | 470 | 530 | B~6000K |

| OSP/IP/D3 | | Red | Yellow | Blue | Green | White |
|---------------------------|-------|-----|--------|------|-------|---------|
| Nominal current | mA | 350 | 350 | 350 | 350 | 350 |
| Maximum power | W | 3.6 | 3.6 | 4.2 | 4.2 | 4.2 |
| Maximum voltage | V | 7.8 | 7.8 | 12.6 | 12.6 | 13.5 |
| Average luminous flux | lumen | 75 | 51 | 30 | 120 | 120 |
| Approximative wave lenght | nm | 617 | 590 | 470 | 530 | B~6000K |

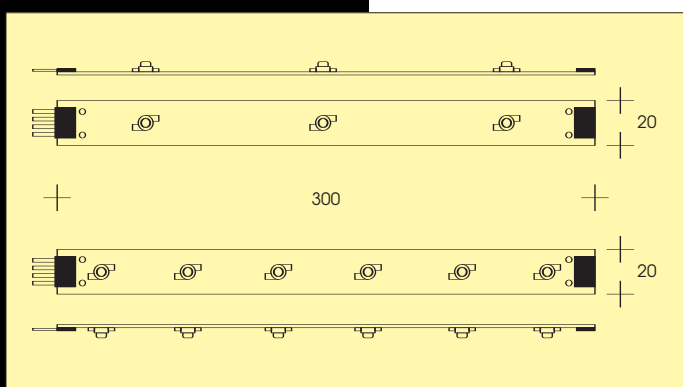
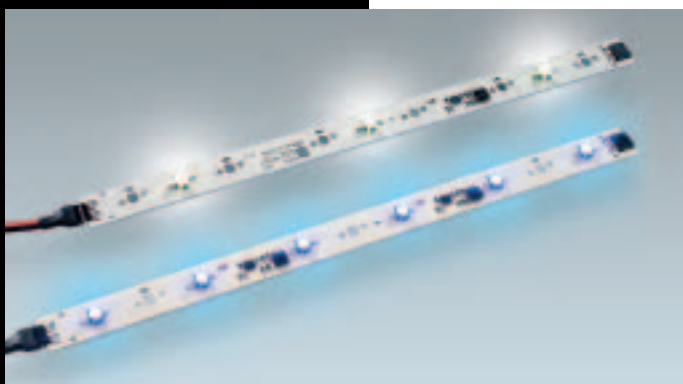


POWER LED
1W
350mA

IP68



Strip modules with 3/6 power LED(s) L-LM series



- can be connected one to another and powered at 12V constant voltage due to a power circuit on the circuit board that enables the control of the current supplied to the LEDs
- ideal for creating "lighting paths" for great optical effect.

- especially suitable for equipment to light objects that could be harmed by the heat given off by traditional lighting sources (e.g. pictures)

- length: 300 mm - width: 20 mm
- lighting angle: 140° C (white).

Available in:

- version with bayonet connectors of one module with another (OSM/)
- version with connection cables with cross section 0.75 sq. mm (approx. 20 cm)

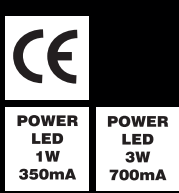
- OSM20/300/L-LM3:** 3 LEDs, with connectors
- OSM20/300/L-LM6:** 6 LEDs, with connectors
- OS20/300/L-LM3:** 3 LEDs, with connection cables
- OS20/300/L-LM6:** 6 LEDs, with connection cables

To be used with VLM electronic 12V DC power supply units: mod. PTDC/10/12V/B or PTDC/40/12V/N according to the number of Ledstrips to connect
Max. temp. on metal body (TC): 85°C

Max. no. of modules that can be connected in series:
(.../L-LM3): 16 - (.../L-LM6): 8

PARALLEL CONNECTION

| OSM(OS)20/300/L-LM3 OSM(OS)20/300/L-LM6 | | Red | Yellow | Blue | Green | White | Warm-White |
|---|-------|---------|---------|---------|---------|---------------------|------------|
| Nominal voltage (DC) | V | 12 | 12 | 12 | 12 | 12 | 12 |
| Maximum power | W | 4.2-8.4 | 4.2-8.4 | 4.2-8.4 | 4.2-8.4 | 4.2-8.4 | 4.2-8.4 |
| Nominal current | mA | 350-700 | 350-700 | 350-700 | 350-700 | 350-700 | 350-700 |
| Average luminous flux | lumen | 81-162 | 75-150 | 48-96 | 159-318 | 135-270 | 60-120 |
| Lighting angle | ° | 110 | 110 | 140 | 140 | 140 | 110 |
| Approximative wave lenght or colour temperature | nm/K | 625 | 590 | 455 | 530 | B~5500K BB~7000K | BC3300K |



VLM Kit - LED the “all-in-one” solution

All you need for LED lighting immediately, in a single package. Spot, power supply and cables complete with Faston connectors.

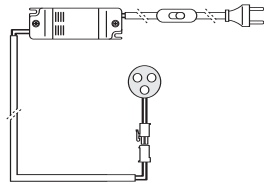
An effective sales proposal for immediate and genuine “problem shooting”. Ideal for less complex installations and do-it-yourself enthusiasts.

NB: See the previous pages for the technical characteristics of the products in the “LED Kit”





Single OptoSpot Kit

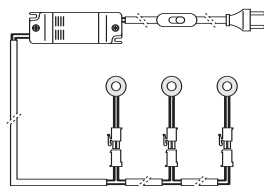


Optospots are the best alternative to traditional built in spotlights, in terms of technology and aesthetic. They have practically unlimited lifetime, require no maintenance and (very importantly) do not “heat” the lighted objects.

Available in 1 spot kits.



MiniSpot Kit x 3

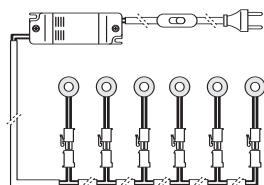


Minispots have been designed to provide particularly suggestive lighting effects, to create “paths of light” in showrooms, modern exhibition rooms and/or for optimal presentation of collectors items, be it in the home, shops, boutiques etc.

Available in 3 or 6 spot kits.

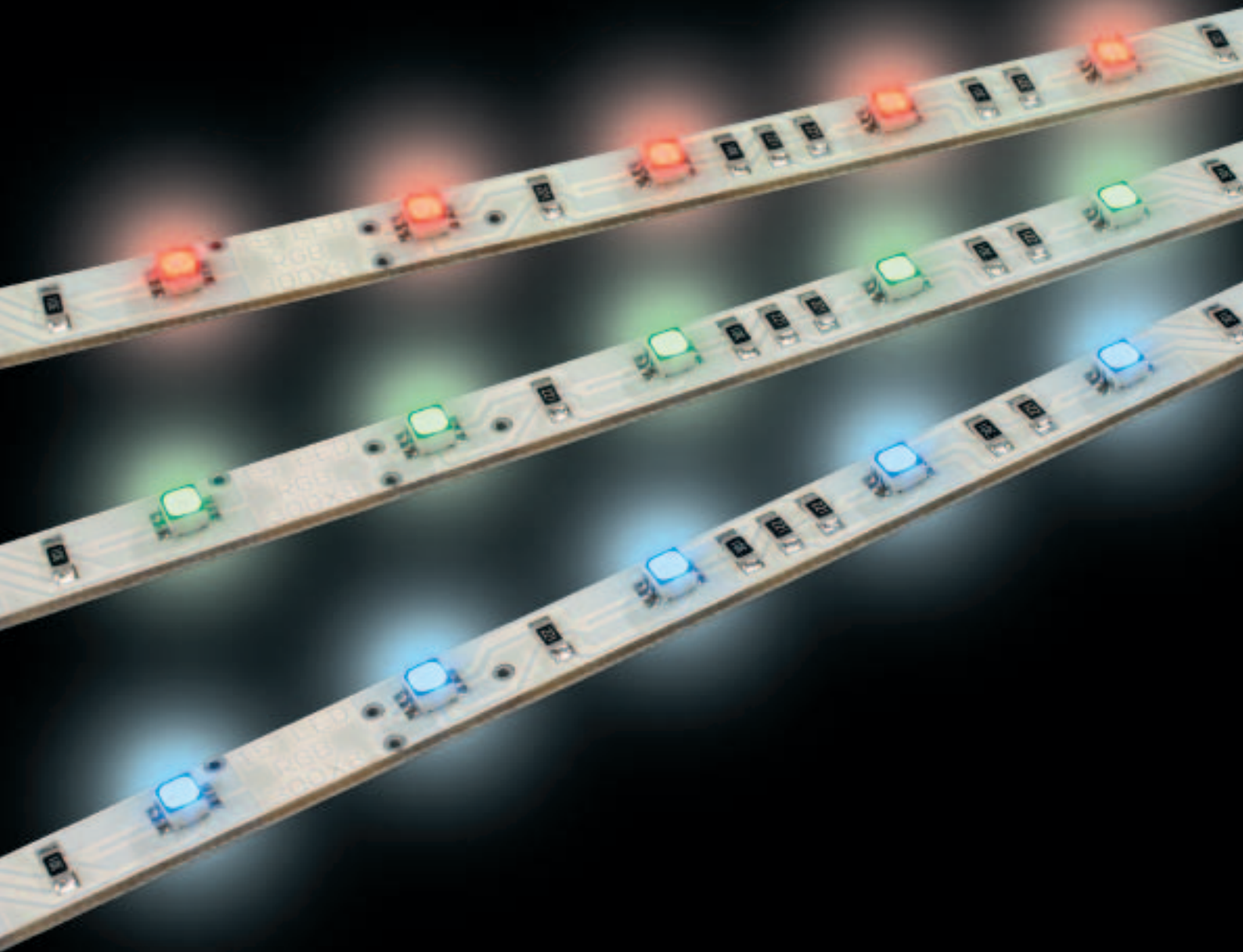


MiniSpot Kit x 6

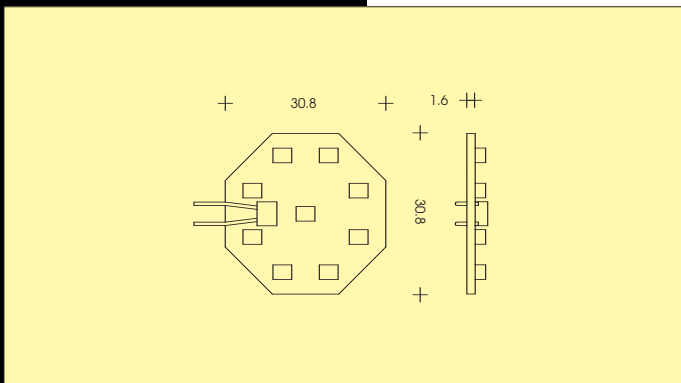
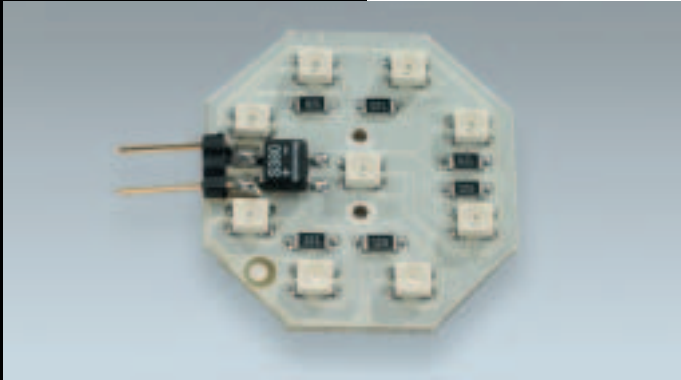




VLM Program SIGNAL AND RADIAL LEDs



Module/component with 9 Signal LEDs
OLG4/030/S9 series (GU4 base)



- particularly suitable to use in traditional spotlights with G4 base.
- 9 SMD LEDs with 120° lighting angle
- GU4 connection PIN (EN 60061-1)

12V AC power supply
 - with magnetic or electronic transformer using enough modules to reach the minimum load required for the transformer itself.

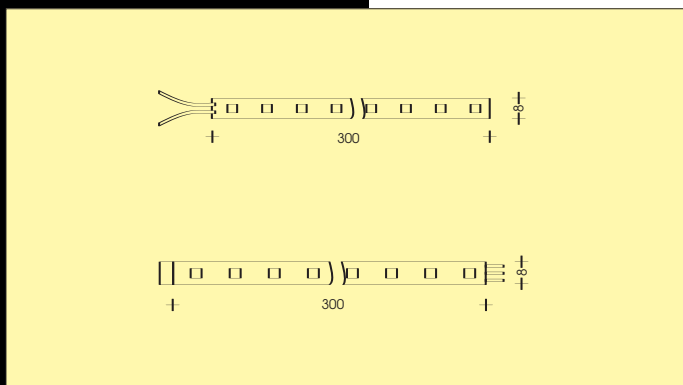
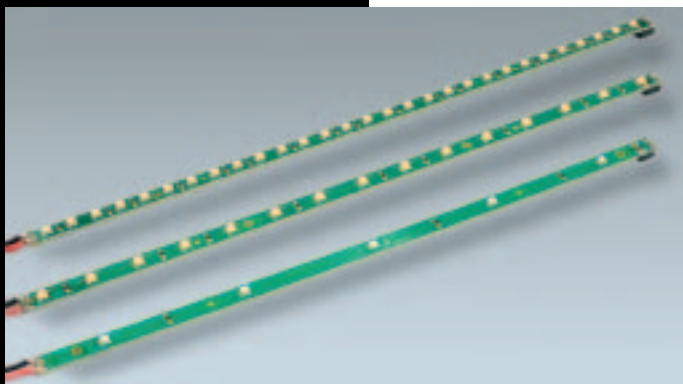
12V DC power supply
 - with functionality independent of the connection polarities (see table on page 26)

Max. temperature on the LED soldering tag (TC): 85°C

PARALLEL CONNECTION

| OLG4/030/S9 | | Red | Yellow | Blue | Green | White |
|--|-------|------------|---------------|-------------|--------------|------------------|
| Nominal current | mA | 60 | 60 | 60 | 60 | 60 |
| Power | W | 1 | 1 | 1 | 1 | 1 |
| Luminous flux | lumen | 21.5 | 11.5 | 4.5 | 9 | 11 |
| Approximative wave length or colour co-ordinates | nm | 615 | 587 | 470 | 528 | x=0.32 y=0.31 |

Strip modules with 5/15/29 SIGNAL LED(s) OS/OSM series



- particularly suitable for outlining routes on the ground and/or walls
- length: 300 mm - width: 8 mm
- lighting angle: 120°

Available in:

- version with connection cables with cross section 0.75 sq. mm (OS8/...)
- version with bayonet connectors of one module with another (OSM8/...)

OS8/300/S5: 5 LEDs, with connection cables
OS8/300/S15: 15 LEDs, with connection cables
OS8/300/S29: 29 LEDs, with connection cables

OSM8/300/S5: 5 LEDs, with connectors
OSM8/300/S15: 15 LEDs, with connectors
OSM8/300/S29: 29 LEDs, connectors

To be used with VLM electronic 350mA constant current power supply units (see table on page 26)
 Max. temperature on the LED soldering tag (TC): 85°C

Max. no. of modules that can be connected in series:
(.../S5): 100 - (.../S15): 33 - (.../S29): 20

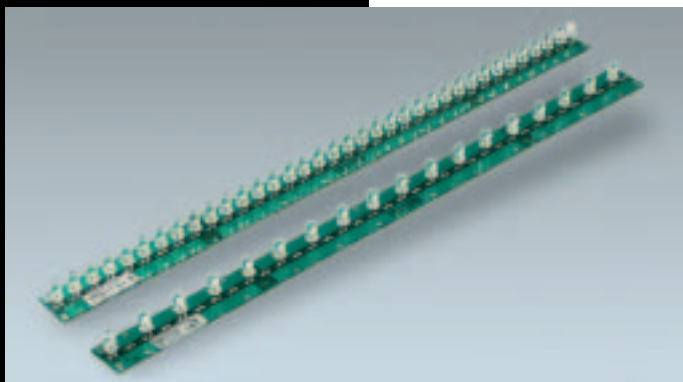
| OS8/300/S5 OSM8/300/S5 | | Red | Yellow | Blue | Green | White |
|--|-------|------------|---------------|-------------|--------------|------------------|
| Nominal current | mA | 20 | 20 | 20 | 20 | 20 |
| Power | W | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| Luminous flux | lumen | 12 | 6.5 | 2.5 | 5 | 6 |
| Approximative wave length or colour co-ordinates | nm | 625 | 587 | 470 | 528 | x=0.32 y=0.31 |

| OS8/300/S15 OSM8/300/S15 | | Red | Yellow | Blue | Green | White |
|--|-------|------------|---------------|-------------|--------------|------------------|
| Nominal current | mA | 60 | 60 | 60 | 60 | 60 |
| Power | W | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| Luminous flux | lumen | 36 | 19 | 7 | 15 | 18 |
| Approximative wave length or colour co-ordinates | nm | 625 | 587 | 470 | 528 | x=0.32 y=0.31 |

| OS8/300/S29 OSM8/300/S29 | | Red | Yellow | Blue | Green | White |
|--|-------|------------|---------------|-------------|--------------|------------------|
| Nominal current | mA | 120 | 120 | 120 | 120 | 120 |
| Power | W | 3 | 3 | 3 | 3 | 3 |
| Luminous flux | lumen | 70 | 36.5 | 13.5 | 29 | 35 |
| Approximative wave length or colour co-ordinates | nm | 625 | 587 | 470 | 528 | x=0.32 y=0.31 |



Strip with 18/36 5 mm radial LEDs OS20 series



- particularly suitable for backlit panels
- length: 300 mm - width: 20 mm
- lighting angle: 20°

OS20/300/R18

- version with 18 LEDs

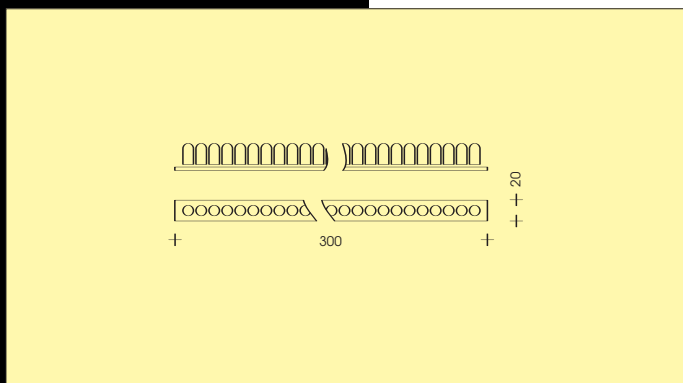
OS20/300/R36

- version with 36 LEDs

To be used with VLM electronic 24V constant voltage power supply units (see table on page 26)

Max. temperature on the LED soldering tag (TC): 85°C

Max. no. of modules that can be connected in series: (.../R18): 38 - (.../R36): 19



| OS20/300/R18 | | White |
|--------------------------------|---------|------------------|
| Nominal current | mA | 90 |
| Power | W | 1.5 |
| Lighting intensity (sing. led) | candles | 6.5 |
| Colour co-ordinates | | x=0.32 y=0.31 |

| OS20/300/R36 | | White |
|--------------------------------|---------|------------------|
| Nominal current | mA | 180 |
| Power | W | 3.0 |
| Lighting intensity (sing. led) | candles | 6.5 |
| Colour co-ordinates | | x=0.32 y=0.31 |

Constant current power supply units for spots/modules with power LEDs

How many modules do you want to connect?

| Type | Code | Page ref. | up to 2 | up to 3 | up to 5 | up to 8 | up to 3 | up to 6 | up to 11 |
|---------------------------------|-----------------|-----------|---|---|---|---|--------------------------------------|------------------------------|------------------------------|
| Systems with 1x1 LED | | | LED COLOUR: white / blue / green | | | | LED COLOUR: yellow / red | | |
| Minispot 1W | OSP/25/L1 | 9 | PTDCC/350/12-24V/N input 12V | PTDCC/3/350/N - PTBB/350 input 12V * | PTDCC/350/12-24V/N input 24V | PTDCC/10/350/B | PTDCC/3/350/N - PTBB/350 input 12V * | PTDCC/350/12-24V/N input 12V | PTDCC/350/12-24V/N input 24V |
| Minispot 1W | OSP/25L60/L1 | 9 | | | | | | | |
| Minispot 1W | OSP/25L45/L1 | 9 | | | | | | | |
| Module 1W | OSP/LLF6/L1 | 11 | | | | | | | |
| Module 1W | OSP/LLF30/L1 | 11 | | | | | | | |
| Module 1W | OSP/LLF45/L1 | 11 | | | | | | | |
| Light injector 1W | OLJ/F6/L1 | 13 | | | | | | | |
| Minispot 1W | OLJ/F16L60/L1 | 14 | | | | | | | |
| Minispot 1W | OLJ/FG9/L15 | 14 | | | | | | | |
| Minispot 1W | OLJ/FG9/L30 | 14 | | | | | | | |
| Submersion proof minispot 1W | OSP/IPF/D1 | 16 | | | | | | | |
| Submersion proof minispot 1W | OSP/IP/D1 | 16 | | | | | | | |
| Type | Code | Page ref. | 1 | up to 2 | 1 | up to 2 | up to 3 | | |
| Systems with 3 x 1W LEDs | | | LED COLOUR: white / blue / green | | LED COLOUR: yellow / red | | | | |
| Module 3x1W | OSP/LF6/L3 | 12 | PTDCC/3/350/N PTDCC/350/12-24V/N input 24V PTBB/350 input 12V | PTDCC/10/350/B PTBB/350/N input 24V ** | PTDCC/3/350/N PTDCC/350/12-24V/N input 12V PTBB/350 input 12V | PTDCC/350/12-24V/N input 24V PTBB/350/N input 24V ** | PTDCC/10/350/B | | |
| Module 3x1W | OSP/LF30/L3 | 12 | | | | | | | |
| Module 3x1W | OSP/LF45/L3 | 12 | | | | | | | |
| Spot 3x1W | OSP/L45/L3 | 10 | | | | | | | |
| Submersion proof minispot 3x1W | OSP/IP/D3 | 16 | | | | | | | |
| Type | Code | Page ref. | up to 3 | | | | | | |
| Systems with 1 x 3W LED | | | LED COLOUR: white / blue / green | | | | | | |
| Minispot 1x3W | OLJ/F14/LF6/LT | 15 | PTDCC/10/700/B | | | | | | |
| Minispot 1x3W | OLJ/F14/LF30/LT | 15 | | | | | | | |
| Minispot 1x3W | OLJ/F14/LF45/LT | 15 | | | | | | | |

* 3 modules
** 2 modules

*Caution:
only the use of VLM power supply units
and dimmers guarantee the VLM RGB LED
modules will work properly.*

Constant current power supply units for spots/modules with power LEDs



PTDCC/3/350/N

Direct current power supply unit for installation. High efficiency, reduced weight and volume.
Constant output current (350 mA)
Universal input voltage 95 – 240 Volt
Equipped with terminals.



PTDCC/10/350/B

Independent direct current power supply unit. High efficiency, reduced weight and volume.
Constant output current (350 mA)
Universal input voltage 95 – 240 Volt
Equipped with terminals.



PTDCC/10/700/B

Independent direct current power supply unit. High efficiency, reduced weight and volume.
Constant output current (700 mA)
Universal input voltage 95 – 240 Volt
Equipped with terminals.



PTBB/350

Direct current power supply unit for installation. High efficiency, reduced weight and volume.
Constant output current (350 mA)
with low input voltage
Equipped with terminals.



PTDCC/350/12-24V/N

Direct current power supply unit for installation. High efficiency, reduced weight and volume.
Constant output current (350 mA)
with low input voltage
Equipped with terminals.

| Power Unit | | PTDCC/3/ 350/N | PTDCC/10/ 350/B | PTDCC/10/ 700/B | PTBB/350 | PTDCC/350/ 12-24V |
|--------------------------|-----------------|-------------------|--------------------|--------------------|-----------|----------------------|
| Nominal input voltage | V | 95 - 240 | 95 - 240 | 95 - 240 | 6 - 24 | 9 - 24 |
| Frequency | Hz | 50 - 60 | 50 - 60 | 50 - 60 | | 0 - 60 |
| Output voltage | mA | 350 | 350 | 700 | 350 | 350 |
| Power output at 110V | W | 3 | 10 | 10 | 4.2 | 4.2 |
| Thermal protection | | yes | yes | yes | | |
| Overload protection | | yes | yes | yes | | |
| Overcurrents protection | | yes | yes | yes | | |
| Short circuit protection | | yes | yes | yes | | |
| Input cables | mm ² | 0.5 - 2.5 | 2x0.75 | 2x0.75 | 0.5 - 2.5 | 0.5 - 2.5 |
| Output cables (max) | mm ² | 0.5 - 2.5 | 0.5 - 2.5 | 0.5 - 2.5 | 0.5 - 2.5 | 0.5 - 2.5 |
| Dimensions | mm | 40x42x21 | 34x115x19 | 34x115x19 | 40x42x21 | 40x42x21 |
| Weight | g | 45 | 60 | 60 | 45 | 45 |

Constant current power supply units for LED strips/modules with SMD and radial LEDs

How many modules do you want to connect?

| Type | Code | Page ref. | 1 | up to 2 | up to 3 | up to 6 | up to 13 | up to 18 | up to 26 | up to 78 |
|---------------------------|--------------|-----------|--------------|--------------|---------------|---------------|-------------|---------------|-------------|-------------|
| Modular LED strips | | | | | | | | | | |
| Led strip 5 | OS8/300/S5 | 22 | | | | PTDC/3/24V/N | | PTDC/10/24V/B | | PTDC/40/24V |
| Led strip 15 | OS8/300/S15 | 22 | | PTDC/3/24V/N | | PTDC/10/24V/B | | | PTDC/40/24V | |
| Led strip 29 | OS8/300/S29 | 22 | PTDC/3/24V/N | | PTDC/10/24V/B | | PTDC/40/24V | | | |
| Led strip 5 | OSM8/300/S5 | 22 | | | | PTDC/3/24V/N | | PTDC/10/24V/B | | PTDC/40/24V |
| Led strip 15 | OSM8/300/S15 | 22 | | PTDC/3/24V/N | | PTDC/10/24V/B | | | PTDC/40/24V | |
| Led strip 29 | OSM8/300/S29 | 22 | PTDC/3/24V/N | | PTDC/10/24V/B | | PTDC/40/24V | | | |

| Type | Code | Page ref. | 1 | up to 2 | up to 3 | up to 4 | up to 9 | up to 18 |
|--------------------------|--------------|-----------|--------------|---------------|---------|---------|---------------|-------------|
| Radial Led strips | | | | | | | | |
| Led strip 18 | OS20/300/R18 | 23 | PTDC/3/24V/N | | | | PTDC/10/24V/B | PTDC/40/24V |
| Led strip 36 | OS20/300/R36 | 23 | | PTDC/10/24V/B | | | PTDC/40/24V | |

| Type | Code | Page ref. | up to 3 | up to 10 |
|-------------------------|------|-----------|--------------|---------------|
| Module/component | | | | |
| Module SMD | OLG4 | 21 | PTDC/3/12V/N | PTDC/10/12V/B |

*Caution:
only the use of VLM power supply units
and dimmers guarantee the VLM RGB LED
modules will work properly.*

Constant voltage power supply units for LED strips/modules with SMD and radial LEDs



PTDC/3/12V/N

Direct current power supply unit for installation. High efficiency, reduced weight and volume. Stabilised output voltage
Universal input voltage 95 – 240 Volt



PTDC/3/24V/N

Direct current power supply unit for installation. High efficiency, reduced weight and volume. Stabilised output voltage
Universal input voltage 95 – 240 Volt



PTDC/10/12V/B

Independent direct current power supply unit. High efficiency, reduced weight and volume. Stabilised output voltage
Universal input voltage 95 – 240 Volt
Equipped with screw clamps.



PTDC/10/24V/B

Independent direct current power supply unit. High efficiency, reduced weight and volume. Stabilised output voltage
Universal input voltage 95 – 240 Volt
Equipped with screw clamps.

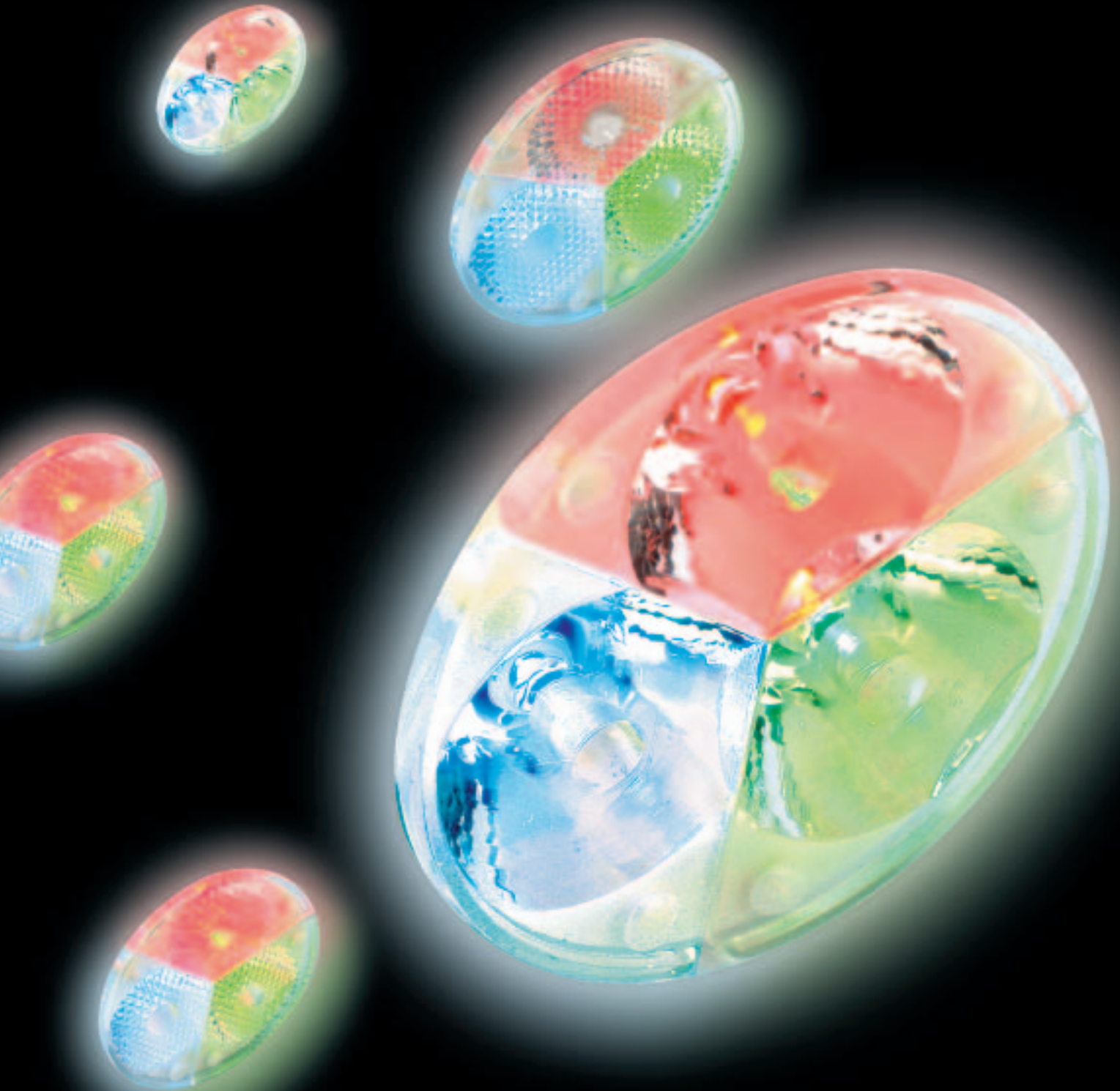


PTDC/40/24V

Independent direct current power supply unit. High efficiency. Stabilised output voltage
Universal input voltage 115 – 230 Volt
Supplied already wired with Europa power plug and connector for the load.

| Power Unit | | PTDC/3/ 24V/N | PTDC/10/ 24V/B | PTDC/40/ 24V | PTDC/3/ 12V/N | PTDC/10/ 12V/B |
|--------------------------|-----------------|------------------|-------------------|--------------------|------------------|-------------------|
| Nominal input voltage | V | 95 - 240 | 95 - 240 | 115 - 230 | 95 - 240 | 95 - 240 |
| Frequency | Hz | 50 - 60 | 50 - 60 | 50 - 60 | 50 - 60 | 50 - 60 |
| Output voltage | V DC | 24 | 24 | 24 | 12 | 12 |
| Power output at 110V | W | 3 | 10 | 28.8 | 3 | 9 |
| Thermal protection | | yes | yes | yes | yes | yes |
| Overload protection | | yes | yes | yes | yes | yes |
| Overcurrents protection | | yes | yes | yes | yes | yes |
| Short circuit protection | | yes | yes | yes | yes | yes |
| Input cables | mm ² | 0.5 - 2.5 | 2x0.75 | 2x0.75 | 0.5 - 2.5 | 2x0.75 |
| Output cables (max) | mm ² | 0.5 - 2.5 | 0.5 - 2.5 | jack diam. 5.5-2.1 | 0.5 - 2.5 | 0.5 - 2.5 |
| Dimensions | mm | 40x42x21 | 34x115x19 | 65x120x40 | 40x42x21 | 34x115x19 |
| Weight | g | 45 | 60 | 330 | 45 | 60 |

VLM Program
RGB LED



Spot for installation with 3 MULTI-CHIP RGB LEDs

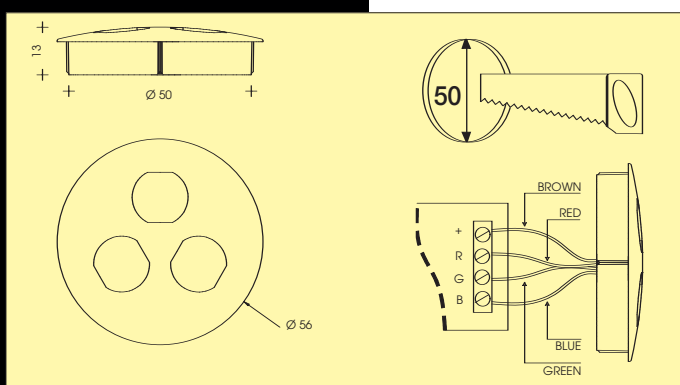
OSP/L45/SH3/RGB series (50 mm hole)



- made with Multi-Chip LEDs, each LED with three colours
- three built in 45° lenses - white plastic body
- equipped with connection cables (approx. 20cm)

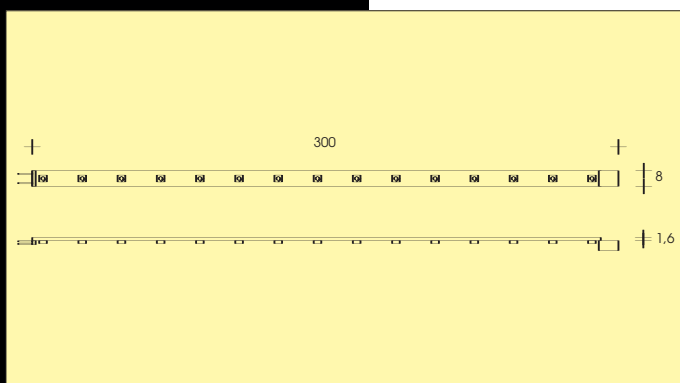
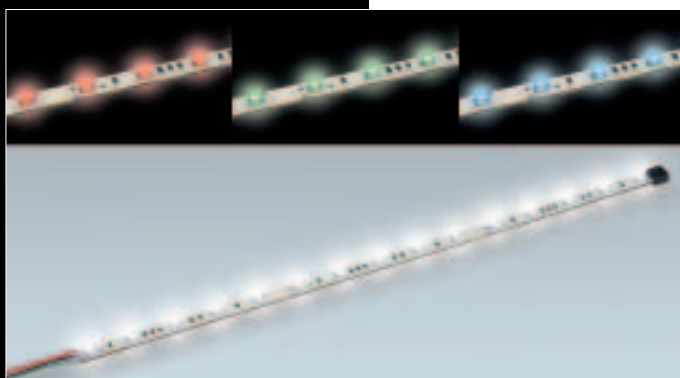
To be used with VLM colour control dimmer mod. DL/RGB/24V or DLDC/RGB plus power supply unit suitable for the number of modules to connect (see table on page. 33)
Max. temp. on metal body (TC) 85°C

PARALLEL CONNECTION



| OSP/L45/SH3/RGB | | Red | Blue | Green |
|-----------------|-------|------|------|-------|
| Nominal current | mA | 35 | 35 | 35 |
| Power | W | 0.12 | 0.18 | 0.18 |
| Luminous flux | lumen | 1.5 | 0.65 | 2.16 |
| Total max power | W | 2.5 | | |

Modular strips with 15 MULTI-CHIP RGB LEDs OS8/OSM8/RGB series



- made with Multi-Chip LEDs, each LED with three colours
- particularly suitable for outlining routes on the ground and/or walls
- length: 300 mm - width: 8 mm
- lighting angle: 120°

Available in:

- version with connection cables with cross section 0.75 sq. mm (OS8/...)
- version with connectors for connection in series (OSM8/...)

OS8/300/S15/RGB: with connection cables

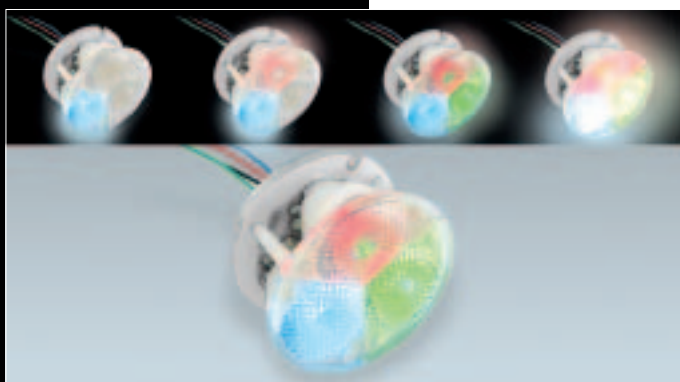
OSM8/300/S15/RGB: with connectors

To be used with VLM colour control dimmer mod. DL/RGB/24V or DLDC/RGB plus power supply unit suitable for the number of strips to connect (see table on page. 33)
Max. temperature on the LED soldering tag (TC): 85°C

Max. no. of modules that can be connected: 14

| OS8/300/S15/RGB | | Red | Blue | Green |
|-------------------------|-------|------------|-------------|--------------|
| Nominal current | mA | 150 | | |
| Total power | W | 3.6 | | |
| Nominal input voltage | V | 24 | | |
| Luminous flux | lumen | 14.5 | 3.3 | 14 |
| Approximate wave length | W | 617 | 455 | 528 |

Modules/components with 3 RGB power LEDs OSP/LF/RGB series



- made with three power LEDs (1 red, 1 green, 1 blue)
- 6°, 30° or 45° built in lens
- equipped with connection cables (approx. 20cm)

Important: the series has the same diameter (51 mm) as dichroic MR16 (GU5.3)

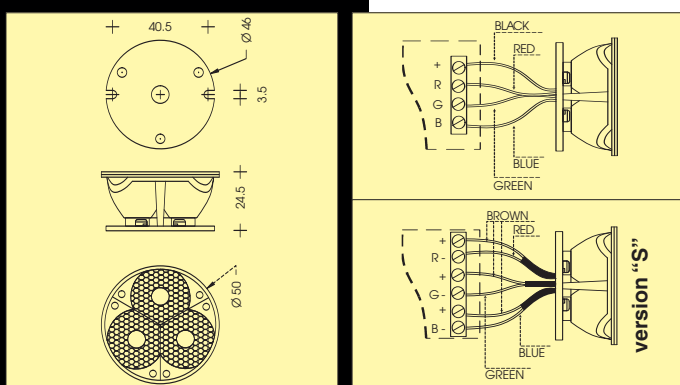
OSP/LF6/RGB: with 6° lens

OSP/LF30/RGB: with 30° lens

OSP/LF45/RGB: with 45° lens

Also available in version "S" for serial connection to more than one module

To be used with VLM colour control dimmer mod. VLM DL/RGB/24V or DLDC/RGB (only for version "S") plus power supply unit suitable for the number of modules to connect (see table on page. 33)
 Max. temp. on metal body (TC): 85°C



| OSP/LF6/RGB OSP/LF30/RGB OSP/LF45/RGB | | Red | Blue | Green |
|---|-------|---------|---------|---------|
| Nominal current | mA | 350 | 350 | 350 |
| Maximum power | W | 1.2 | 1.4 | 1.4 |
| Average luminous flux | lumen | 27 | 16 | 53 |
| Lighting angle | ° | 6/30/45 | 6/30/45 | 6/30/45 |
| Approximate wave length | nm | 625 | 455 | 530 |

Submersion proof minispot with 3 RGB power LEDs

OSP/IP/D3/RGB series IP68 for submersion



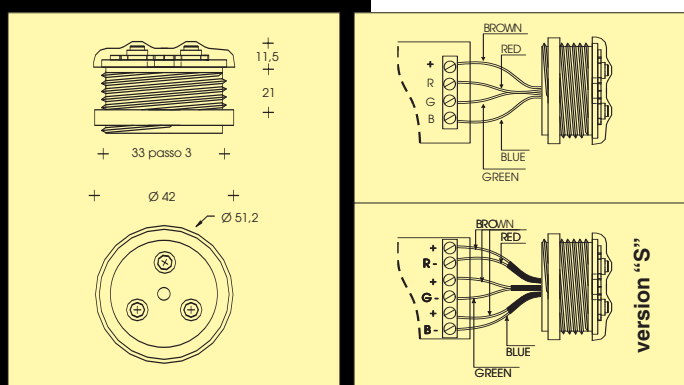
- made with three power LEDs (1 red, 1 green, 1 blue)
- moulded in shock proof material
 - threaded body M33x3
 - supplied with fixing ring nut
- equipped with connection cables (approx. 50cm)

Also available in version "S" for serial connection to more than one module

To be used with VLM colour control dimmer mod. DL/RGB/24V or DLDC/RGB (only for version "S")

plus power supply unit suitable for the number of modules to connect (see table on page. 33)

Max. temp. on metal body (TC): 85°C



| OSP/IP/D3/RGB | | Red | Blue | Green |
|---------------------------|-------|-----|------|-------|
| Nominal current | mA | 350 | 350 | 350 |
| Power | W | 1.2 | 1.5 | 1.4 |
| Average luminous flux | lumen | 27 | 10 | 40 |
| Approximative wave length | nm/K | 617 | 470 | 530 |

Power supply units and dimmers for LED RGB modules

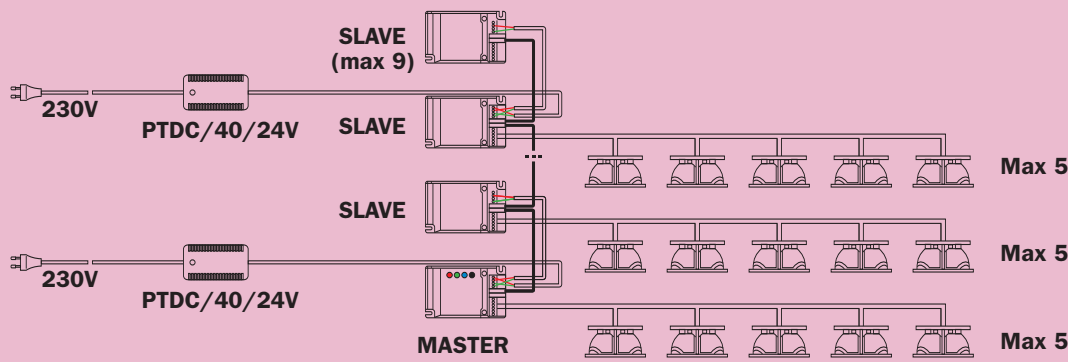
How many modules do you want to connect?

| Typ | Code | Page ref. | up to 2 | up to 3 | up to 8 | up to 12 |
|---|------------------|-----------|--------------|--------------|-----------------|-----------------|
| RGB systems with MULTI-CHIP LEDs | | | | | | |
| Strip 15 RGB LED | OS8/300/S15/RGB | 30 | PTDL/RGB/24V | | PTDL/RGB/40/24V | |
| Strip 15 RGB LED | OS8M/300/S15/RGB | 30 | PTDL/RGB/24V | | PTDL/RGB/40/24V | |
| Minispot 3 RGB LED | OSP/L45/SH3/RGB | 29 | | PTDL/RGB/24V | | PTDL/RGB/40/24V |

| Typ | Code | Page ref. | 1 |
|---|---------------|-----------|-------------|
| RGB systems with 3 power LEDs (white, green, blue) | | | |
| Spot 3x1W | OSP/LF6/RGB | 31 | PTDL/RGB/L1 |
| Spot 3x1W | OSP/LF30/RGB | 31 | |
| Spot 3x1W | OSP/LF45/RGB | 31 | |
| Submersion proof Minispot 3x1W | OSP/IP/D3/RGB | 32 | |

*Caution:
only the use of VLM power supply units
and dimmers guarantee the VLM RGB LED
modules will work properly.*

| Typ | Code | Page ref. | up to 5 | up to 10 | up to 50 |
|--|----------------|-----------|------------------------------------|--|--|
| RGB systems with 3 power LEDs version "S" | | | | | |
| Minispot 1x3W | OSP/LF6S/RGB | 31 | DLDC/RGB (Master) + PTDC/40/24V | DLDC/RGB (Master) + DLDC/RGB/SL (Slave) + PTDC/40/24V | DLDC/RGB (Master) + 9xDLDC/RGB/SL (Slave) + 5xPTDC/40/24V |
| Minispot 1x3W | OSP/LF30S/RGB | 31 | | | |
| Minispot 1x3W | OSP/LF45S/RGB | 31 | | | |
| Submersion proof Minispot 3x1W | OSP/IP/D3S/RGB | 32 | | | |



Notes: (1) dimmer DL/RGB/L1 can be replaced by professional dimmer DLDC/RGB
(2) dimmer DL/RGB/24V can be replaced by professional dimmer DLDC/RGB



PTDL/RGB/24V

(DL/RGB/24V + PTDC/10/24V/B)

Three-channel colour control module wired with appropriate VLM electronic power supply unit of the PTDC series
Dimming functionality separated for each channel with a special key.
Special variable colour program at each power supply reset.



PTDL/RGB/40/24V

(DL/RGB/24V + PTDC/40/24V)

Three-channel colour control module wired with appropriate VLM electronic power supply unit of the PTDC series
Dimming functionality separated for each channel with a special key.
Special variable colour program at each power supply reset.



PTDL/RGB/L1

(DL/RGB/L1 + PTDC/10/6V/B)

Three-channel colour control module wired with appropriate VLM electronic power supply unit of the PTDC series
Dimming functionality separated for each channel with a special key.
Special variable colour program at each power supply reset.



DLDC/RGB

Professional three-channel colour control module for RGB Multichip LEDs
Dimming functionality separated for each channel with a special potentiometer (or key) and possible IR remote control 3 colour changing programs that can be selected with the appropriate key.
To be used with 24V power unit supplying the power required according to the load.
Storage of the colour/program on power down, even at main power failure.
ON/OFF key
Possibility of synchronised functionality of master (DLDC/RGB) and slave (DLDC/RGB/SL).



DLDC/RGB

Professional three-channel colour control module for RGB power LEDs
Dimming functionality separated for each channel with a special potentiometer (or key) and possible IR remote control 3 colour changing programs that can be selected with the appropriate key.
To be used with 24V power unit supplying the power required according to the load.
Storage of the colour/program on power down, even at main power failure.
ON/OFF key
Possibility of synchronised functionality of master (DLDC/RGB) and slave (DLDC/RGB/SL).

| Power unit | | PTDL/RGB/24V | PTDL/RGB/40/24V | PTDL/RGB/L1 | DLDC/RGB | DLDC/RGB |
|-----------------------|-----------------|--------------|--------------------|-------------|----------|----------|
| Nominal input voltage | V | 95 - 240 | 95 - 240 | 95 - 240 | 24 | 24 |
| Frequency | Hz | 50 - 60 | 50 - 60 | 50 - 60 | | |
| Output current | mA | 350 | 350 | 350 | max 625 | 350 |
| Output power at 110V | W | 10 | 40 | 10 | | |
| Output voltage | V | 24 | 24 | 24 | | |
| Input cables | mm ² | 2x0.75 | 2x0.75 | 2x0.75 | 1.5 | 1.5 |
| Output cables (max) | mm ² | 4x0.50 | jack diam. 5.5-2.1 | 4x0.5 | 1.5 | 1.5 |



”powered by“

VLM LED systems

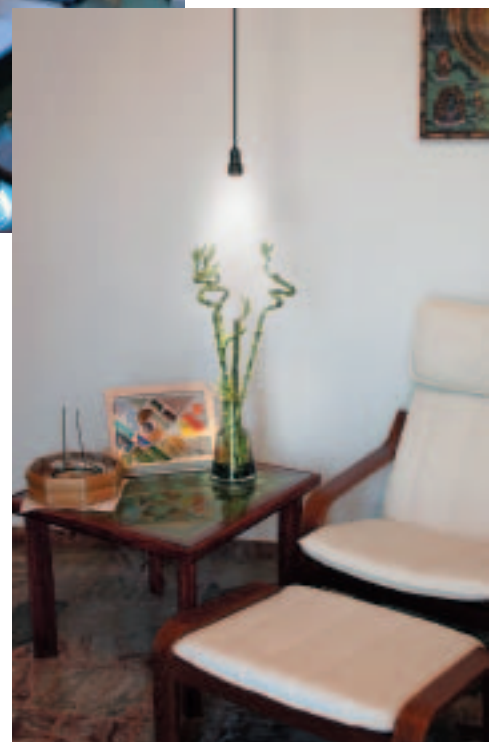
Examples of products and application





ARKISPOT

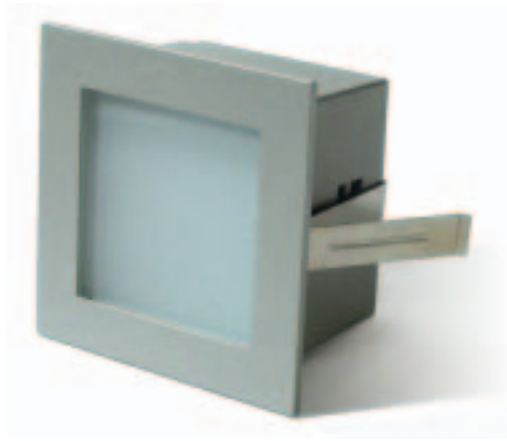
For ceilings and walls.
Material: polyamide 66-RV.
Pendant version (cable or lamp pedestal) or with adjustable lamp holder.
LED modules: 1x1W PowerLED and 3x1W PowerLED.
LED colours: white, red, green, yellow, blue.



For information regarding to this products we kindly ask you to contact us.

SIGN/STEPLIGHT

For installation, adjustable
Material: aluminium
or white painted metal
LED module : 1x1.4W LED.
LED colours: white, red, green,
yellow, blue.



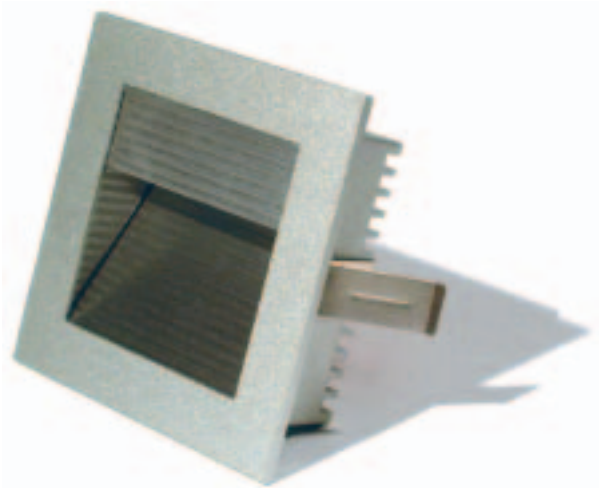
LED POT

For installation, adjustable
Material: stainless steel.
or white painted metal
LED module : 1x1W PowerLED.
LED colours: white, red, green,
yellow, blue.

LED EYE

DESIGN

For installation
Materials: polycarbonate (diffuser) - aluminium (body).
Round and square version.
LED module : 1x1W PowerLED.
LED colours: white, red, green, yellow, blue.





MAGNUM

Material: stainless steel.
Version with or without built
in power unit.
LED modules: 2x3.2W LED.
LED colours: white, red,
green, yellow, blue,



CANNON

Material: stainless steel.
LED modules: 1x3.2W LED.
LED colours: white, red,
green, yellow, blue,

For information regarding
to this products we kindly
ask you to contact us.



LEDSi

System consisting of LED units clamped on a flexible electric bar

Materials: polycarbonate (led unit) - PVC (flexible bar)

LED module : 1x1W PowerLED (for each unit)

LED colours: white, red, green, yellow, blue.

Design: Francesco Iannone (Italy).



LEDSignum

LED system for on the spot lighting of signs

Made of glass or methacrylate. Consisting of a bar/carrier containing modular Ledstrips connected in series and a plate, with engraved or imprinted writing/images.

Available in a version with SMD LEDs (white, red, green, yellow, blue); or with RGB Multi-chip LEDs (programmable colour variations)

Design: Staffan Svensson/Frinab (Sweden).





Private villa,
lighting around the
inside swimming
pool IVELA built in
lights

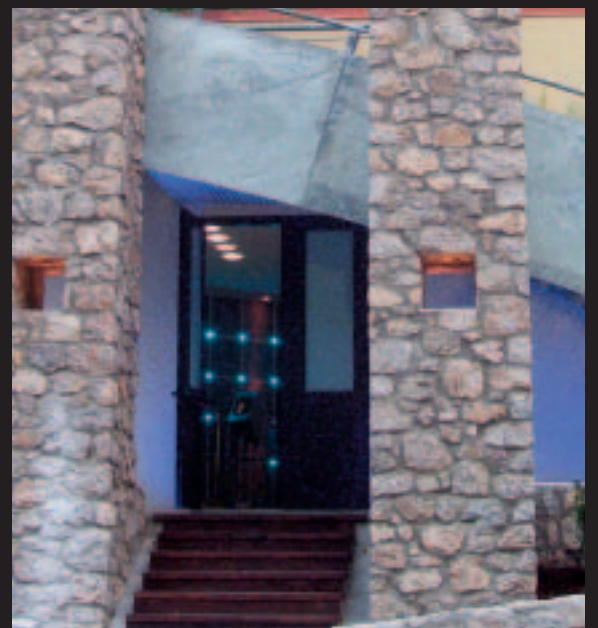




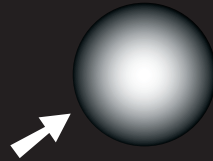
Rai, 'Fiorello Revolution' programme Set designed by Gaetano Castelli Installed by Nova Impianti 99



"The Emperor's Clothes" Exhibition
Rotonda della Besana, Milan



Mauri plant, Pasturo (LC) - Entrance
Design Consuline/F. Iannone



The Different Light™

Alico

Alico Industries Inc.
2600 John Street
Unit 206
Markham, Ontario
L3R 3W3
Canada
Tel: 905.305.6606
Fax: 905.305.6191
Email:
us.sales@alicoindustries.com

Illumineer Ltd.
61 Long Branch Ave.
Etobicoke Ontario Canada
M8W 3J3
Tel. 416-575-2011
Fax. 416-255-3201
info@illumineer.ca
www.illumineer.ca

www.alicoindustries.com

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