



Develop  
your custom  
solution

18  
Standard  
Colours

Base  
IP65  
Protection Degree

24  
Vdc

Optional  
Polarizing  
Filter

Optional  
IO-Link  
External  
controller

CE  
RoHS

UK  
CA

C<sup>®</sup>UL<sup>®</sup>US  
E545377 Class 2

**Illuminator Features :**

- Project achieved by internal resources and Genesi skills;
- Model with transparent and opaline cover
- Model with 10°,20°,25°,40°and 60° lenses

| COLOUR     | WHITE          |                | UV-A        |             |             |             | VISIBLE       |                |              |                   | NIR         |             |             | SWIR           |                |                |                |                |
|------------|----------------|----------------|-------------|-------------|-------------|-------------|---------------|----------------|--------------|-------------------|-------------|-------------|-------------|----------------|----------------|----------------|----------------|----------------|
| Led Colour | White<br>6000K | White<br>4000K | UV<br>365nm | UV<br>385nm | UV<br>395nm | UV<br>405nm | Blue<br>450nm | Green<br>524nm | Red<br>625nm | Deep Red<br>660nm | IR<br>730nm | IR<br>850nm | IR<br>950nm | SWIR<br>1050nm | SWIR<br>1200nm | SWIR<br>1300nm | SWIR<br>1450nm | SWIR<br>1550nm |
|            | -6K            | -4K            | -365        | -385        | -395        | -405        | -450          | -524           | -625         | -660              | -730        | -850        | -950        | -1050          | -1200          | -1300          | -1450          | -1550          |

Ex. Code : **GEMXXX**-**YYY**-**CCC**-**WW1**-**WW3**

| XXX    | Base Lengths                  | -YYY  | Led Colours           |         | EN 62471 | -CCC  | Powers                         | -WW1  | Cover variants                        |
|--------|-------------------------------|-------|-----------------------|---------|----------|-------|--------------------------------|-------|---------------------------------------|
| GEM03  | 3 cm                          | -6K   | Base 6000K Cold White | White   | RISK1    |       | Base 120 mA per led up to 200  | -T    | Base Transparent cover                |
| GEM05  | 5 cm                          | -4K   | 4000K Natural White   |         |          | -20   | 20 mA per led                  | -OP   | Base Opaline cover                    |
| GEM09  | 9 cm                          | -365  | UV 365 nm             | UV - A  | RISK3    | -40   | 40 mA per led                  | -L10  | 10° lens                              |
| GEM18  | 18 cm                         | -385  | UV 385 nm             |         |          | -70   | 70 mA per led                  | -L20  | 20° lens + transparent cover          |
| GEM25  | 25 cm                         | -395  | UV 395 nm             |         |          | -85   | 85 mA per led                  | -L25  | 25° lens                              |
| GEM34  | 34 cm                         | -405  | UV 405 nm             |         |          | -300  | 300 mA per led only strobe use | -L40  | 40° lens + transparent cover          |
| GEM42  | 42 cm                         | -RGB  | RGB                   | Visible | RISK1    | -RA10 | Analog reg 0-10V               | -L60  | 60° lens + transparent cover          |
| GEM50  | 50 cm                         | -450  | 450 nm Royal Blue     |         |          | -RA24 | Analog reg 0-24V               | -TP   | Polarizing filter + Transparent cover |
| GEM100 | 100 cm                        | -524  | 524 nm Green          |         |          | -CC   | Current Control                | -WW1  | Cover on demand                       |
| GEM200 | 200 cm                        | -6KR  | Bicolour 6K + Red     |         |          | -CCC  | Current on demand              |       |                                       |
| GEMXXX | from 3 cm to 600 cm on demand | -6KB  | Bicolour 6K + Blue    |         |          |       |                                |       |                                       |
|        |                               | -6KG  | Bicolour 6K + Green   | Nir     | RISK2    |       |                                | -WW3  | Cables                                |
|        |                               | -625  | 625 nm Red            |         |          |       |                                |       | Base 2 Mt cable 2 wires               |
|        |                               | -660  | 660 nm Deep Red       |         |          |       |                                | -M8   | 20 cm cable + M8 3P M                 |
|        |                               | -730  | 730 nm IR             |         |          |       |                                | -M12  | 20 cm cable + M12 5P M                |
|        |                               | -850  | 850 nm IR             |         |          |       |                                | -S    | 2 Mt cable + logic start              |
|        |                               | -950  | 950 nm IR             | Swir    | RISK2    |       |                                | -M8S  | 20 cm cable + M8 3P M + logic start   |
|        |                               | -1050 | 1050 nm SWIR          |         |          |       |                                | -M12S | 20 cm cable + M12 5P M + logic start  |
|        |                               | -1200 | 1200 nm SWIR          |         |          |       |                                | -5M   | 5 Mt 2P cable                         |
|        |                               | -1300 | 1300 nm SWIR          |         |          |       |                                | -5MS  | 5 Mt 3P cable + logic start           |
|        |                               | -1450 | 1450 nm SWIR          |         |          |       |                                | -WW3  | Supply connection on demand           |
|        |                               | -1550 | 1550 nm SWIR          |         |          |       |                                |       |                                       |
|        |                               | -YYY  | Colour on demand      |         |          |       |                                |       |                                       |

Not all combinations are available

Part Number Examples:

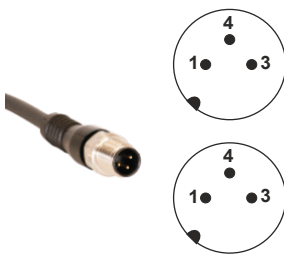
**GEM25-6K-OP**  
Bar light 25cm White 6000K Opaline cover 1230Lm 340mA 8,2W 2 Mt cable 2 Wires

**GEM25-625-L10**  
Bar light 25cm Red 625nm 10° Lens cover 340mA 8,6W 2Mt cable 2 Wires

**GEM230-6KB-OP-M12**  
Bar light 230cm White 6000K + Blue 470nm opaline cover 3,23A 20cm M12 5P M

# PIN OUT

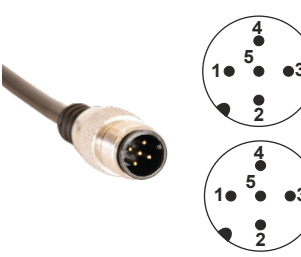
**-M8 / -M8S**



| M8 - Male 3 Poles |       |
|-------------------|-------|
| 1                 | +24 V |
| 3                 | GND   |
| 4                 | NC    |

| M8S - Male 3 Poles |       |
|--------------------|-------|
| 1                  | +24 V |
| 3                  | GND   |
| 4                  | Start |

**-M12 / -M12S**



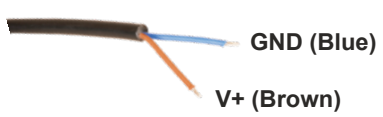
| Under 4 A          |       |
|--------------------|-------|
| M12 - Male 5 Poles |       |
| 1                  | +24 V |
| 2                  | NC    |
| 3                  | GND   |
| 4                  | NC    |
| 5                  | NC    |

| Over 4 A           |       |
|--------------------|-------|
| M12 - Male 5 Poles |       |
| 1                  | +24 V |
| 2                  | +24 V |
| 3                  | GND   |
| 4                  | NC    |
| 5                  | GND   |

| Under 4 A           |           |
|---------------------|-----------|
| M12S - Male 5 Poles |           |
| 1                   | +24 V     |
| 2                   | NC        |
| 3                   | GND       |
| 4                   | Start PNP |
| 5                   | NC        |

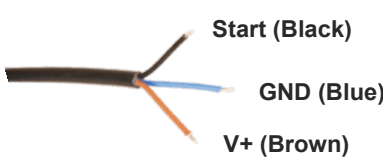
| Over 4 A            |           |
|---------------------|-----------|
| M12S - Male 5 Poles |           |
| 1                   | +24 V     |
| 2                   | +24 V     |
| 3                   | GND       |
| 4                   | Start PNP |
| 5                   | GND       |

**-5M / -10M**



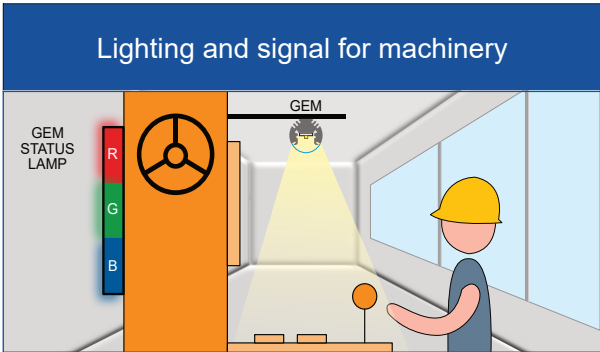
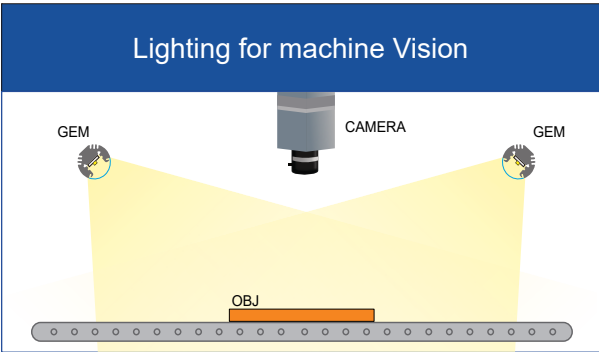
GND (Blue)  
V+ (Brown)

**-S / -5MS / -10MS**

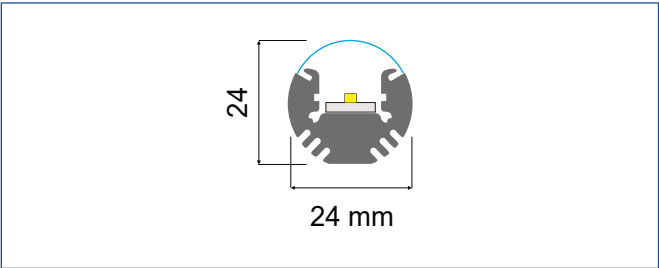


Start (Black)  
GND (Blue)  
V+ (Brown)

# TYPICAL APPLICATIONS



## MECHANICAL DRAWING

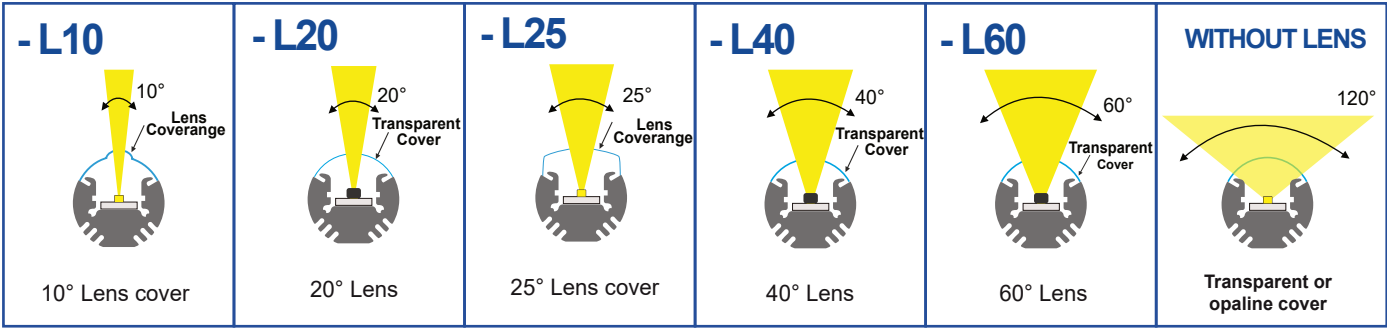


## FIXING

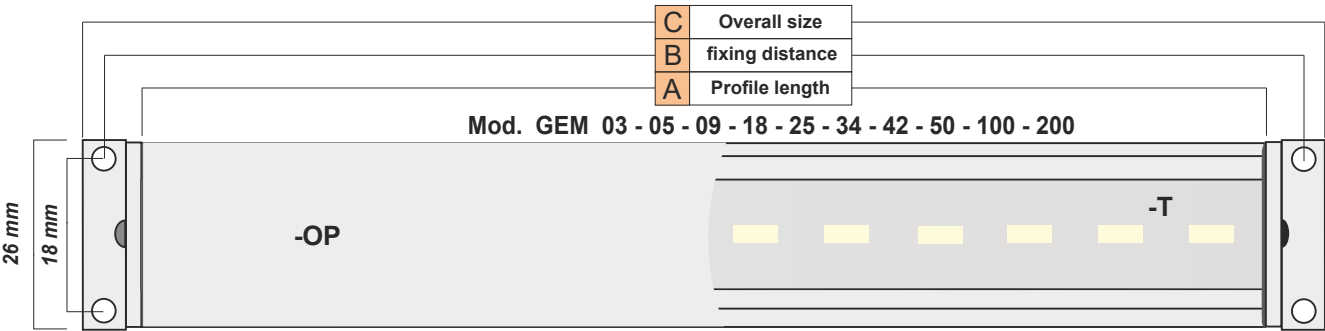


For 3D mechanical drawing requests - [info@genesi-lux.it](mailto:info@genesi-lux.it)

# BEAM ANGLES



# BASE MODEL LENGTHS & POWERS



**WORKING TEMPERATURE RANGE**  
FROM - 35°C ( NO FROST) TO + 55°C

| Mod.                         | A ( mm ) | B ( mm ) | C ( mm ) | Supply voltage | Supply current | Power consumption |
|------------------------------|----------|----------|----------|----------------|----------------|-------------------|
| GEM03                        | 30       | 50       | 59       | 24/vdc +/- 10% | 70mA           | 1,6 W             |
| GEM05                        | 50       | 70       | 70       |                | 85mA           | 2,0 W             |
| GEM09                        | 89       | 110      | 119      |                | 120mA          | 2,9 W             |
| GEM18                        | 176      | 197      | 206      |                | 230mA          | 5,4 W             |
| GEM25                        | 246      | 267      | 276      |                | 340mA          | 8,2 W             |
| GEM34                        | 340      | 361      | 370      |                | 450mA          | 10,8 W            |
| GEM42                        | 419      | 440      | 449      |                | 570mA          | 13,7 W            |
| GEM50                        | 497      | 518      | 527      |                | 680mA          | 16,4 W            |
| GEM100                       | 999      | 1020     | 1029     |                | 1360mA         | 32,8 W            |
| GEM200                       | 1999     | 2020     | 2029     |                | 2720mA         | 65,6 W            |
| GEMXXX from 30 mm to 6000 mm |          |          |          |                |                |                   |

# LIGHT POWER TEST

Transparent



Opaline



| GEM50-6K-T       |            |
|------------------|------------|
| Working Distance | Power W/m² |
| 20 cm            | 30         |
| 40 cm            | 11         |
| 100 cm           | 2,2        |

| GEM50-6K-OP      |            |
|------------------|------------|
| Working Distance | Power W/m² |
| 20 cm            | 14,5       |
| 40 cm            | 5,3        |
| 100 cm           | 1          |

## Tailor-Made

| Connector | PINS | Function | Description |
|-----------|------|----------|-------------|
|           | 1    |          |             |
|           | 2    |          |             |
|           | 3    |          |             |
|           | 4    |          |             |
|           | 5    |          |             |

**DEVELOP YOUR CUSTOM PRODUCT WITH OUR R&D TEAM**



### NEW SOLUTION

DESIGN A NEW ONE

[info@genesi-lux.it](mailto:info@genesi-lux.it)



### SAMPLE

TEST THE PRODUCT

[info@genesi-lux.it](mailto:info@genesi-lux.it)



### DOWNLOAD

TECHNICAL SPECIFICATIONS

[www.genesi-elettronica.com](http://www.genesi-elettronica.com)

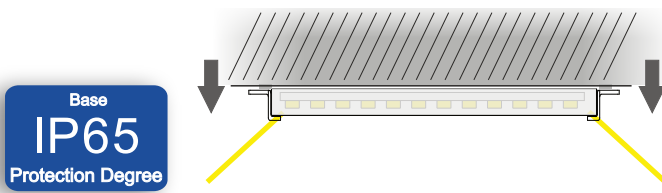


### REQUEST

THE PRICE LIST

[info@genesi-lux.it](mailto:info@genesi-lux.it)

The indicated IP protection degree is guaranteed only if the product is positioned downward



| STANDARDS                                                                            |                    |
|--------------------------------------------------------------------------------------|--------------------|
| EMC immunity :                                                                       | EN 61547:2009      |
| EMC emission :                                                                       | EN 55015:2019      |
| Photobiologic risk :                                                                 | EN 62471:2008 GLS: |
| Assessment of lighting equipment related to human exposure to electromagnetic fields | EN 62493:2015      |

### WARNING

-Electrical device exclusively for professional use. Installation can be done by qualified personnel only.  
-In case of power supply wire damage, its replacement has to be done at the head office exclusively.

Warranty loss in case of inappropriate use and tampering.



Design & Production  
Made in Italy



**Genesi LUX®**

GENESI ELETTRONICA SRL - VIA BACHELET, 3/A - 41057 SPILAMBERTO (MO) - ITALY  
[info@genesi-lux.it](mailto:info@genesi-lux.it) - TEL. +39 059785566 - [www.genesi-elettronica.com](http://www.genesi-elettronica.com)

©All Rights Reserved GENESI ELETTRONICA - GEM



Organization with a  
certified ISO 9001:2015  
Quality Management System

Rev. 01/25