

## GENERAL PRODUCT INFORMATION

**Une version française de cette notice est disponible à partir de la page 6 de ce document**

Thank you for purchasing an Efflux's product. To ensure proper use of the product, please read this *User manual* before use and keep it for your future reference. Any improper use voids the warranty. This product should be used for machine vision and industrial inspection. Do not use the product for other applications, and be sure to follow the instructions below.

Datasheets and drawings in PDF and/or CAD can be downloaded from the Efflux website: [www.ffmpeg.com](http://www.ffmpeg.com)

The label(s) on the product always indicate(s) the reference, the power consumption and the serial number of the product. Be sure to check the content before using the product and handle the label(s) with care. The date of manufacturing is included in the serial number of the product: XXXXXYYMM-ZZZ with YY corresponding to the year and MM to the month. If the label is missing or damaged and the content cannot be checked, please contact Efflux.

## GENERAL WARNINGS AND PRECAUTIONS OF USE

### OPERATING AND STORAGE ENVIRONMENTS

|                       |                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------|
| Operating environment | Temperature: 0 to 40°C - Humidity: 20 to 85RH% (without condensation) - Altitude: Up to 2000m |
| Storage environment   | Temperature: -20 to 60°C - Humidity: 20 to 85RH% (without condensation)                       |
| Informations          | Overvoltage category I - Protective class III - Pollution degree 3                            |

Except if a specific IP rating is given for your product (refer to the «Dust and Water resistance (IP rating) » section), please install the product in locations under the following conditions (Incorrect installations may cause product failure) :

|                                                                                  |                                                  |
|----------------------------------------------------------------------------------|--------------------------------------------------|
| Well-ventilated places with minimal dust.                                        | Free from any liquid, chemical product or steam. |
| Free from corrosive or combustible gas.                                          | Not subject to sudden temperature changes.       |
| Away from water taps, boilers, humidifiers, air conditioners, heaters or stoves. |                                                  |

### USER SECURITY

Incorrect use of the product may result in fire, electric shock, or other serious damages. Please ensure to follow below conditions. If an abnormal condition occurs (fuming, heat, noises, etc.), stop using the product immediately and turn the power off.

|                                                                                                         |                                                                                                        |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Do not disassemble or modify the product.                                                               | Do not look directly at the LED light without protection.                                              |
| Do not try to fix any damages on the product by yourself.                                               | Make sure special protective glasses are used with UV products (<420nm).                               |
| Do not touch the product with wet hands.                                                                | Do not use homemade cables.                                                                            |
| Wire and keep the flying leads cables in a dry area (regardless of the product's degree of protection). | Make sure the product does not show any moisture or liquid inside before switching it ON.              |
| Make sure the power supply and the cable/connector are adapted to the product specifications.           | The device must be powered by a 24V safety power supply in accordance to local Electrical Safety rules |
| Do not inverse electrical polarity - check your connections and the conventions.                        | The product packaging must be removed before use.                                                      |

## VERSIONS & PART-NUMBER

The EFFI-Dimmer2 has been designed to adjust the light intensity of our products with a manual potentiometer. It is compatible with both older products working in single mode or new multimode products thanks to its two outputs (1 and 2).

Two versions: standard and power, exists to match the wiring of our lights either in M12 or M12P (M12 Power).

|          |                                                               |
|----------|---------------------------------------------------------------|
| STANDARD | EFFI-DIMMER2<br>For products with M12 connectors              |
| POWER    | EFFI-DIMMER2- <b>PWR</b><br>For products with M12P connectors |

## AVAILABLE ACCESSORIES

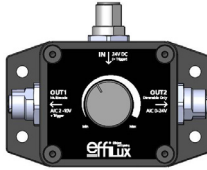
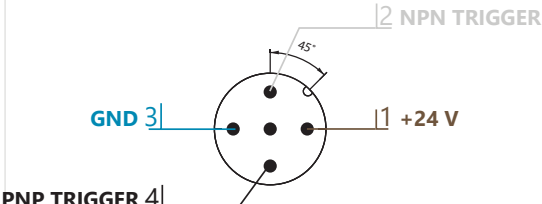
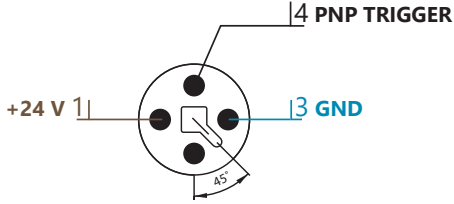
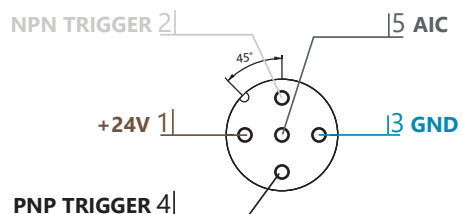
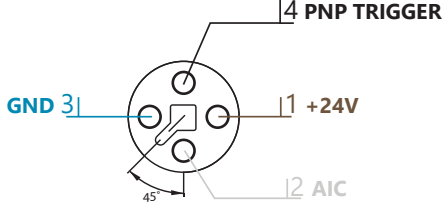
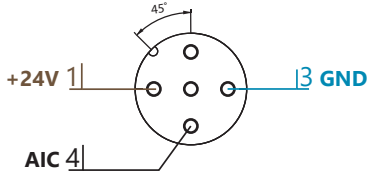
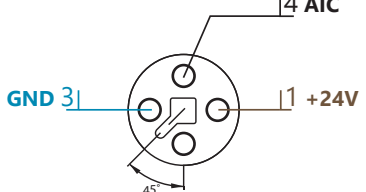
Please refer to the datasheet for additional information on the accessories of the EFFI-Dimmer2.

| EXTENSION CABLES | M12 - Female / Male - 5 pins                                                                                  | M12P - Female / Male - 4 pins                                                                                    |
|------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|                  | 2 meters: EFFC-CAB-M12-FM-5-DD-L2<br>5 meters: EFFC-CAB-M12-FM-5-DD-L5<br>10 meters: EFFC-CAB-M12-FM-5-DD-L10 | 2 meters: EFFC-CAB-M12P-FM-4-DD-L2<br>5 meters: EFFC-CAB-M12P-FM-4-DD-L5<br>10 meters: EFFC-CAB-M12P-FM-4-DD-L10 |

## GENERAL SPECIFICATIONS

|                                  |                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Product compatibility</b>     | Every EFFILUX lights using M12/M12P - M12 or M12P depending on the version                      |
| <b>Power Supply</b>              | 24V DC (+/-10%)                                                                                 |
| <b>Power consumption</b>         | 1W                                                                                              |
| <b>Connectors</b>                | M12/M12P - 5/4 Contacts (depending on the version)                                              |
| <b>Weight</b>                    | 200g                                                                                            |
| <b>Dimensions</b>                | Width x length x height = 95mm x 58mm x 51mm ( <i>Drawings page 4</i> )                         |
| <b>Fastener</b>                  | 4 holes (5,5mm diameter)                                                                        |
| <b>IP rating</b>                 | IP5X (dust protected)                                                                           |
| <b>Operation environment</b>     | Temperature: 0°C to 40°C - Humidity: 20 to 85%RH (with no condensation) - Altitude: Up to 2000m |
| <b>Storage environment</b>       | Temperature: -20° to 60°C - Humidity: 20 to 85%RH (with no condensation)                        |
| <b>Informations</b>              | Overvoltage category I - Protective class III - Pollution degree 3                              |
| <b>Regulations &amp; Marking</b> | CE - UKCA                                                                                       |
| <b>Environmental Standards</b>   | RoHS Directives (2011/65/EU, 2015/863/EU and China RoHS) - REACH Regulation - WEEE Regulation   |
| <b>Country of Origin</b>         | France                                                                                          |

# ELECTRICAL INSTALLATION

| Version                  | Standard                                                                                                    | Power                                                                                                          |
|--------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Part number              | EFFI-DIMMER2                                                                                                | EFFI-DIMMER2-PWR                                                                                               |
| Power consumption        | 1W                                                                                                          | 1W                                                                                                             |
| Type of INPUT connector  | 1x M12 male - 5 contacts                                                                                    | 1x M12P male - 4 contacts                                                                                      |
| Type of OUTPUT connector | 2x M12 female - 5 contacts                                                                                  | 2x M12P female - 4 contacts                                                                                    |
| Global setup             | <p><b>INPUT - M12</b></p>  | <p><b>INPUT - M12P</b></p>  |
| INPUT                    |                           |                            |
| OUTPUT 1                 |                          |                           |
| OUTPUT 2                 |                          |                           |

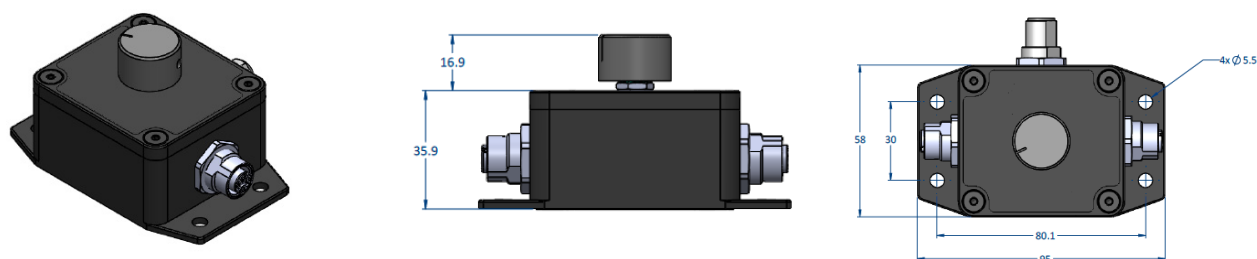
## Note:

- Set the trigger input @24V to dim the light (even in dimmable only configuration) and set the trigger input @0V to turn off the light

## MECHANICAL CONSIDERATION

|                   |                                                                         |
|-------------------|-------------------------------------------------------------------------|
| <b>Weight</b>     | 200g                                                                    |
| <b>Dimensions</b> | Width x length x height = 95mm x 58mm x 51mm ( <i>Drawings page 4</i> ) |
| <b>Fastener</b>   | 4 holes (5,5mm diameter)                                                |
| <b>IP rating</b>  | IP5X (dust protected)                                                   |

The EFFI-Dimmer2 can easily be attached with 4 screws positionned in the 4 holes (see the sketch below)



## REGULATIONS COMPLIANCY

|                                  |                                                                                               |
|----------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Regulations &amp; Marking</b> | CE - UKCA                                                                                     |
| <b>Environmental Standards</b>   | RoHS Directives (2011/65/EU, 2015/863/EU and China RoHS) - REACH Regulation - WEEE Regulation |
| <b>Country of Origin</b>         | France - Manufactured by Effilux                                                              |

# ENVIRONMENTAL REGULATIONS

## EU RoHS DIRECTIVE

The EU RoHS Directive is short for the «Restriction Of use of certain Hazardous Substances in electrical and electronic equipment». The EU RoHS Directive (2011/65/EU) restricts the use of specific hazardous substances for the new electronic equipment marketed in the EU. The Directive (EU) 2015/863 amending 2011/65/EU was published in 2015 to restrict the use of specific hazardous substances, including six conventional substances, lead (<0.1%), mercury (<0.1%), cadmium (<0.01%), hexavalent chromium (<0.1%), polybrominated biphenyl (PBB) (0.1%) and polybrominated diphenyl ether (PBDE) (<0.1%), as well as four substances (phthalate compounds), bis(2-Ethylhexyl) phthalate (DEHP) (<0.1%), benzyl butyl phthalate (BBP) (<0.1%), dibutyl phthalate (DBP) (<0.1%), diisobutyl phthalate (DIBP) (<0.1%). Our products do not contain the above certain hazardous substances in excess of the maximum permitted concentration. However, this does not apply if the product falls under the exemption.

## CHINA RoHS

China RoHS Directive is formally known as «Management Methods for Restricting Hazardous Substances Used in Electric and Electronic Products», which was implemented on July 1<sup>st</sup>, 2016 in China. Same as EU RoHS Directive (2011/65/EU), this regulation restricts the usage of same six substances. This regulation requires electronic information products which are manufactured or imported, and sold in China, to clearly disclose contents of the 6 restricted substances listed below.

| Usage Deadline for Environmental Protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Product names                                | Names and contents of hazardous substances |                                |                                |                                        |     |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------|--------------------------------|----------------------------------------|-----|------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                              | Lead and its compounds (Pb)                | Mercury and its compounds (Hg) | Cadmium and its compounds (Cd) | Hexavalent chromium compounds (Cr(VI)) | PBB | PBDE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LED light, Control Unit, or Optional product | ×                                          | ○                              | ×                              | ○                                      | ○   | ○    |
| (This table is made in compliance with SJ/T 11364 regulations.)<br>O : Indicates that this toxic or hazardous substances contained in all the homogeneous materials for this part, according to GB/T26572 is within the limit requirement<br>X : Indicates that this toxic or hazardous substance contained in all the homogeneous materials for this part, according to GB/T26572, is over the limit requirement<br>*Lead and cadmium are exempted in EU RoHS<br>Usage deadline for environmental protection<br>The number used in this logo is based on «Management Methods for Restricting Hazardous Substances Used in Electric and Electronic Products » and related regulations. It shows the product usage duration in years of environmental protection. After finishing a product usage, the product needs to be re-used or discarded appropriately following local law and regulations, complying with safety and usage caution. |                                              |                                            |                                |                                |                                        |     |      |

| 环保使用期限                                                                                                                                                                                                                                                                                         | 产品             | 有害物质的名称及含量  |             |             |                 |            |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------|-------------|-------------|-----------------|------------|--------------|
|                                                                                                                                                                                                                                                                                                |                | 铅及其化合物 (Pb) | 汞及其化合物 (Hg) | 镉及其化合物 (Cd) | 六价铬化合物 (Cr(VI)) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
|                                                                                                                                                                                                             | LED 照明、电源或任意附件 | ×           | ○           | ×           | ○               | ○          | ○            |
| (本表格依据SJ/T11364的规定编制。)<br>O : 表示该有毒有害物质在该部件所有均质材料中的含量均在GB/T26572标准规定的限量要求以下。<br>X : 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出GB/T26572标准规定的限量要求。<br>(注) 铅和镉中的“x”，因欧洲联盟RoHS没有限定，故用“○”表示。<br>环保使用期限<br>此标志的数字是根据电器电子产品有害物质限制使用管理办法以及有关标准等，表示该产品的环保使用期限的年数。遵守产品的安全和使用上的注意，在产品使用后采取适当的方法根据各地法律，规定，回收再利用或进行废弃处理。 |                |             |             |             |                 |            |              |

## WARRANTY

EFFILUX products come with a warranty of 2 years (one year for radiant quantity), starting from EFFILUX shipping date. Any improper use voids the warranty.

Exceptions: UV products (<420nm): 1-year warranty / Chillers: 1-year warranty / Polarizers are excluded from warranty.

For more information, please refer to the warranty information available on Effilux's website.

## CONTACT INFORMATION

Please refer to the specific documentation (datasheet, user manual and drawing) for complementary information. Contents of this document are based on information available as of December-2022 and may be changed without prior notice.



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## INFORMATIONS GÉNÉRALES

Effilux vous remercie de votre achat. Afin d'assurer le bon usage du produit, nous vous invitons à prendre connaissance de cette notice (*User manual*) avant utilisation et de la conserver pour vos futurs produits. Toute utilisation inappropriée entraîne une invalidation de la garantie. Ce produit est un éclairage à LED pour la vision industrielle, il ne doit pas être utilisé pour d'autres applications. Le produit doit être utilisé selon les instructions ci-dessous.

Les fiches produits et les plans (PDF et/ou CAO) sont disponibles directement sur le site web Effilux: [www.afilux.com](http://www.afilux.com)

Tous les produits sont étiquetés. Sont indiqués: la référence, la consommation, la tension d'alimentation requise et le numéro de série du produit. Assurez-vous que la référence corresponde à votre usage et que vous avez pris connaissance des informations indiquées sur l'étiquette. La date de fabrication est incluse dans le numéro de série du produit: XXXXXYYMM-ZZZ avec YY correspondant à l'année, MM au mois. Si l'étiquette est manquante ou endommagée de sorte à ce que les informations ne puissent pas être lues, contactez Effilux.

## PRÉCAUTIONS D'EMPLOI

### CONDITIONS DE STOCKAGE ET D'UTILISATION

|                              |                                                                                             |
|------------------------------|---------------------------------------------------------------------------------------------|
| Conditions de fonctionnement | Température: 0 to 50°C - Humidité: 20 à 85RH% (sans condensation) - Altitude: jusqu'à 2000m |
| Conditions de stockage       | Température: -20 to 60°C - Humidité: 20 à 85RH% (sans condensation)                         |
| Informations                 | Overvoltage category I - Protective class III - Pollution degree 3                          |

A part si le produit possède un indice de protection IP particulier, veillez à installer le produit dans les conditions ci-dessous (*Consultez la section indice de protection d'intrusion des solides et intrusion eau, une installation ne respectant pas les conditions énoncées est susceptible d'entraîner une défaillance du produit*) :

|                                                                                                           |                                                          |
|-----------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| Espace aéré avec un minimum de poussière                                                                  | Espace sans liquide, produits chimiques ou vapeur.       |
| Espace sans gaz corrosifs ou combustibles                                                                 | Espace non soumis à de rapides variations de température |
| Espace sans présence d'arrivée d'eau, chaudière, humidificateurs, climatisation, chauffage ou cuisineère. |                                                          |

### SÉCURITÉ DE L'UTILISATEUR

Une utilisation non appropriée peut entraîner un départ de feu, une décharge électrique ou des phénomènes représentant un danger. Assurez-vous de suivre les conditions d'utilisation dans le tableau ci-dessous. Si vous constatez l'apparition de phénomènes suspects comme un dégagement de fumée, un échauffement anormal, des bruits anormaux,...) coupez immédiatement l'alimentation du produit.

|                                                                                                            |                                                                                                                     |
|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Ne pas désassembler ou modifier le produit                                                                 | Ne pas regarder directement la lumière émise sans protection oculaire                                               |
| Ne pas tenter de réparer le produit par ses propres moyens                                                 | Assurez-vous de porter des lunettes de protection en cas de lumière UV <420nm                                       |
| Ne pas toucher le produit avec des mains humides                                                           | Ne pas utiliser de câbles non industriels                                                                           |
| Connectez et gardez les fils nus dans une zone sèche (indépendamment de l'indice de protection du produit) | Contrôlez que le produit ne présente aucune trace de moisissure ou de liquide à l'intérieur lorsque vous l'allumez. |
| Assurez-vous que l'alimentation et les câbles/connecteurs sont adaptés aux spécifications du produit       | Le produit doit être alimenté en 24 VDC selon les règles de sécurité électriques locales.                           |
| Ne pas inverser les pôles électriques - vérifiez les connexions et les conventions                         | Les éléments d'emballage doivent être retirés avant utilisation.                                                    |

## VERSIONS & PART-NUMBER

The EFFI-Dimmer2 a été conçu pour moduler la lumière de nos éclairages via un bouton manuel.  
Il est compatible avec nos produits en version continue dimmable et nos nouveaux produits multimodes grâce à ses deux sorties (1 et 2).

Deux versions ont été conçues pour s'adapter aux configurations M12 ou M12P (M12 power) de nos éclairages.

|          |                                                           |
|----------|-----------------------------------------------------------|
| STANDARD | EFFI-DIMMER2<br>Produits avec connecteur M12              |
| POWER    | EFFI-DIMMER2- <b>PWR</b><br>Produits avec connecteur M12P |

## ACCESSOIRES DISPONIBLES

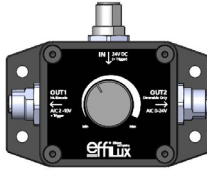
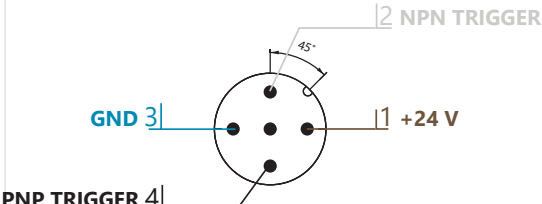
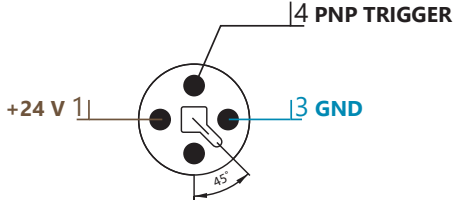
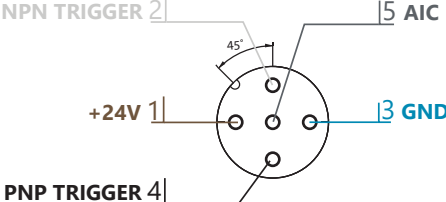
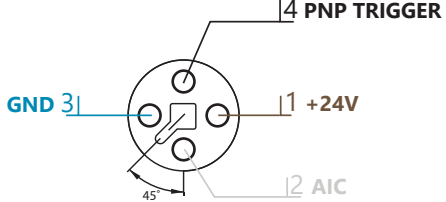
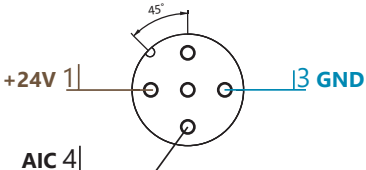
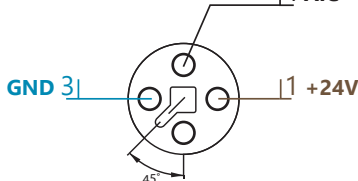
Pour plus d'informations se référer à la datasheet de l'EFFI-DIMMER2.

| CABLES | M12 - Femelle / Mâle - 5 pins                                                                                 | M12P - Femelle / Mâle - 4 pins                                                                                   |
|--------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
|        | 2 meters: EFFC-CAB-M12-FM-5-DD-L2<br>5 meters: EFFC-CAB-M12-FM-5-DD-L5<br>10 meters: EFFC-CAB-M12-FM-5-DD-L10 | 2 meters: EFFC-CAB-M12P-FM-4-DD-L2<br>5 meters: EFFC-CAB-M12P-FM-4-DD-L5<br>10 meters: EFFC-CAB-M12P-FM-4-DD-L10 |

## INFORMATIONS GÉNÉRALES

|                                   |                                                                                                 |
|-----------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Compatibilité</b>              | Tous les produits EFFILUX en M12/M12P (M12 ou M12P uniquement selon la version du produit)      |
| <b>Tension d'alimentation</b>     | 24V DC (+/-10%)                                                                                 |
| <b>Consommation électrique</b>    | 1W                                                                                              |
| <b>Connecteurs</b>                | M12/M12P - 5/4 pins (selon la version du produit)                                               |
| <b>Poids</b>                      | 200g                                                                                            |
| <b>Dimensions</b>                 | Width x length x height = 95mm x 58mm x 51mm ( <i>Drawings page 4</i> )                         |
| <b>Fixations</b>                  | 4 holes (5,5mm diameter)                                                                        |
| <b>IP</b>                         | IP5X (dust protected)                                                                           |
| <b>Conditions de travail</b>      | Temperature: 0°C to 40°C - Humidity: 20 to 85%RH (with no condensation) - Altitude: Up to 2000m |
| <b>Conditions de stockage</b>     | Temperature: -20° to 60°C - Humidity: 20 to 85%RH (with no condensation)                        |
| <b>Informations</b>               | Overvoltage category I - Protective class III - Pollution degree 3                              |
| <b>Normes</b>                     | CE - UKCA                                                                                       |
| <b>Standards environnementaux</b> | RoHS Directives (2011/65/EU, 2015/863/EU and China RoHS) - REACH Regulation - WEEE Regulation   |
| <b>Pays d'origine</b>             | France                                                                                          |

# INSTALLATION ÉLECTRIQUE

| Version              | Standard                                                                                                                                                                                             | Power                                                                                                                                                                                                     |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part number          | EFFI-DIMMER2                                                                                                                                                                                         | EFFI-DIMMER2-PWR                                                                                                                                                                                          |
| Consommation         | 1W                                                                                                                                                                                                   | 1W                                                                                                                                                                                                        |
| Connecteur en entrée | 1x M12 mâle - 5 pins                                                                                                                                                                                 | 1x M12P mâle - 4 pins                                                                                                                                                                                     |
| Connecteur en sortie | 2x M12 femelle - 5 pins                                                                                                                                                                              | 2x M12P femelle - 4 pins                                                                                                                                                                                  |
| Schéma général       | <p><b>ENTREE - M12</b></p>  <p><b>OUTPUT 1- M12</b><br/>Multimode</p> <p><b>OUTPUT 2- M12</b><br/>Dimmable only</p> | <p><b>ENTREE - M12P</b></p>  <p><b>OUTPUT 1- M12P</b><br/>Multimode</p> <p><b>OUTPUT 2- M12P</b><br/>Dimmable only</p> |
| ENTREE               |                                                                                                                    |                                                                                                                       |
| SORTIE (OUTPUT) 1    |                                                                                                                   |                                                                                                                      |
| SORTIE (OUTPUT) 2    |                                                                                                                   |                                                                                                                      |

## Note:

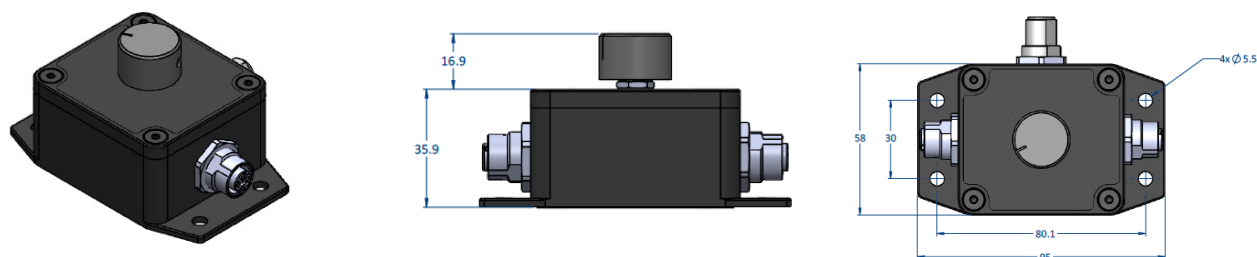
- Brancher l'entrée sur 24V pour moduler la puissance lumineuse (même en configuration in dimmable only configuration) and set the trigger input @0V to turn off the light



# INSTALLATION MÉCANIQUE

|                   |                                                                         |
|-------------------|-------------------------------------------------------------------------|
| <b>Poids</b>      | 200g                                                                    |
| <b>Dimensions</b> | Width x length x height = 95mm x 58mm x 51mm ( <i>Drawings page 4</i> ) |
| <b>Fixations</b>  | 4 holes (5,5mm diameter)                                                |
| <b>IP</b>         | IP5X (dust protected)                                                   |

L'EFFI-Dimmer2 s'attache facilement en positionnant 4 vis dans les trous indiqués sur le schéma ci-dessous.



# REGULATIONS COMPLIANCY

|                                     |                                                                                               |
|-------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Normes et réglementation</b>     | CE - UKCA                                                                                     |
| <b>Directives environnementales</b> | RoHS Directives (2011/65/EU, 2015/863/EU and China RoHS) - REACH Regulation - WEEE Regulation |
| <b>Pays d'origine</b>               | Fabriqué en France par Effilux                                                                |

# DIRECTIVES ENVIRONNEMENTALES

## EU RoHS DIRECTIVE

La directive européenne EU RoHS est l'acronyme de «Restriction Of use of certain Hazardous Substances in electrical and electronic equipment». La directive EU RoHS (2011/65/EU) restreint l'emploi de certaines substances dangereuses pour les nouveaux équipements électroniques vendus sur le marché de l'UE. La directive EU 2015/863 amende 2011/65/EU a été publiée en 2015 afin de restreindre l'utilisation de substances dangereuses spécifiques, notamment six substances conventionnelles, le plomb (<0,1 %), le mercure (<0,1 %), le cadmium (<0,01 %), le chrome hexavalent (<0,1 %), le polybromobiphényle (PBB) (0. 1%) et éther diphenylique polybromé (PBDE) (<0,1%), ainsi que quatre substances (composés de phtalate), phtalate de bis(2-Ethylhexyle) (DEHP) (<0,1%), phtalate de benzyle et de butyle (BBP) (<0,1%), phtalate de dibutyle (DBP) (<0,1%), phtalate de diisobutyle (DIBP) (<0,1%). Nos produits ne contiennent pas les substances dangereuses mentionnées ci-dessus dans une proportion supérieure à la limite maximale autorisée.

Ceci ne s'applique pas si le produit bénéficie d'une exemption.

## CHINA RoHS

La directive China RoHS est aussi connu sous le nom de «Management Methods for Restricting Hazardous Substances Used in Electric and Electronic Products», mise en place le 1er Juillet 2016 en Chine. Tout comme la directive EU RoHS (2011/65/EU), elle a pour but de restreindre l'utilisation de ces six mêmes substances. Cette directive exige une transparence quant à la présence 6 substances réglementées énumérées ci-dessous dans les produits électroniques fabriqués ou importés, et vendus en Chine.

| Usage Deadline for Environmental Protection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Product names                                | Names and contents of hazardous substances |                                |                                |                                        |     |      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------------------|--------------------------------|--------------------------------|----------------------------------------|-----|------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                              | Lead and its compounds (Pb)                | Mercury and its compounds (Hg) | Cadmium and its compounds (Cd) | Hexavalent chromium compounds (Cr(VI)) | PBB | PBDE |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | LED light, Control Unit, or Optional product | ✗                                          | ○                              | ✗                              | ○                                      | ○   | ○    |
| (This table is made in compliance with SJ/T 11364 regulations.)<br>O : Indicates that this toxic or hazardous substances contained in all the homogeneous materials for this part, according to GB/T26572 is within the limit requirement.<br>X : Indicates that this toxic or hazardous substance contained in all the homogeneous materials for this part, according to GB/T26572, is over the limit requirement.<br>*Lead and cadmium are exempted in EU RoHS<br>Usage deadline for environmental protection<br>The number used in this logo is based on « Management Methods for Restricting Hazardous Substances Used in Electric and Electronic Products » and related regulations. It shows the product usage duration in years of environmental protection. After finishing a product usage, the product needs to be re-used or discarded appropriately following local law and regulations, complying with safety and usage caution. |                                              |                                            |                                |                                |                                        |     |      |

| 环保使用期限                                                                                                                                                                                                                                                                                       | 产品            | 有害物质的名称及含量  |             |             |                 |            |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|-------------|-------------|-----------------|------------|--------------|
|                                                                                                                                                                                                                                                                                              |               | 铅及其化合物 (Pb) | 汞及其化合物 (Hg) | 镉及其化合物 (Cd) | 六价铬化合物 (Cr(VI)) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
|                                                                                                                                                                                                           | LED 照明、电源或选配件 | ✗           | ○           | ✗           | ○               | ○          | ○            |
| (本表格依据SJ/T11364的规定编制。)<br>O : 表示该有毒有害物质在该部件所有均质材料中的含量均在GB/T26572标准规定的限量要求以下。<br>X : 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出GB/T26572标准规定的限量要求。<br>(注) 铅和镉中的“x”，因欧盟RoHS没有限定，故用“○”表示。<br>环保使用期限<br>此标志的数字是根据电器电子产品有害物质限制使用管理办法以及有关标准等，表示该产品的环保使用期限的年数。遵守产品的安全和使用上的注意，在产品使用后采取适当的方法根据各地法律，规定，回收再利用或进行废弃处理。 |               |             |             |             |                 |            |              |

# GARANTIE

Les produits EFFILUX sont garantis 2 ans (1 an pour le niveau d'intensité lumineuse). La garantie démarre à la date d'expédition d'EFFILUX. Tout usage non approprié entraîne une invalidité de la garantie.

Exceptions: produits UV (<420nm): garantis 1 an / Systèmes de refroidissement: garantis 1 an / Les polariseurs ne sont pas concernés par la garantie.

Pour plus d'informations, veuillez consulter les informations relatives à la garantie disponibles sur le site web d'Effilux.

# CONTACT

Si vous souhaitez des informations complémentaires, veuillez consulter les documents techniques associés (datasheet, user manual et drawing). Les informations contenues dans ce document sont datées de Décembre 2022 et peuvent être modifiées sans notification préalable.



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