

GENERAL PRODUCT INFORMATION

Une version française de cette notice est disponible à partir de la page 10 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 is an LED light 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

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

MAINTENANCE

The product must be switch off during any maintenance operation. To remove marks on the lens or on the window: Use alcohol-free lens cleaning fluid on a cleaning tissue. Few drops will suffice. Please clean gently. Always apply the fluid to a tissue rather than the lens itself. To clean optical components: Please wear gloves and use compressed air if there is dust.

USAGE AND STORAGE ENVIRONMENT

Operating environment	Temperature: 0 to 50°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 to locations with following conditions (Incorrect installation location may causes product failure) :

Well-ventilated places with minimal dust.	Places free from any liquid, chemical product or steam.
Places free from corrosive or combustible gas.	Places that are not subject to sudden temperature changes.
Places 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.

PART NUMBERING

STANDARD VERSION

EFFI-SHARP - VVV - XX - ZZZ - M				
	Ø: Standard (STD) PWR: Power version FL: Focus Light PWR FL: Power Focus Light version	Type of lens NF: Near Field MF: Middle Field FF: Far Field CM: For any other C-mount configuration lens	Wavelength [nm] ● 365 (UV) ● 405 (UV) ● 465 (Blue) ● 525 (Green) ● 625 (Red) ● 850 (Infrared) ● 940 (Infrared) ○ 000 (White)	Mask/ Pattern 1: Square 9x9 mm 2: Disc Ø 15.1 mm 3: Half-moon R = 9.5 mm

VARIANTS

Please refer to the datasheet for the specifications of the variants.

OPTICAL OPTIONS	
STR	EFFI-SHARP-VVV-XX-ZZZ-M-STR
Polarizer accessory	EFFI-SHARP-VVV-XX-ZZZ-M-POL
Pure UV	EFFI-SHARP-VVV-XX-365-M-PUV

ACCESSORIES

EXTENSION CABLES	2 meters: EFFC-CAB-M12-FM-5-DD-L2/ EFFC-CAB-M8-F-3-D-L2 5 meters: EFFC-CAB-M12-FM-5-DD-L5/ EFFC-CAB-M8-F-3-D-L5 10 meters: EFFC-CAB-M12-FM-5-DD-L10/ EFFC-CAB-M8-F-3-D-L10
PULSE CONTROLLER AND CABLES	Pulse controller: EFFI-IPSC4 2 meters: EFFC-CAB-M8-SUBD-FM-3-DD-L2 5 meters: EFFC-CAB-M8-SUBD-FM-3-DD-L5 10 meters: EFFC-CAB-M8-SUBD-FM-3-DD-L10
FASTENERS	EFFM-1-0001 EFFM-1-0009 EFFM-1-0027
FILTERS	EFFO-FLR-...

ELECTRICAL INSTALLATION

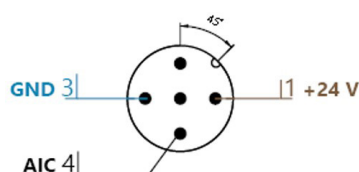
SPECIFICATIONS

Power Supply	24V DC	
Connector(s)	M12 - 5 pins (LED driver)	M8 - 3 pins (no LED driver-direct current)
Power Consumption	Standard Version : 5W	
	Power Version : 15W	
Analog Intensity Control (AIC)	The output optical power is adjustable from 20% to 100% by applying a signal from [5V-24VDC] Total voltage range [0V-24VDC] / Don't exceed 24V DC / Max. signal consumption: 4mA	
Response time	Max. 10 μ s (Rise time included)	

HOW TO CONNECT THE EFFI-SHARP?

Depending on the chosen configuration (with or without LED driver), the light comes with different connectors.

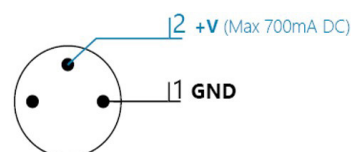
With LED driver



Notes: The EFFI-LASE requires 24V DC input power.

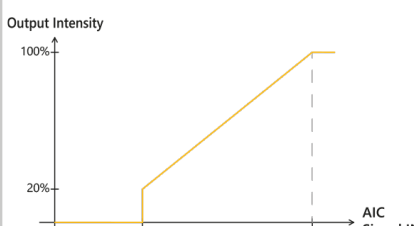
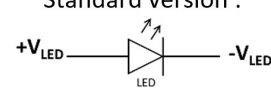
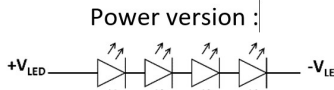
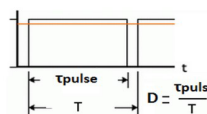
Without LED driver = STR

Expert mode: LED are wired directly to the M8 without protection



Max input intensity 700mA

HOW TO CONTROL THE EFFI-SHARP?

Chosen option	With LED driver (Dimmable continuous)	Without LED driver = STR (Dimmable continuous)																		
Dimmable continuous		Standard version :  Power version : 																		
Strobe	Not available	 <table border="1"> <thead> <tr> <th>Current</th><th>Max pulse duration (μs)</th><th>Duty cycle</th></tr> </thead> <tbody> <tr> <td>1.2A</td><td>50 000</td><td>0.5</td></tr> <tr> <td>1.5A</td><td>10 000</td><td>0.1</td></tr> <tr> <td>2A</td><td>1000</td><td>0.01</td></tr> <tr> <td>2.5A</td><td>100</td><td>0.001</td></tr> <tr> <td>3.5A</td><td>40</td><td>0.0004</td></tr> </tbody> </table>	Current	Max pulse duration (μ s)	Duty cycle	1.2A	50 000	0.5	1.5A	10 000	0.1	2A	1000	0.01	2.5A	100	0.001	3.5A	40	0.0004
Current	Max pulse duration (μ s)	Duty cycle																		
1.2A	50 000	0.5																		
1.5A	10 000	0.1																		
2A	1000	0.01																		
2.5A	100	0.001																		
3.5A	40	0.0004																		

MECHANICAL INSTALLATION

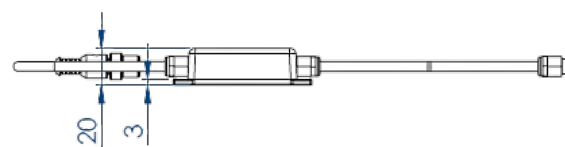
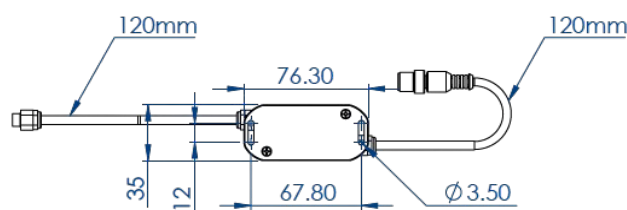
SPECIFICATIONS

Weight	Depends on the version
Dimensions	Depends on the version
Material	Device body: Aluminum alloy
Fastener	Standard version: 4X M4 holes on the side of the device Power version: 2 M4 holes and 1 M6 hole on the backside of the device
IP rating	IP54

DIMENSIONS & MOUNTING

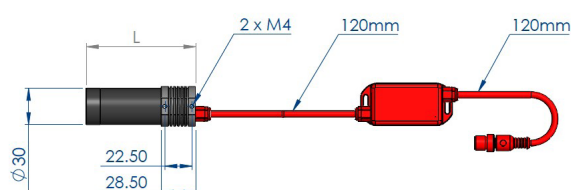
For the four existing versions of the EFFI-SHARP (VVV = Ø / PWR / FL / PWR-FL), two configurations exist either M12 (with LED driver) or M8 (without LED driver). In this section you will find the corresponding drawings for each version.

In every sketch, the red part corresponds to the M12 configuration and should be replaced by a M8 connector for the corresponding configuration. Here are the dimensions of the red part.



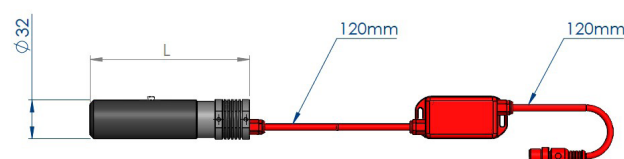
EFFI-SHARP : Standard version (EFFI-SHARP-XX-ZZZ-M)

XX = CM



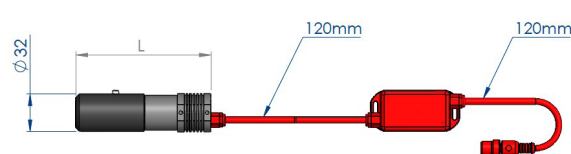
L = 90.7mm

XX = FF



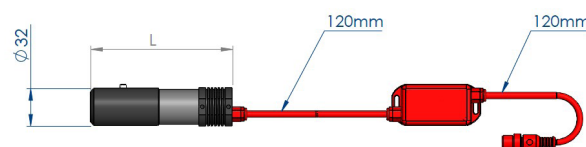
L Min (mm) : 134
L Max (mm) : 168

XX = MF



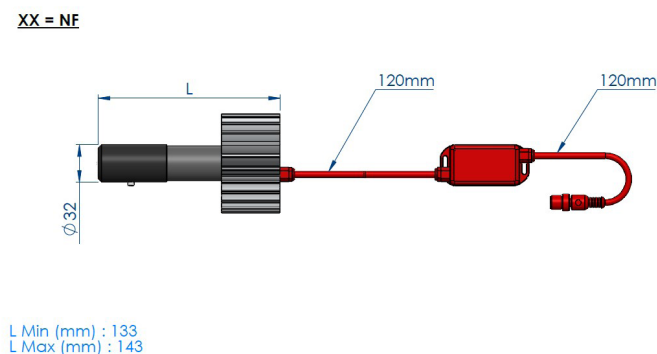
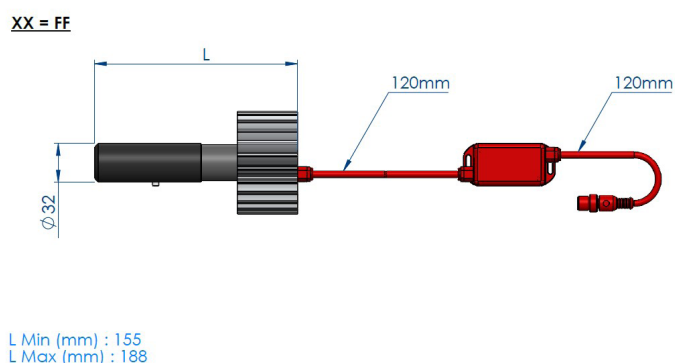
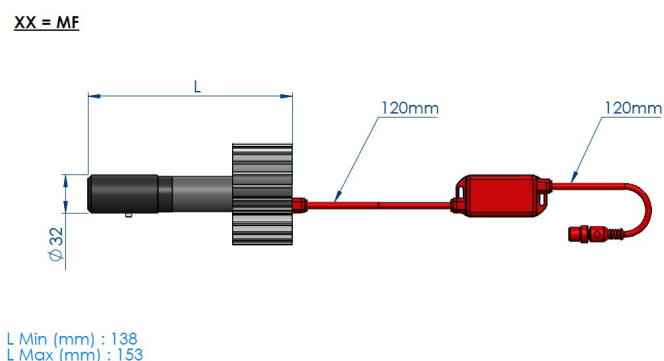
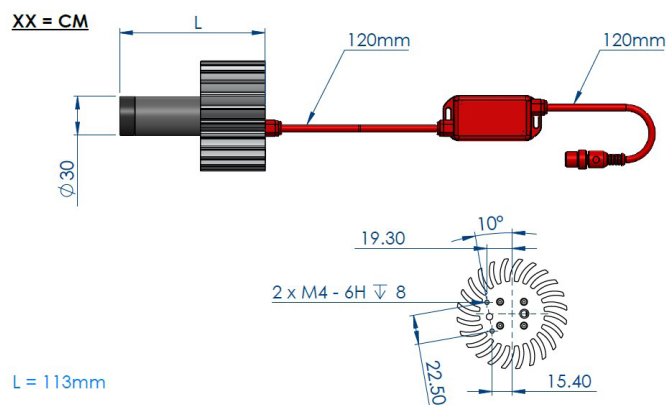
L Min (mm) : 116
L Max (mm) : 132

XX = NF



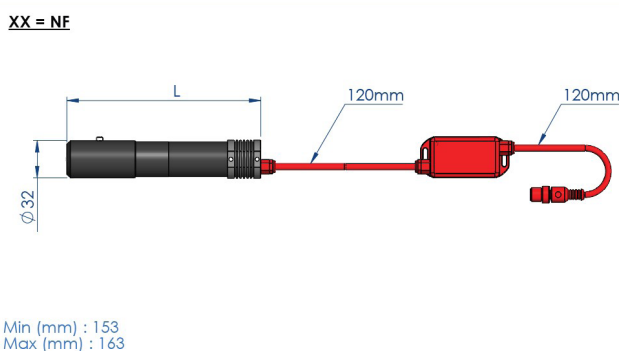
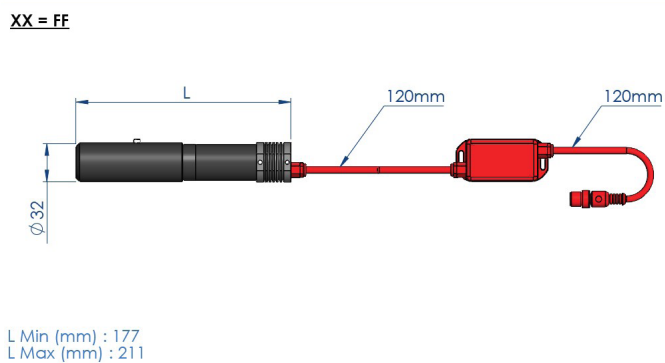
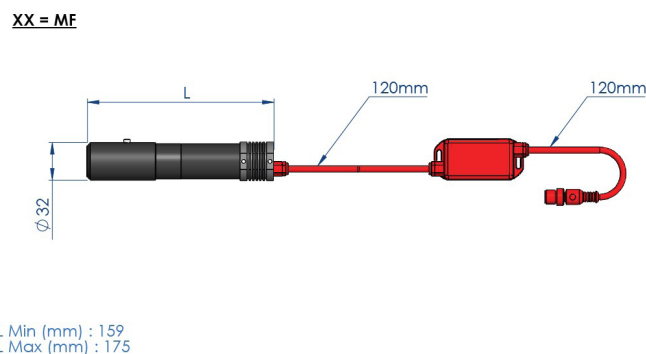
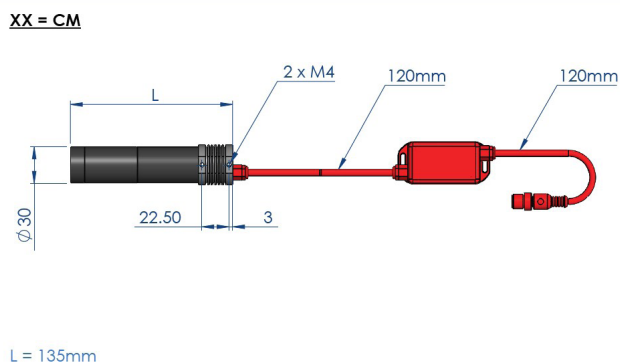
L Min (mm) : 110
L Max (mm) : 120

EFFI-SHARP : Power version (EFFI-SHARP-PWR-XX-ZZZ-M)



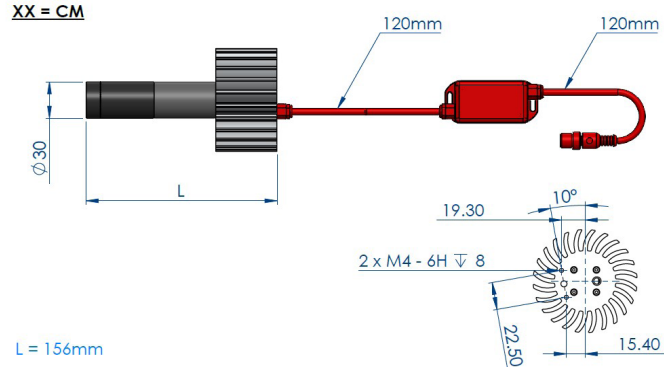
Notes: At the back of the chilling zone, there are two M4 holes for mountings

EFFI-SHARP : Focus light version (EFFI-SHARP-FL-XX-ZZZ-M)

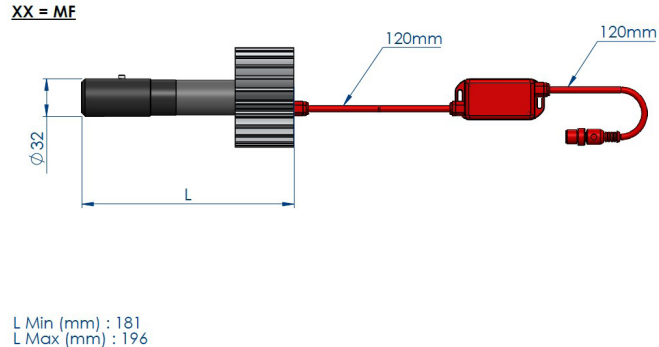


EFFI-SHARP : Power focus light version (EFFI-SHARP-PWR-FL-XX-ZZZ-M)

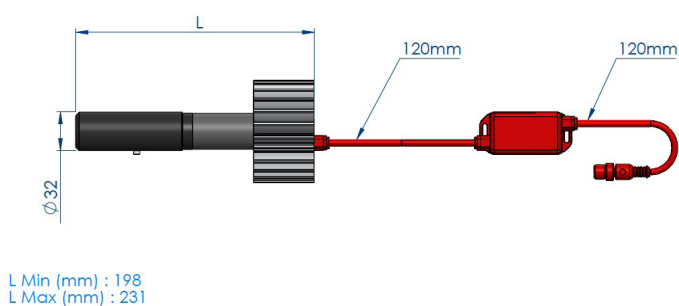
XX = CM



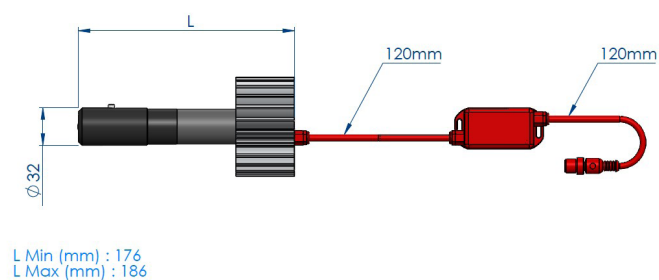
XX = MF



XX = FF



XX = NF



Notes: At the back of the chilling zone, there are two M4 holes for mountings

REGULATIONS COMPLIANCY

Regulations & Marking	CE - UKCA
Environmental Standards	RoHS Directives (2011/65/EU, 2015/863/EU and China RoHS) - REACH Regulation - WEEE Regulation
Country of Origin	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 1st, 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.

Names and Contents of Hazardous Substances							
Usage Deadline for Environmental Protection	Product name	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/T11364 regulations.) ○ : 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. × : 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. *Lead and cadmium are exempted in EU RoHS.							
Usage deadline for environmental protection 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 for 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.							

产品中有害物质的名称及含量							
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 任选附件	×	○	×	○	○	○
(本表格依据 SJ/T11364 的规定编制。) ○ : 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。 × : 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。 (注) 铅和镉中的“×”，因欧洲联盟 RoHS 没有限定，故用“○”表示。							
环保使用期限 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 January 2025 and may be changed without prior notice.



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INFORMATIONS GÉNÉRALES

Efflux 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 Efflux: www.efflux.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 Efflux.

PRÉCAUTIONS D'EMPLOI

MAINTENANCE

Le produit doit être éteint durant toute opération de maintenance. Pour enlever des marques sur les lentilles ou la vitre, utilisez un nettoyant liquide sans alcool dédié sur un tissu propre. Quelques gouttes suffisent. Nettoyez délicatement, appliquez toujours le nettoyant sur le tissu plutôt que sur les lentilles directement. Pour le nettoyage des composants optiques, portez des gants et utilisez de l'air comprimé pour évacuer la poussière.

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 cuisinière.	

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'emballages doivent être retirés avant utilisation.

PART NUMBERING

VERSION STANDARD

EFFI-SHARP - VVV - XX - ZZZ - M				
	Ø: Standard (STD) PWR: Version power FL: Focus Light PWR FL: Power Focus Light version	Type of lens NF: Champ proche MF: Champ moyen FF: Champ éloigné CM: For any other C-mount configuration lens	Wavelength [nm] ● 365 (UV) ● 405 (UV) ● 465 (Bleu) ● 525 (Vert) ● 625 (Rouge) ● 850 (Infrarouge) ● 940 (Infrarouge) ○ 000 (Blanc)	Mask/ Pattern 1: Carré 9x9 mm 2: Disque Ø 15.1 mm 3: Demi-lune R = 9.5 mm

VARIANTES

Pour les spécifications des variantes se référer à la datasheet.

OPTIONS OPTIQUES	
STR	EFFI-SHARP-VVV-XX-ZZZ-M- STR
Polariseur	EFFI-SHARP-VVV-XX-ZZZ-M- POL
Pure UV	EFFI-SHARP-VVV-XX-365-M- PUV

ACCESSOIRES DISPONIBLES

CABLES D'EXTENTION	2 meters: EFFC-CAB-M12-FM-5-DD-L2/ EFFC-CAB-M8-F-3-D-L2 5 meters: EFFC-CAB-M12-FM-5-DD-L5/ EFFC-CAB-M8-F-3-D-L5 10 meters: EFFC-CAB-M12-FM-5-DD-L10/ EFFC-CAB-M8-F-3-D-L10
CONTRÔLEUR DE PULSE ET CABLES	Pulse controller: EFFI-IPSC4 2 meters: EFFC-CAB-M8-SUBD-FM-3-DD-L2 5 meters: EFFC-CAB-M8-SUBD-FM-3-DD-L5 10 meters: EFFC-CAB-M8-SUBD-FM-3-DD-L10
FIXATIONS	EFFM-1-0001 EFFM-1-0009 EFFM-1-0027
FILTRES	EFFO-FLR-...

INSTALLATION ELECTRIQUE

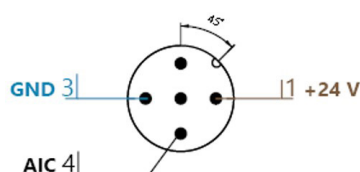
SPECIFICATIONS

Tension d'alimentation	24V DC	
Connecteur(s)	M12 - 5 pins (LED driver)	M8 - 3 pins (no LED driver-direct current)
Consommation d'énergie	Standard Version : 5W	
	Power Version : 15W	
Contrôle d'intensité analogique (AIC)	La puissance optique de sortie est réglable de 20 % à 100 % en appliquant un signal de [5V-24V DC]. Plage de tension totale : [0V-24V DC] / Ne pas dépasser 24V DC / Consommation maximale du signal : 4mA.	
Temps de réponse	Max. 10µs (<i>Rise time included</i>)	

COMMENT CONNECTER L'EFFI-SHARP?

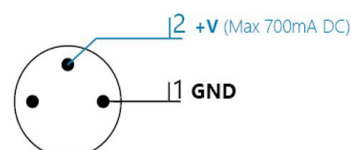
En fonction de la configuration choisie (avec ou sans LED driver), la lumière est fournie avec différents connecteurs.

Avec LED driver



Sans LED driver = STR

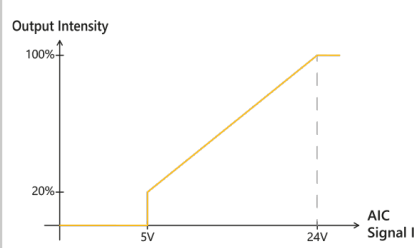
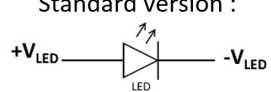
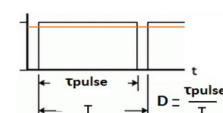
Mode expert : Les LED sont connectées directement au M8 sans protection.



Intensité d'entrée maximale : 700 mA.

Notes: L'EFFI-LASE nécessite une alimentation d'entrée de 24V DC.

COMMENT CONTRÔLER L'EFFI-SHARP?

Option choisie	Avec LED driver (Continu contrôlable en puissance)	Sans LED driver = STR (Continu contrôlable en puissance)																		
Dimmable continuous		Standard version :  Power version : 																		
Strobe	Non disponible	 <table border="1"> <thead> <tr> <th>Current</th><th>Max pulse duration (µs)</th><th>Duty cycle</th></tr> </thead> <tbody> <tr> <td>1.2A</td><td>50 000</td><td>0.5</td></tr> <tr> <td>1.5A</td><td>10 000</td><td>0.1</td></tr> <tr> <td>2A</td><td>1000</td><td>0.01</td></tr> <tr> <td>2.5A</td><td>100</td><td>0.001</td></tr> <tr> <td>3.5A</td><td>40</td><td>0.0004</td></tr> </tbody> </table>	Current	Max pulse duration (µs)	Duty cycle	1.2A	50 000	0.5	1.5A	10 000	0.1	2A	1000	0.01	2.5A	100	0.001	3.5A	40	0.0004
Current	Max pulse duration (µs)	Duty cycle																		
1.2A	50 000	0.5																		
1.5A	10 000	0.1																		
2A	1000	0.01																		
2.5A	100	0.001																		
3.5A	40	0.0004																		

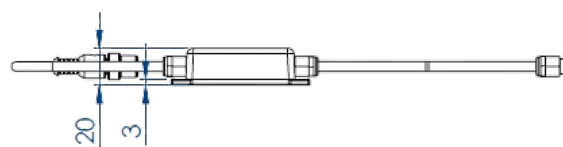
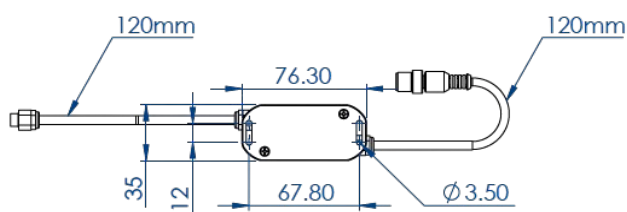
INSTALLATION MÉCANIQUE

SPECIFICATIONS

Poids	Version standard: 180g Version power: 580g
Dimensions	Version standard: 32mm x 105mm (sans l'objectif) Version power: 85mm x 125mm (sans l'objectif)
Matériaux	Corps de l'appareil : alliage d'aluminium
Fixation	Version standard: 4X M4 holes sur le côté de l'appareil Version power: 2 M4 holes et 1 M6 hole à l'arrière de l'appareil
Indice de protection IP	IP54

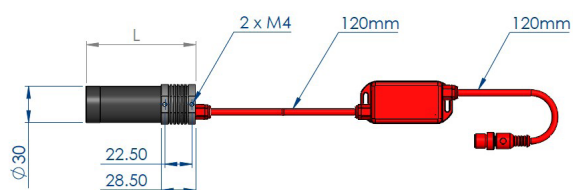
DIMENSIONS & FIXATIONS

Pour les quatre versions existantes de l'EFFI-SHARP (VVV = Ø / PWR / FL / PWR-FL), deux configurations sont disponibles : soit M12 (avec driver LED), soit M8 (sans driver LED). Dans cette section, vous trouverez les dessins correspondants pour chaque version. Dans chaque schéma, la partie en rouge correspond à la configuration M12 et doit être remplacée par un connecteur M8 pour la configuration correspondante. Voici les dimensions de la partie rouge.



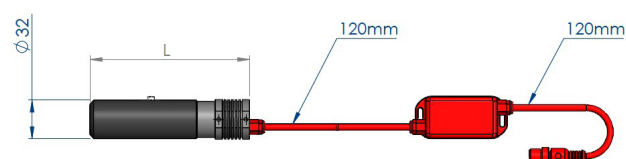
EFFI-SHARP : Version Standard (EFFI-SHARP-XX-ZZZ-M)

XX = CM



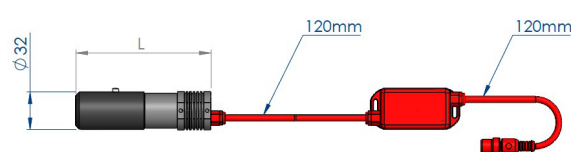
L = 90.7mm

XX = FF



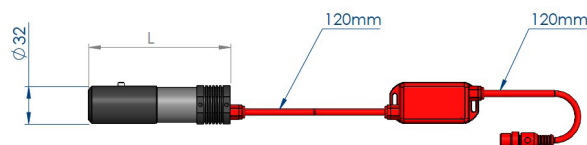
L Min (mm) : 134
L Max (mm) : 168

XX = MF



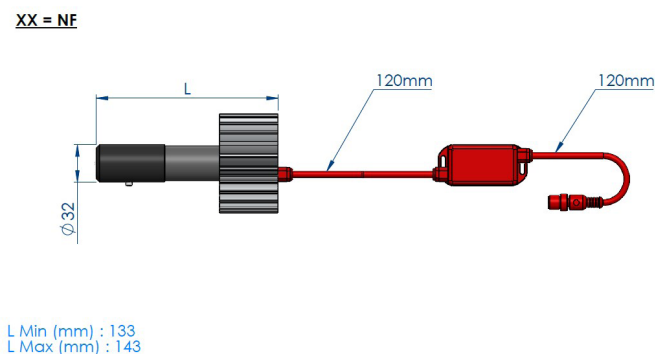
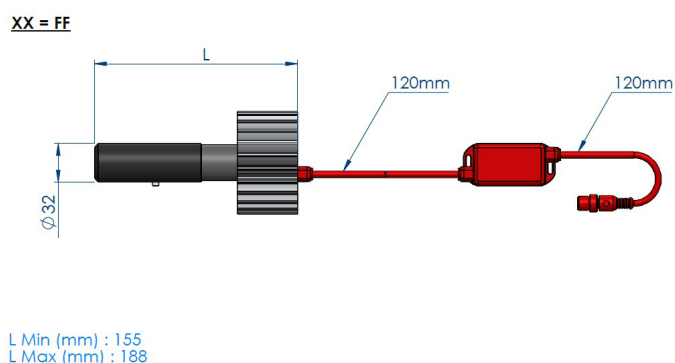
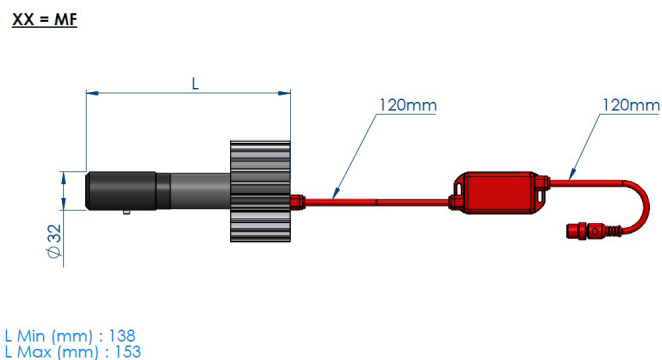
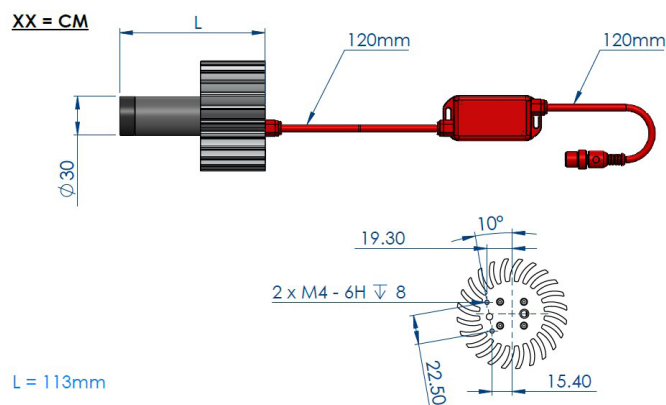
L Min (mm) : 116
L Max (mm) : 132

XX = NF



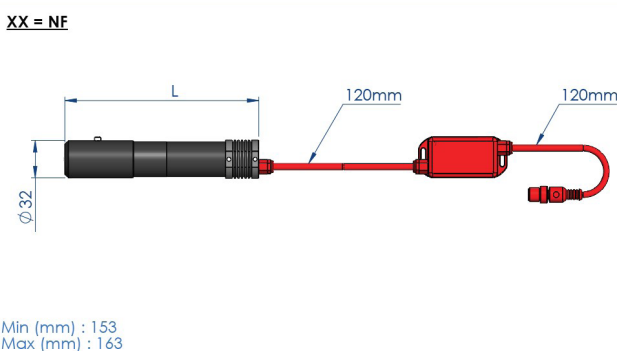
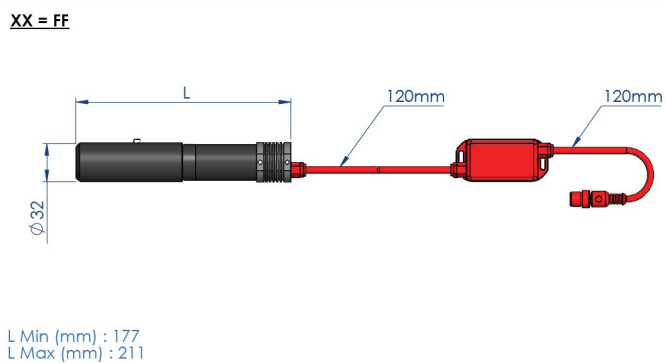
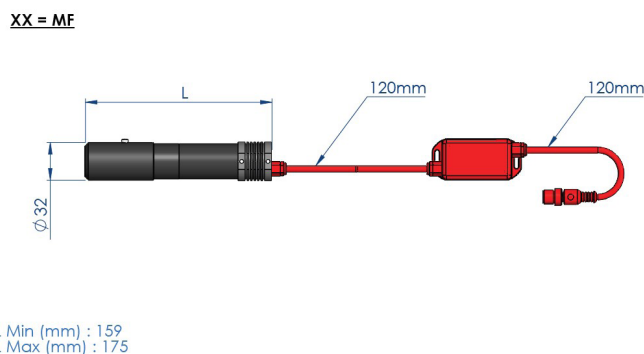
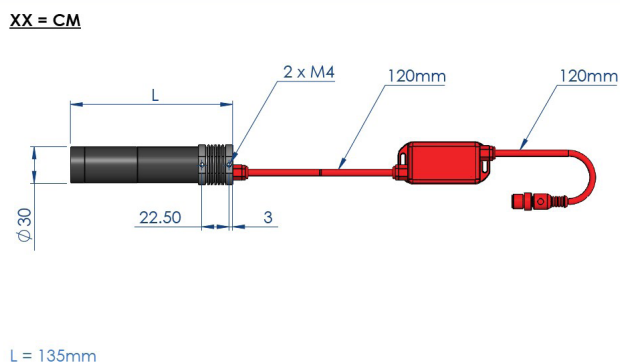
L Min (mm) : 110
L Max (mm) : 120

EFFI-SHARP : Version power (EFFI-SHARP-PWR-XX-ZZZ-M)



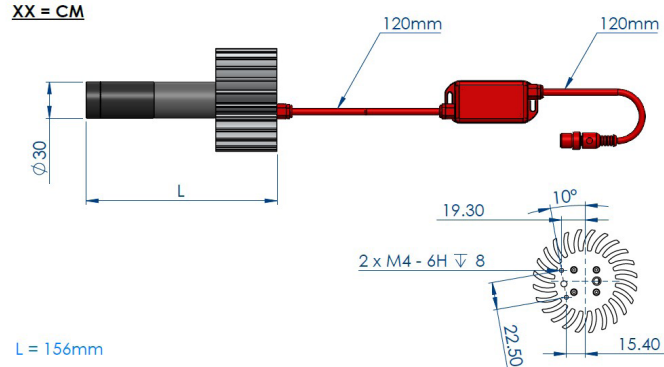
Notes : À l'arrière de la zone de refroidissement, il y a deux trous M4 pour les fixations.

EFFI-SHARP : Version focus light (EFFI-SHARP-FL-XX-ZZZ-M)

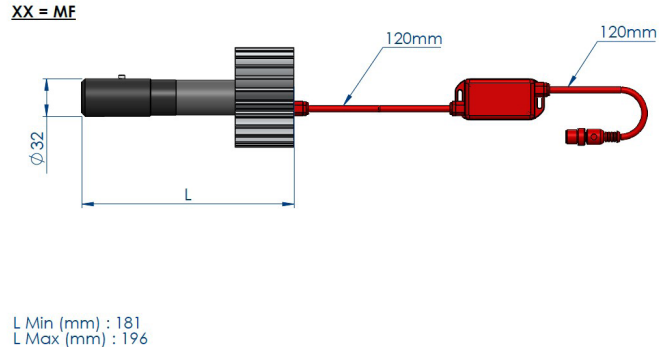


EFFI-SHARP : Power focus light version (EFFI-SHARP-PWR-FL-XX-ZZZ-M)

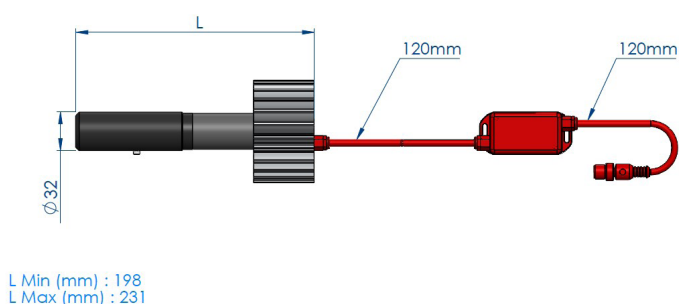
XX = CM



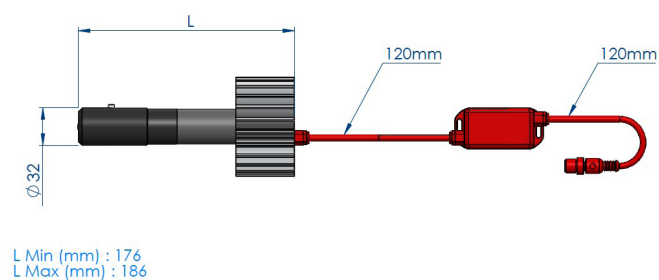
XX = MF



XX = FF



XX = NF



Notes : À l'arrière de la zone de refroidissement, il y a deux trous M4 pour les fixations.

NORMES ET RÉGLEMENTATION

Réglementation et marquage	CE - UKCA
Directives environnementales	RoHS Directives (2011/65/EU, 2015/863/EU and China RoHS) - REACH Regulation - WEEE Regulation
Pays d'origine	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.

Names and Contents of Hazardous Substances							
Usage Deadline for Environmental Protection	Product name	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/T11364 regulations.) ○: 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. ×: 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. *Lead and cadmium are exempted in EU RoHS.							
Usage deadline for environmental protection 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 for 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.							

产品中有害物质的名称及含量							
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 任选附件	×	○	×	○	○	○
(本表格依据 SJ/T11364 的规定编制。) ○: 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。 ×: 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。 (注) 铅和镉中的“×”，因欧洲联盟 RoHS 没有限定，故用“○”表示。							
环保使用期限 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 Janvier 2025 et peuvent être modifiées sans notification préalable.



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