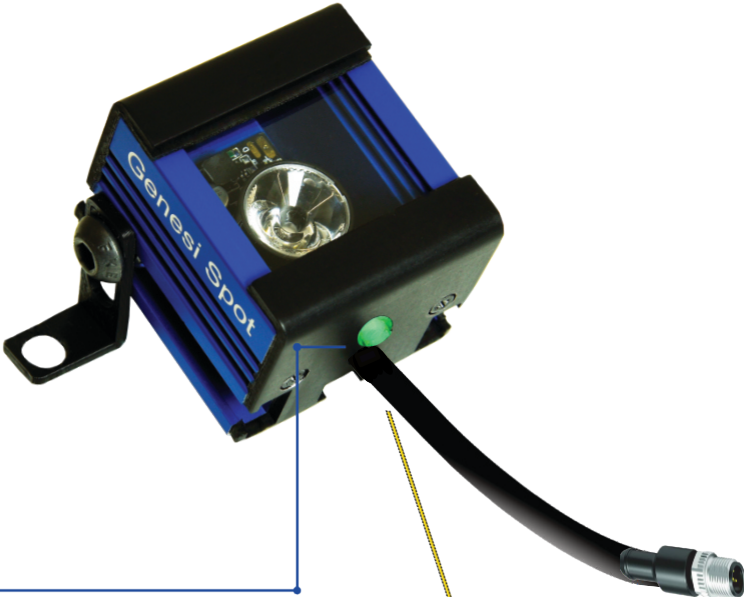




LED STATUS

Led Status	Internal controller with 4 driving modes
1	100% Continuous use
2	200% Semi-continuous use
3	400% Strobe use
4	10-100% Analog Reg

Internal Controller with 4 driving modes



M12 5P Male Connector	
Pin 1	+24V
Pin 2	Start NPN < 1 to 0V
Pin 3	GND
Pin 4	Start PNP > 3 to 24V
Pin 5	1-10V Analog Reg.

develop your custom solution

18 Standard Colours

Base IP65 Protection Degree

Variant IP67 Protection Degree

24 Vdc

Optional Polarizing Filter

CE RoHS

UK CA

FC

Illuminator Features :

- Project achieved by internal resources and Genesi skills;
- Fast controller which allows to have the following modes: continuous use,semi-continuous use,strobe (PNP, NPN), analog regulation.
- Microcontroller to monitor the pulse duration and the maximum temperature;
- Model with 10°,30°,60°Lenses or transparent, satin and opaline covers;
- Powerful and Fast strobe mode with energy buffering and strobe duration control, min. pulse from 3 μs;

COLOUR	WHITE		UV-A				VISIBLE				NIR			SWIR				
Led Colour	White 6000K -6K	White 4000K -4K	UV 365nm -365	UV 385nm -385	UV 395nm -395	UV 405nm -405	Blue 450nm -450	Green 524nm -524	Red 625nm -625	Deep Red 660nm -660	IR 730nm -730	IR 850nm -850	IR 950nm -950	SWIR 1050nm -1050	SWIR 1200nm -1200	SWIR 1300nm -1300	SWIR 1450nm -1450	SWIR 1550nm -1550
Continuous use power	100 %		175 %				200 %				200 %			200 %				
Semi-continuous use power	200 %		175 %				200 %				200 %			180 %				
Strobe use power	400 %		330 %				400 %				400 %			400 %				

GS Part Number

Ex. Code : **GSXXX** -**YYY** -**WW1** -**WW2**

XXX	Base Lengths
GSX1	5 cm
GSQ1	5 cm
GSQ2	9 cm
GSQ3	12 cm
GSXXX	from 5 cm to 50 cm on demand

-YYY	Led Colours		EN 62471
-6K	Base 6000K Cold White	White	-L10
-4K	4000K Natural White		RISK2
-365	UV 365 nm	UV - A	RISK3
-385	UV 385 nm		
-395	UV 395 nm		
-405	UV 405 nm		
-450	450 nm Royal Blue	Visible	RISK2
-524	524 nm Green		RISK1
-625	625 nm Red		
-660	660 nm Deep Red		
-730	730 nm IR	Nir	RISK2
-850	850 nm IR		
-950	950 nm IR		
-1050	1050 nm SWIR	Swir	RISK2
-1200	1200 nm SWIR		
-1300	1300 nm SWIR		
-1450	1450 nm SWIR		
-1550	1550 nm SWIR		
-YYY	Colour on demand		

-WW1	Cover variants
-T	Base Trasparent cover
-OP	Base Opaline cover
-ST	Satin cover
-T65	Transparent cover IP65
-L10	10° lens + trasparente cover
-L30	30° lens + trasparente cover
-L60	60° lens + trasparente cover
-45T	45° Lens + Transparent Cover
-P	Polarizing filter cover
-WW1	Cover on demand
-WW2	Cables
	20cm cable + M12 5P M
-WW2	Cable on demand

Not all combinations are available

Part Number Examples:

GSX1-6K-L10

Spot light 4 Driving Modes 50x50mm White 6000K 10° Lens + transparent cover 600/2250Lm 0,2/0,65A 4/15W 20 cm cable M12 M 5P

GSX1-1450-L10

Spot light 4 Driving Modes 50x50mm SWIR 1450nm 10° Lens + transparent cover 0,1/0,3A 2/6W 20 cm cable M12 M 5P

GSQ1-524-L30

Spot light 4 core 4 Driving Modes 50x50mm Green 524nm 30° Lens + transparent cover 0,4/2A 8/50W 20 cm cable M12 M 5P

Design & Production
Made in Italy



Genesi LUX®

GENESI ELETTRONICA SRL - VIA BACHELET, 3/A - 41057 SPILAMBERTO (MO) - ITALY

info@genesi-lux.it - TEL. +39 059785566 - www.genesi-elettronica.com

©All Rights Reserved GENESI ELETTRONICA - GS - GENESI SPOT



Organization with a
certified ISO 9001:2015
Quality Management System

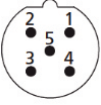
Rev. 02/25

OPERATING MODE

100% CONTINUOUS USE

Connector	PINS	Function	Description
	1	+24 V	A) START NPN → PIN2: 0 to 1 V; B) START PNP → PIN4: 3 to 24 V; For the continuous use: it is possible to connect PIN4 directly to +24 V or PIN2 to GND
	2	A) Start NPN: 0-1 V	
	3	GND	
	4	B) Start PNP: 3-24 V	
	5	-	

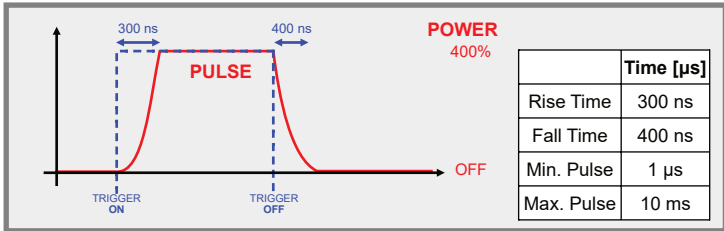
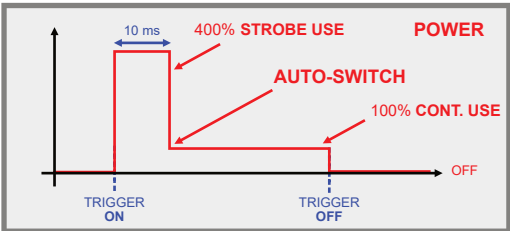
200% SEMI-CONTINUOUS USE

Connector	PINS	Function	Description
	1	+24 V	Precondition: PIN5: 24 V A) START NPN → PIN2: 0 to 1 V; B) START PNP → PIN4: 3 to 24 V; In this mode → $T_{onmax} = 60\text{ s}$ - $Dt_{max} = 50\%$ For the semi-continuous use: it is possible to connect PIN4 directly to +24 V or PIN2 to GND. To use it in continuous mode with Dt_{max} from 51% to 100%: it is necessary to use the heat sink or forced ventilation.
	2	A) Start NPN: 0-1 V	
	3	GND	
	4	B) Start PNP: 3-24 V	
	5	+24 V	

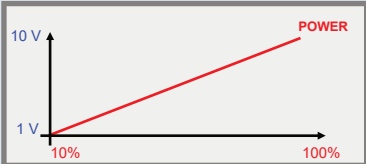
400% STROBE USE



Connector	PINS	Function	Description
	1	+24 V	A) START NPN → PIN2: 0 to 1 V; B) START PNP → PIN4: 3 to 24 V; In this mode → $T_{onmax} = 10\text{ ms}$ - $Dt_{max} = 10\%$ AUTO-SWITCH in continuous use.
	2	A) Start NPN: 0-1 V	
	3	GND	
	4	B) Start PNP: 3-24 V	
	5	-	



ANALOG REGULATION USE 100%

Connector	PINS	Function	Description
	1	+24 V	PIN5 from 1 to 10 V can adjust the power from 10% to 100%. 
	2	-	
	3	GND	
	4	-	
	5	1 V - 10 V	



400% STROBE USE POWER can be reached only from WHITE / VISIBLE / NIR LEDS, for other wavelengths check the power table at page 1.



MicroController temperature protection → at 80° the PCB enables the protection and restores the functioning at $T < 60^\circ$.

Design & Production
Made in Italy



Genesi LUX®
GENESI ELETTRONICA SRL - VIA BACHELET, 3/A - 41057 SPILAMBERTO (MO) - ITALY
info@genesi-lux.it - TEL. +39 059785566 - www.genesi-elettronica.com
©All Rights Reserved GENESI ELETTRONICA - GS - GENESI SPOT

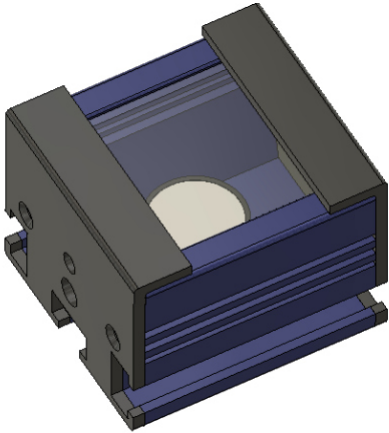
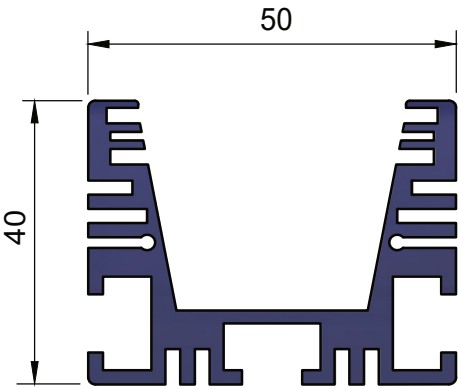


Organization with a
certified ISO 9001:2015
Quality Management System

Rev. 02/25

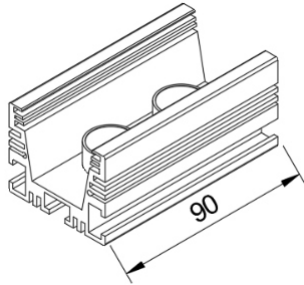
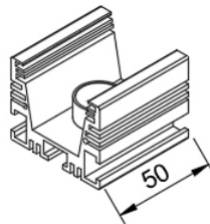
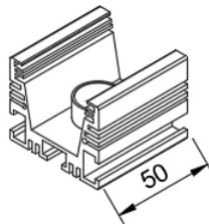
MECHANICAL DRAWING

Scale	Unit of measurement
1:1	mm
Weight	
180 g	

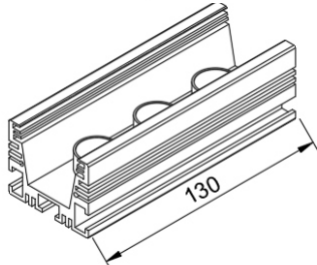


GSX1

GSQ1



GSQ2



GSQ3

For 3D mechanical drawing requests - info@genesi-lux.it

LIGHT PROJECTION

GSX1-6K-L10°		
Working distance	Diameter mm	Power W/m² Cont./S.cont/Strobe
20 cm	50	245-428-856
40 cm	70	93-161-322
100 cm	240	14-23.4-46.8

GSX1-6K-L30°		
Working distance	Diameter mm	Power W/m² Cont./S.cont/Strobe
20 cm	80	126-222-444
40 cm	150	30-52-104
100 cm	400	5-9-18

GSX1-6K-L60°		
Working distance	Diameter mm	Power W/m² Cont./S.cont/Strobe
20 cm	200	24-43-86
40 cm	380	7-12-24
100 cm	980	1.3-2.2-4.4

GSX1-6K-T		
Working distance	Diameter mm	Power W/m² Cont./S.cont/Strobe
20 cm	310	5.8-10.5-21
40 cm	320	2.3-4.1-8.2
100 cm	1380	0.39-0.66-1.32

GSX1-6K-ST		
Working distance	Diameter mm	Power W/m² Cont./S.cont/Strobe
20 cm	240	4.7-8.84-17.7
40 cm	420	1.8-3.1-6.2
100 cm	1080	0.32-0.53-1

GSX1-6K-OP		
Working distance	Diameter mm	Power W/m² Cont./S.cont/Strobe
20 cm	280	1.7-3-6
40 cm	520	0.65-1.1-2.2
100 cm	1500	0.14-0.21-0.48



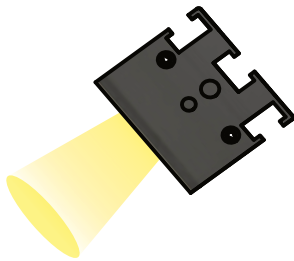
GSQ1-6K-L30°		
Working distance	Diameter mm	Power W/m² Cont./S.cont/Strobe
20 cm	100	114-180-360
40 cm	200	41.5-64.5-129
100 cm	440	6.2-9.3-18.6

GSQ1-6K-L60°		
Working distance	Diameter mm	Power W/m² Cont./S.cont/Strobe
20 cm	220	45-73-146
40 cm	400	13.5-21.5-43
100 cm	850	2.5-4-8

GSQ1-6K-T		
Working distance	Diameter mm	Power W/m² Cont./S.cont/Strobe
20 cm	300	11-18-36
40 cm	520	3.6-5.6-11.2
100 cm	1140	0.69-1-2

GSQ1-6K-ST		
Working distance	Diameter mm	Power W/m² Cont./S.cont/Strobe
20 cm	240	9-14.2-28.4
40 cm	380	3.5-5.4-10.8
100 cm	1100	0.57-0.86-1.72

GSQ1-6K-OP		
Working distance	Diameter mm	Power W/m² Cont./S.cont/Strobe
20 cm	280	3.3-5.2-10.4
40 cm	480	1.2-1.8-3.6
100 cm	1640	0.22-0.31-0.62



Design & Production
Made in Italy



Genesi LUX®

GENESI ELETTRONICA SRL - VIA BACHELET, 3/A - 41057 SPILAMBERTO (MO) - ITALY

info@genesi-lux.it - TEL. +39 059785566 - www.genesi-elettronica.com

©All Rights Reserved GENESI ELETTRONICA - GS - GENESI SPOT

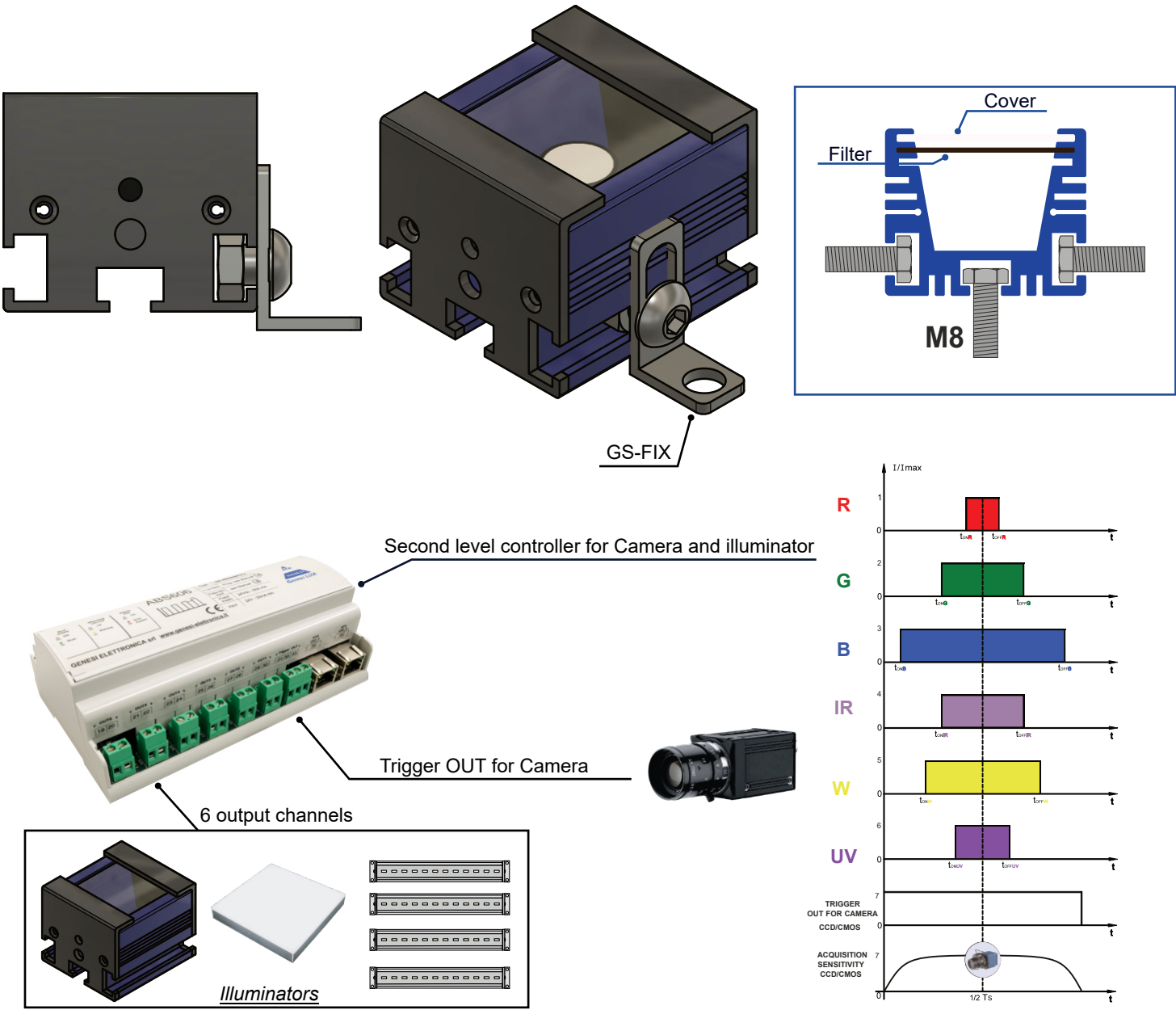


Organization with a
certified ISO 9001:2015
Quality Management System

Rev. 02/25

ACCESSORIES

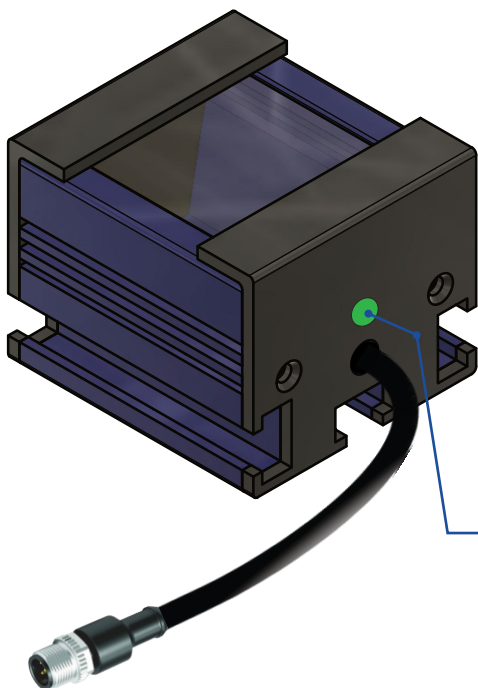
CODE	DESCRIPTION
GS-FIX-R	Rotating GS fixing
GS-R1	Auxiliary heat radiator for GSX1 & GSQ1 (to work 100% semi-continuous mode)
GS-R2	Auxiliary heat radiator for GSQ2 (to work 100% semi-continuous mode)
GS-R3	Auxiliary heat radiator for GSQ3 (to work 100% semi-continuous mode)
GE-M12F-5X050-2M	M12 connector 2 meter long female cable
GE-M12F-5X050-5M	M12 connector 5 meter long female cable
GE-M12F-5X050-10M	M12 connector 10 meter long female cable
GE-ABS606E	LED Voltage Controller with 6 programmable channels and 10/100 Ethernet. Second level controller for Camera and illuminator.



Tailor-Made

Connector	PINS	Function	Description
M12 Male	1		
	2		
	3		
	4		
	5		

DEVELOP YOUR CUSTOM PRODUCT WITH OUR R&D TEAM

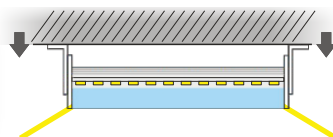


LED STATUS

Mode	Led colour signal	Function/note
Powered	Blue	-
100% Continuous use	Green	-
0-100% Analog Reg	Yellow	-
400% Strobe Use	Fast blinking green	-
200% Semi-continuous use standby	Purple	Without PNP or NPN input only +24V analog IN
200% Semi-continuous use	Slow blinking purple	With PNP o NPN input +24V analog IN
Over 10% ton error	Fast blinking red	10 sec stop
Over 80° temperature in pcb controller	Slow blinking green-yellow-red	Up to < 60° stop

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

Base
IP65
Protection Degree



STANDARDS

EMC immunity :	EN 61547:2009	
EMC emission :	EN 55015:2013 + A1	
Photobiologic risk :	EN 62471:2008 GLS: RISK 1	Only for white light, continuous use
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 - TEL. +39 059785566 - www.genesi-elettronica.com

©All Rights Reserved GENESI ELETTRONICA - GS - GENESI SPOT



Organization with a
certified ISO 9001:2015
Quality Management System

Rev. 02/25