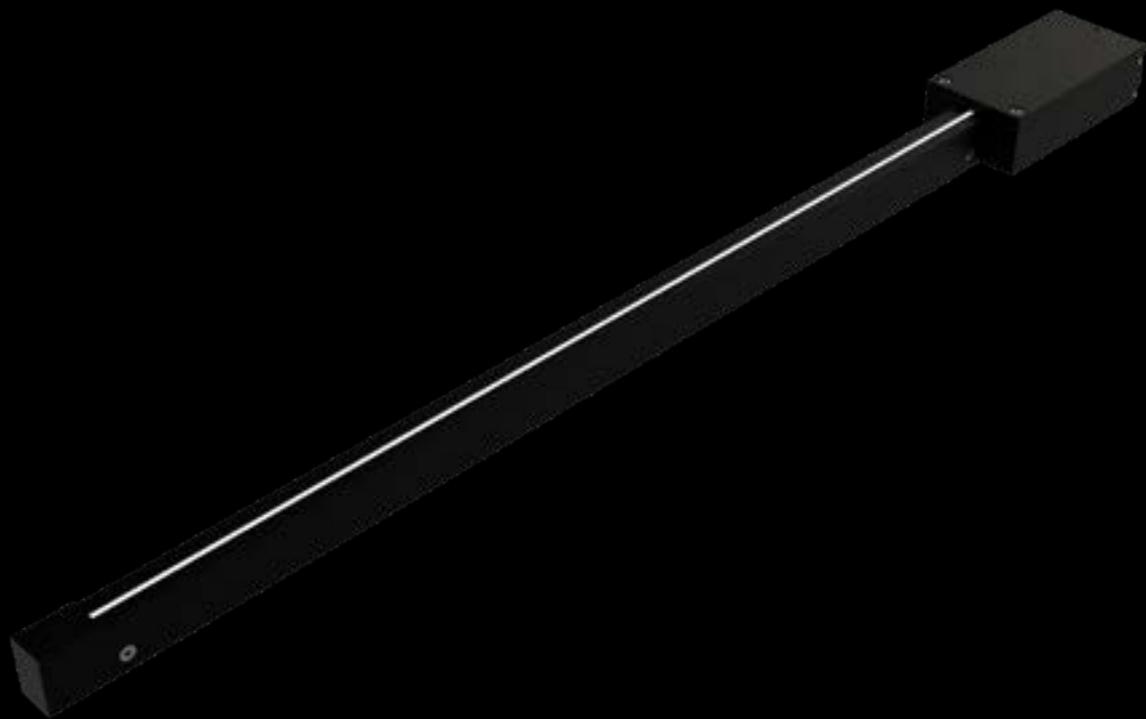


# LuxiLine

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## DATASHEET



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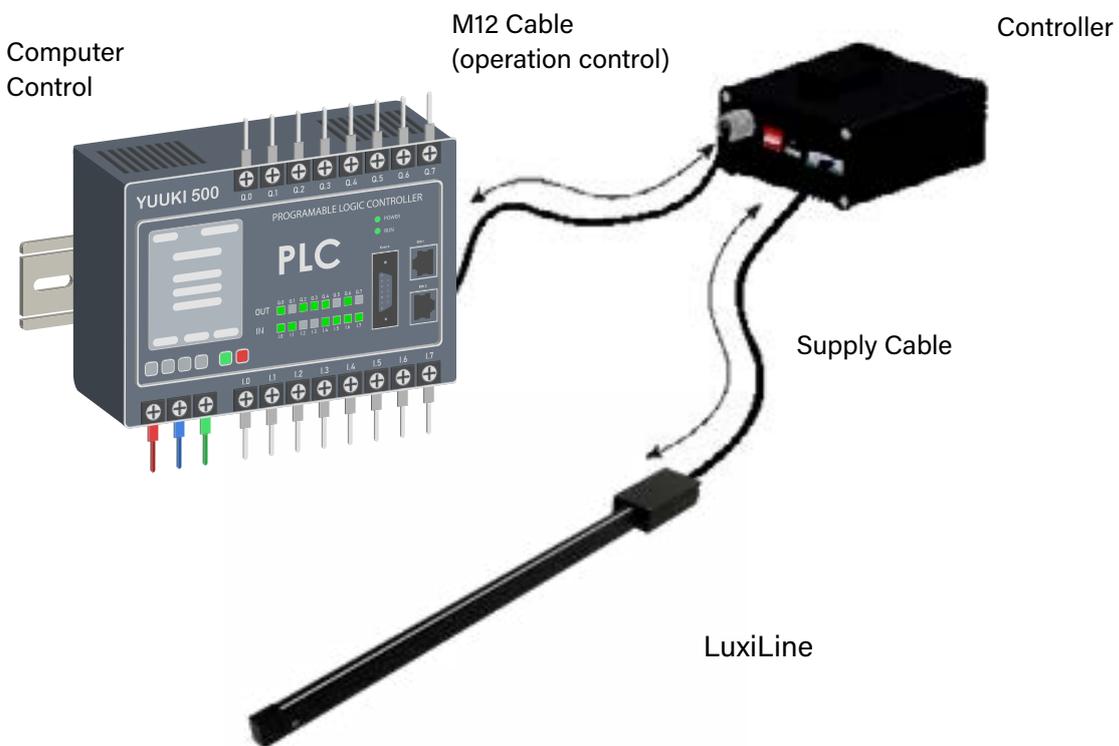
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# INTRODUCTION



## LuxiLine WHITE 5400°K

LuxiLine is a linear machine vision lighting solution optimized for line scan applications and powered by LuxiBright® technology. Its compact design delivers highly directional, uniform illumination with sharp contrast transitions, enabling precise defect detection even on complex or reflective surfaces. LuxiLine ensures superior brightness and clarity, enhancing the reliability and speed of inspection processes. Ideal for demanding environments such as semiconductors, electronics, and technical materials, it integrates seamlessly into existing vision systems to deliver fast, consistent, and accurate results.



# GENERAL SPECIFICATIONS



## LuxiLine WHITE 5400°K

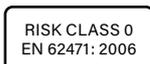
Components	LuxiLine
Length	300 mm
References	LLO-300-15
Light Emission Angle	FWHM 15°
Illuminance at optimal Working distance	500'000 lx @10 mm
Color	White
Color temperature	5400°K ±150°K
Distance between fixing holes	247 mm
Overdrive	x2.5
Strobe reactivity	<10 µs
Illumination Modes	Continuous / Trigger / Strobe
Mechanical Interface	DIN Rail Adaptor
Max. Power Consumption	19 W (Overdrive), 12 W (Nominal)
Electrical Interface	24 VDC / GND / Trig In
Frame Material	Aluminum
Mounting Holes	M4
Working Temperature	0-40°C
IP Rating	IP30
Weight	200g
Lighting Technology	LuxiBright®

\*At nominal current, it can be overdriven at 250% for 10 ms.

## ORDERING INFORMATION

LuxiLine	Size	Angle	M12 Cable	Supply Cable	Controller
LLO-300-15	300 mm	15°	AC-M12-1.5	AC-CBL-1M AC-CBL-2M	CTRL-LRO

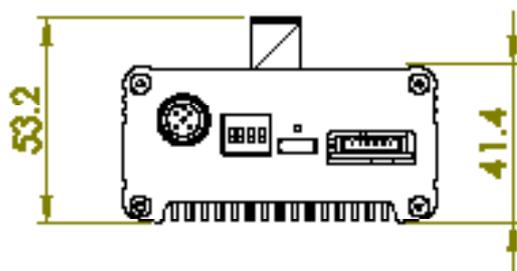
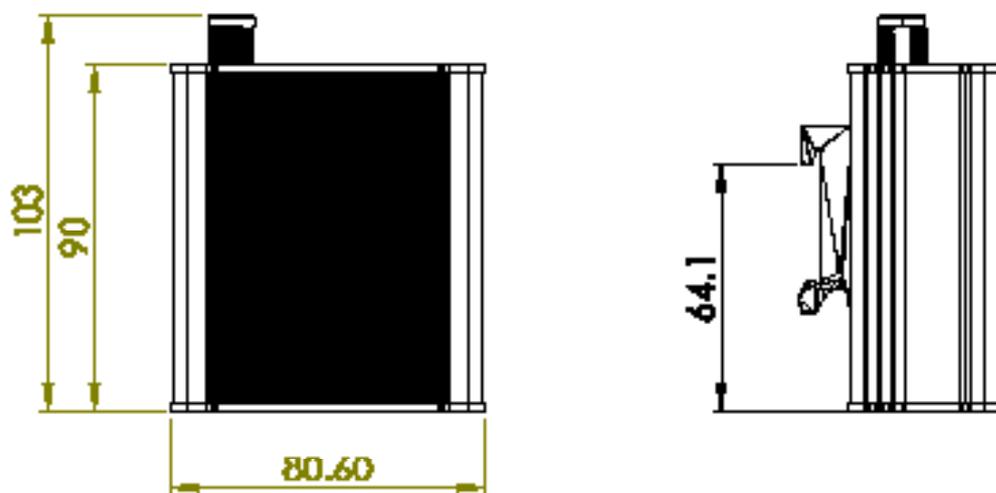
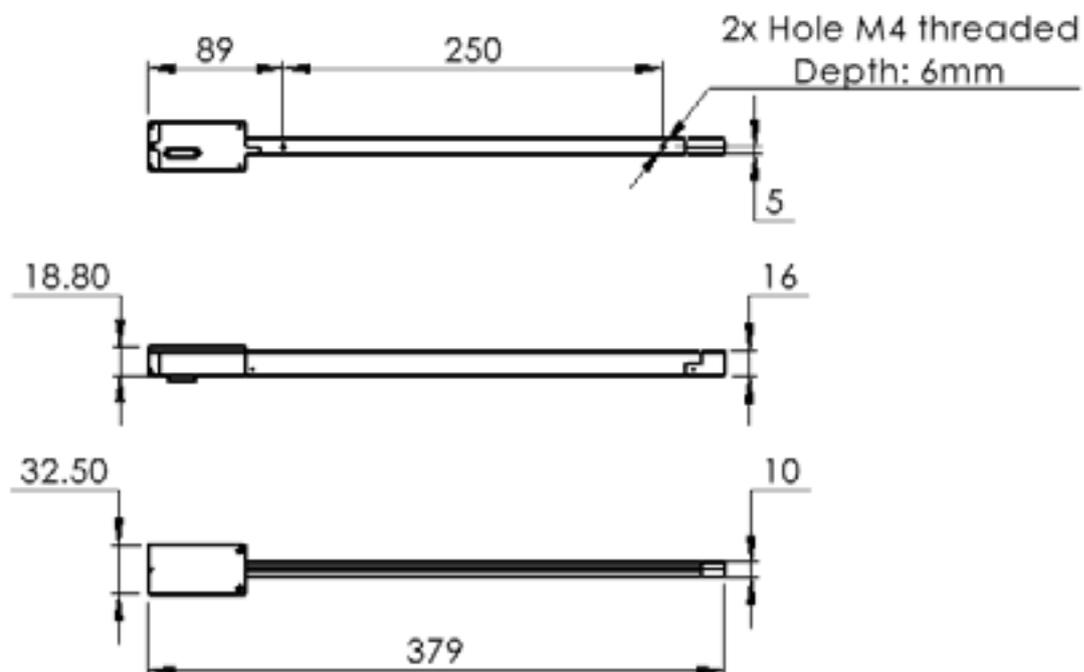
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# MECHANICAL INTERFACES (Dimensions in mm)



## LuxiLine WHITE 5400°K



# ELECTRICAL INTERFACE

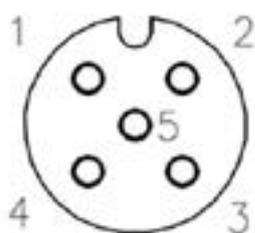


## CONTROLLER

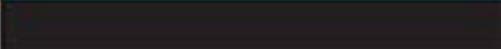
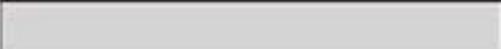
Components	Controller
<b>ELECTRICAL</b>	
Input Voltage	24 VDC
Output Power	30 W max
Maximum Current	1.5A
<b>ENVIRONMENTAL</b>	
Operating Temperature	0 to 40°C
Cooling Method	Passive cooling
<b>CONNECTORS</b>	
Controller's Input	3 wires terminal - to M12 5-pin - Power supply and External Trigger
Light source connector	I/O Connector: TE Connectivity / ERNI iBridge Ultra
<b>CONTROL</b>	
Run modes	Continuous or PNP Triggered
Control Method	Dip Switch Commutator, Manual Switch
Trigger input	12-26 VDC, PNP

## CABLING

Controller's input: 5 wires terminal-to M12 5-pin-power supply and external trigger



Ref : AC-M12-1.5

1	BN		24 VDC
2	WH		n.u.
3	BU		GND
4	BK		Trigger in 12-26 VDC
5	GY		n.u.

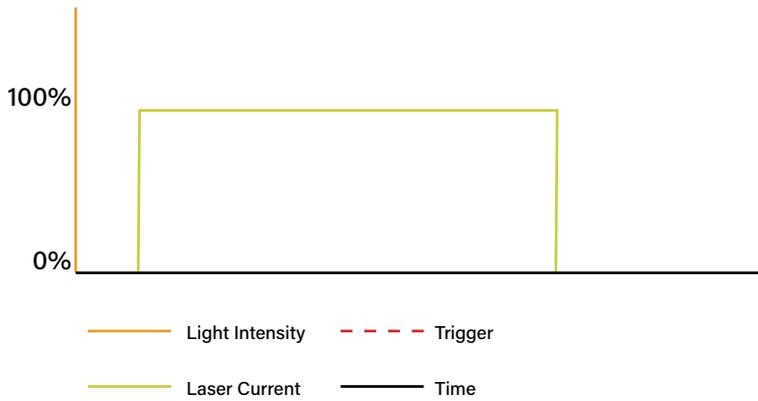
Light source connector: I/O connector:  
TE Connectivity / ERNI iBridge Ultra.

# OPERATING MODES

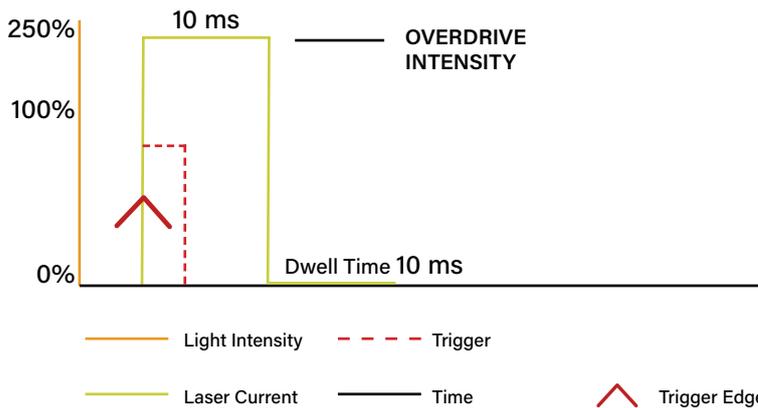
LuxiLine WHITE 5400°K



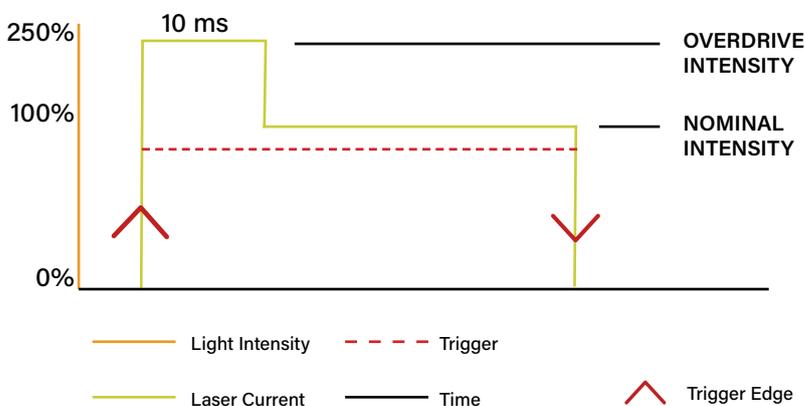
## 1. Continuous at nominal current



## 2. Rising edge + Overdrive



## 3. Following pulse + Overdrive \*

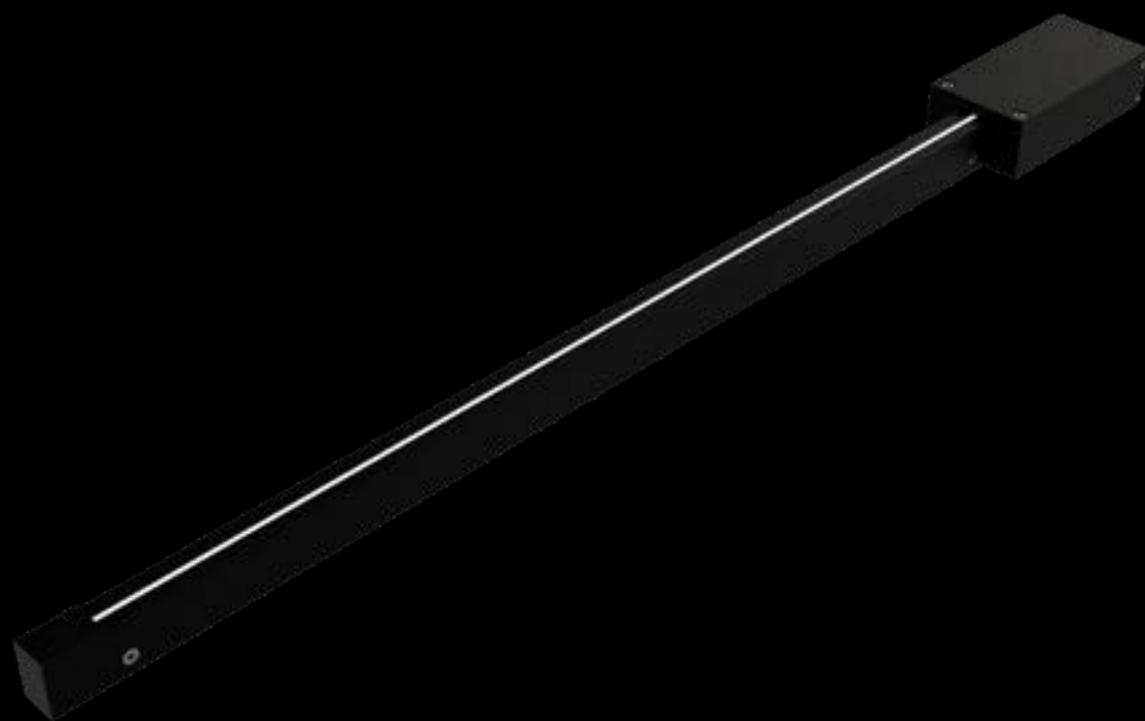


\* The operating cycle can impact the temperature of the lighting system. A built-in temperature control continuously monitors the system, and if the predefined temperature limit is exceeded, the lighting operation will automatically shut down to prevent overheating.

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