

The next generation of machine vision lighting, powered by LuxiBright®

MACHINE VISION LINE LIGHTS USER MANUAL

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PREAMBLE



LuxiLine WHITE 5400°K

This manual contains safety instructions and instructions for installing, connecting and using the LuxiLine. It is essential to follow these instructions to ensure optimal and safe use. Any improper use may invalidate the product warranty.

UNPACKING

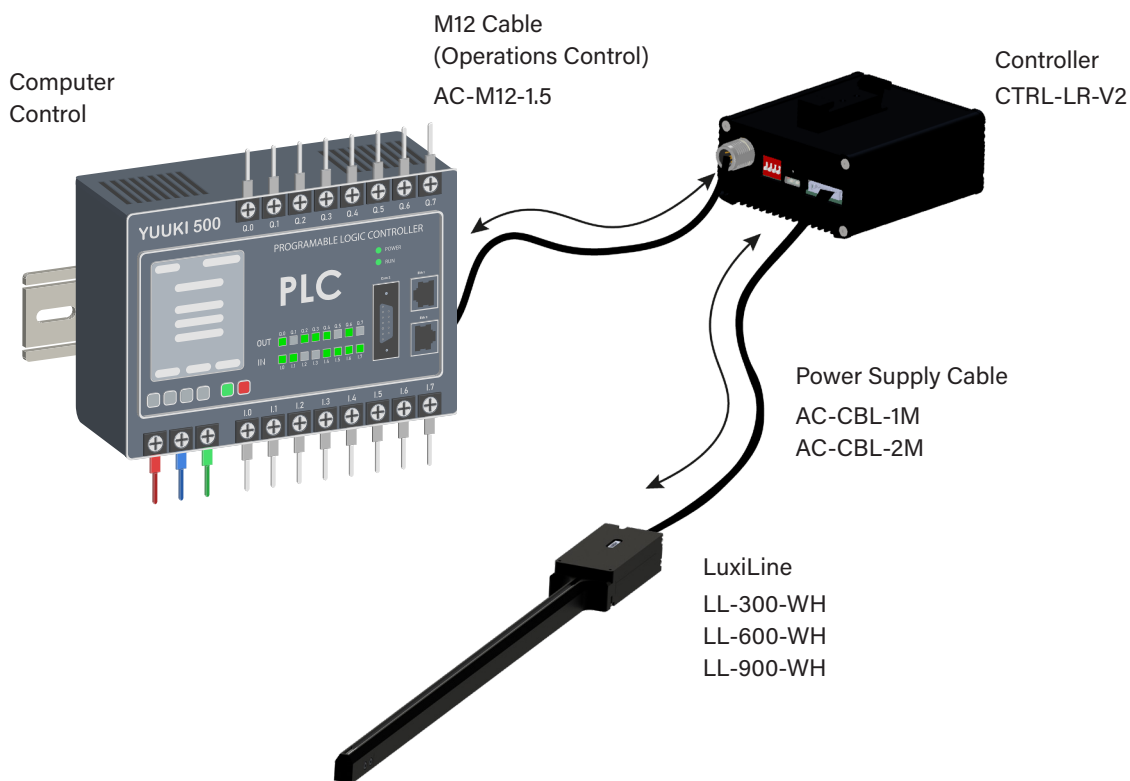
The product is packaged with care. In the event of visible damage on receipt, it is essential to report this to the carrier on the delivery note, and then to your supplier within 24 hours. Open the packaging without using a blade to avoid any damage to the product.

ORDER INFORMATION

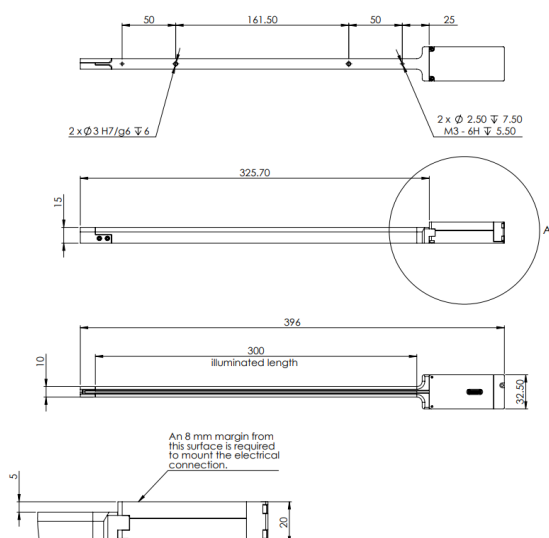
LuxiLine	Lenght	Angle	M12 Cable	Power Supply Cable	Controller
LL	XXX⌚	FWHM 15°	AC-M12-1.5	AC-CBL-1M AC-CBL-2M	CTRL-LR-V2

DIMENSIONS & FIXING

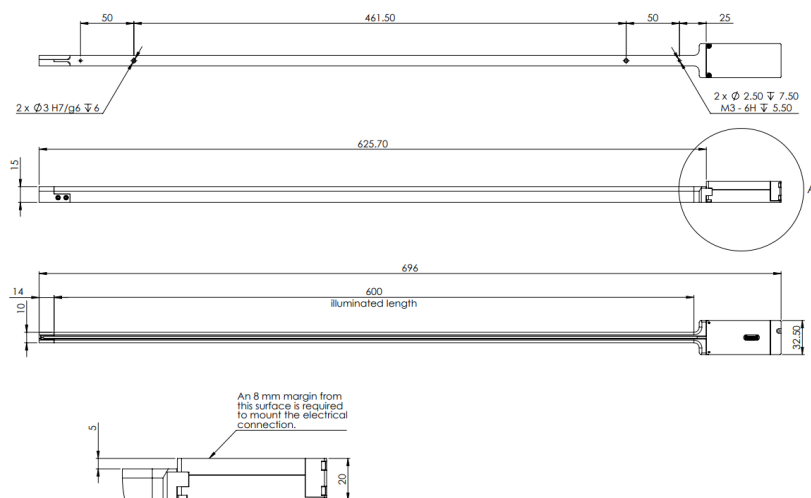
Standard dimensions are available. LuxiRing is fitted with M4 captive nuts for mounting. Use M4 screws (not supplied), with a tightening torque of 0.5 to 1.5 Nm.



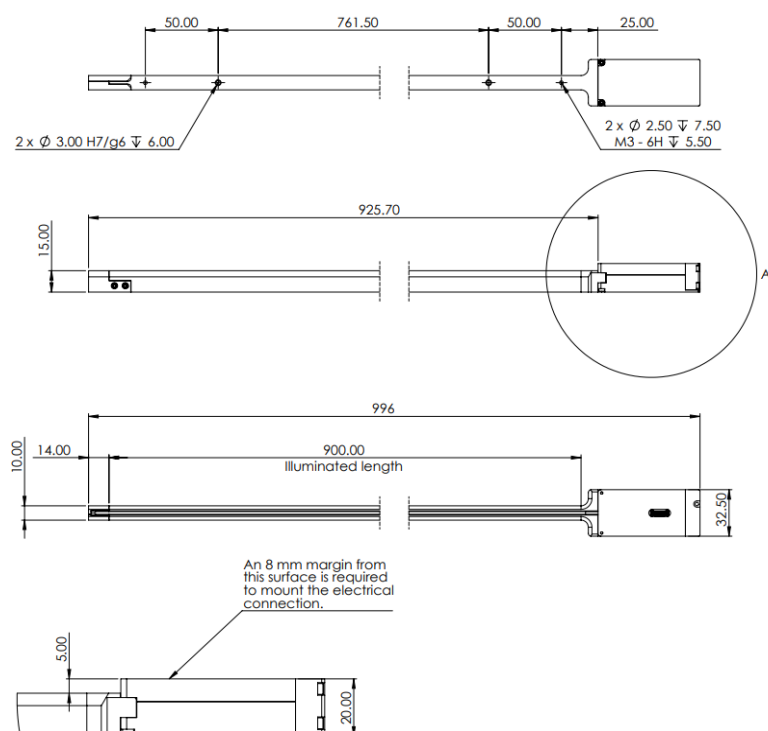
LuxiLine 300mm



LuxiLine 600mm



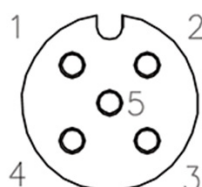
LuxiLine 900mm





CONNECTION & WIRING

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



1	BN	
2	WH	
3	BU	
4	BK	
5	GY	

24 VDC
Analog Dimming
0-10 VDC*
GND
Trigger en 12-26 VDC
n.d.

Ref : AC-M12-1.5

*Analog dimming range: 0-10 VDC.

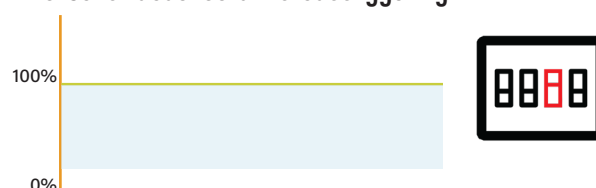
At 0 VDC, light intensity is 20%; at 10 VDC, light output is 100%.

OPERATING MODES (via DIP SWITCH)

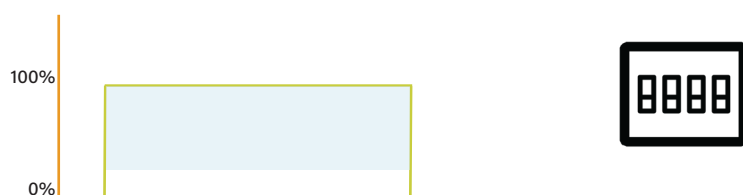
LuxiLine uses LuxiBright technology which may present photobiological risks. To ensure safety, wear suitable safety goggles. See classification table below:

Mode	Configuration	Description
0	SW3 ON	Continuous 100% without triggering
1	ALL OFF	Continuous nominal or via high/low trigger
2	SW1 ON	Rising edge detection + Overdrive
3	SW2 ON	Pulse tracking + Overdrive
4	SW4 ON	Analog Voltage DIMING

0. Continuous 100% without triggering



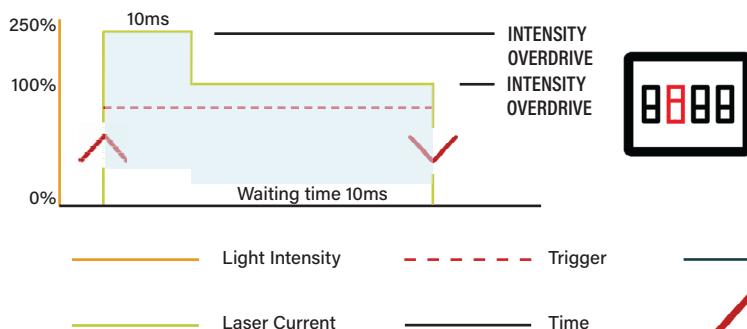
1. Continuous nominal or via high/low trigger



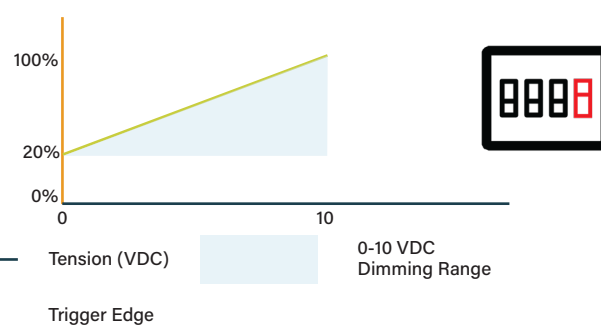
2. Rising edge detection + Overdrive



3. Pulse tracking + Overdrive



4. Analog Voltage DIMING



* The operating cycle can have an impact on the temperature of the lighting system. A built-in temperature control system constantly monitors the system, and if the preset temperature limit is exceeded, the lighting automatically shuts down to prevent overheating. In order to reboot the system, the power of the M12 Cable needs to be reset.

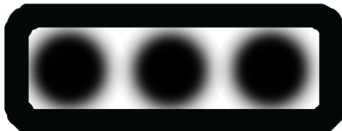
LED INDICATORS

Mode 1 : Ready without light (green LED)

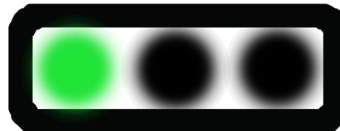
All Modes : Flashing red LED = error

Mode 2 & 3 : Constant green LED, blue LED on trigger detection

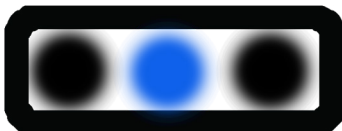
Mode 1



Mode 2



Mode 3



All Modes



POWER SUPPLY

Operating voltage : 24V (+/- 10%)

Max voltage : 26V

Min voltage : 12V

Input voltage : 24V

Trigger input : 12-26 VDC, PNP

IP Rating : IP30

OPERATING CONDITIONS

Temperature : 0°C to +40°C

Humidity : max 80%, non-condensing

Do not use outdoors

Do not dismantle or modify the product

Never look directly at the light source

MAINTENANCE

Cleaning only at standstill

Use a soft, dry cloth

Do not use solvents or abrasive products

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