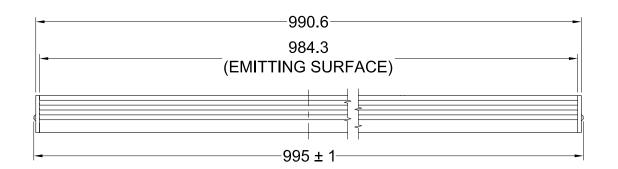
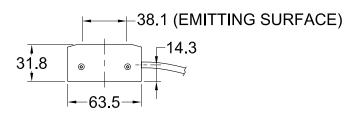
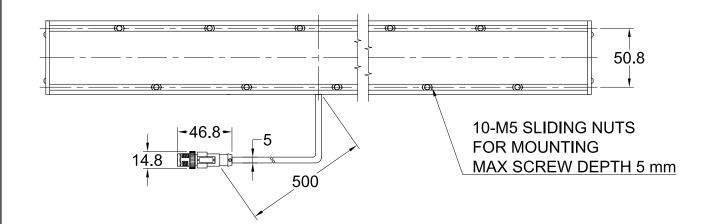
HL LIGHT FOR HBR-991063-RD/BL/GR/IR/SW KITS

Applicable Kit Models	HBR-991063-RD	HBR-991063-BL/GR/IR/SW
Power Consumption	48 W	53 W
Mass	3856 g	3856 g

Third Angle Projection All dimensions in mm







NOTES:

- HBR KIT INCLUDES HL LIGHT, HL CONTROLLER, AND 3m CABLE
- M12 X 1, MALE, 4-PIN, REVERSE KEYED CONNECTOR
- CONNECT HL LIGHT ONLY TO INCLUDED HL CONTROLLER
- IMPROPER CONNECTION WILL VOID WARRANTY

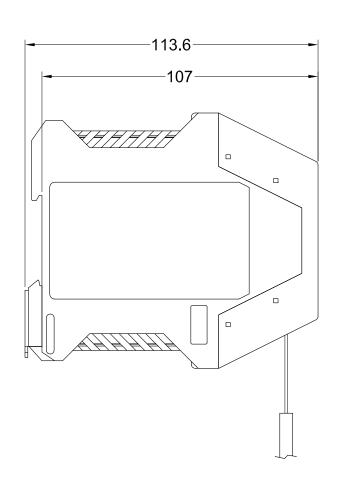
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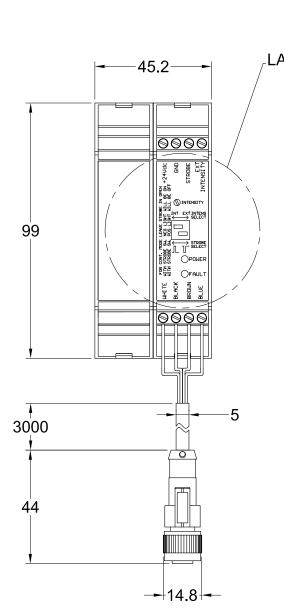
HL CONTROLLER FOR HBR-991063-RD/BL/GR/IR/SW KITS

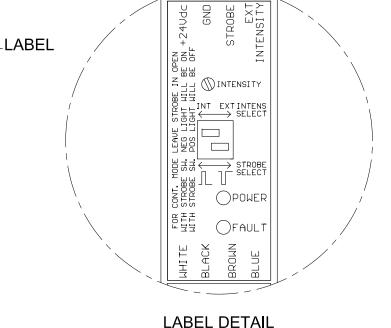
Applicable Kit Models HBR-991063-RD/BL/GR/IR/SW Input Voltage 24VDC 5A

Third Angle Projection

All dimensions in mm







NOTES:

- HBR KIT INCLUDES HL LIGHT, HL CONTROLLER, AND 3m CABLE
- M12 X 1, FEMALE, 4-PIN, REVERSE KEYED CONNECTOR
- DIN RAIL (35mm) MOUNT
- CONNECT HL LIGHT ONLY TO INCLUDED HL CONTROLLER
- IMPROPER CONNECTION WILL VOID WARRANTY

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HL Series

General Machine Vision Illumination

High Output Spot Lights and Bar Lights

Front, Spot, Dark Field, Low Angle Lighting

Applications

- Robot Guidance
- Web Inspections
- Package Sorting
- General Packaging
- Palletizing
- Food-Grade Washdown*

Performance

- High Intensity
- Large Area Illumination
- Long Stand-off Distances
- Long Life 50,000 hours (typical)
- Optional Lenses*



Design Features

- Controller and 3m cable included
- 24V input power to controller
- Controller drives continuous and non-overdriven strobe illumination
- Robust aluminum housing with superior heat transfer properties
- Efficient thermal management through heat fin design
- Adjustable mounting M5 nuts via (2) nut channels on back face
- RoHS compliant
- CE certified



Available LED Color & Peak Wavelength	•	Blue	470nm
	•	Green	530nm
	•	Red	635nm
	•	Infrared	840nm
	0	White	~ 5500K

HL Light Specifications

KIT PART NUMBER	POWER	WEIGHT		GTH m)	ADJUSTABLE	RECOMMENDED	MAXIMUM EXTENSION	
(Light, Controller, and 3m Cable)	LED COLOR	CONSUMPTION	IPTION (g)	A (Overall)	B (Emitting Surface)	MOUNTING NUTS (M5)	POWER SUPPLY FOR CONTROLLER	CABLE LENGTH (m)
HBR-045063-RD	•	1.5 W	317	44.5	38.1	1 x 2 rows	24VDC 0.5A	12
HBR-045063-BL/GR/IR/SW	• • • 0	1.5 W	317	44.5	38.1	1 x 2 rows	24VDC 0.5A	12
HBR-165063-RD	•	7.5 W	590	165.1	158.8	2 x 2 rows	24VDC 1A	12
HBR-165063-BL/GR/IR/SW	• • • 0	8.5 W	590	165.1	158.8	2 x 2 rows	24VDC 1A	12
HBR-317063-RD	•	15 W	1179	317.5	311.2	3 x 2 rows	24VDC 2A	9
HBR-317063-BL/GR/IR/SW	• • • 0	17 W	1179	317.5	311.2	3 x 2 rows	24VDC 2A	9
HBR-470063-RD	•	22.5 W	1406	469.9	463.6	4 x 2 rows	24VDC 2A	6
HBR-470063-BL/GR/IR/SW	• • • 0	25.5 W	1406	469.9	463.6	4 x 2 rows	24VDC 2A	6
HBR-622063-RD	•	30 W	2495	622.3	616.0	4 x 2 rows	24VDC 2A	6
HBR-622063-BL/GR/IR/SW	• • • 0	34 W	2495	622.3	616.0	4 x 2 rows	24VDC 2A	6
HBR-991063-RD	•	48 W	3856	990.6	984.3	5 x 2 rows	24VDC 5A	6
HBR-991063-BL/GR/IR/SW	• • • 0	53 W	3856	990.6	984.3	5 x 2 rows	24VDC 5A	3 / (6 for IR)

Operating Temperature	0°C to 45°C Humidity 0 to 90% (non-condensing)
Storage Temperature	-40°C to 100°C Humidity 0 to 90% (non-condensing)

Each kit includes a light, controller, and 3 meter cable



HL Controller

The HL Controller drives both continuous and non-overdriven strobe illumination. In strobe mode, the output pulse width follows the input pulse width. The light output intensity can be adjusted from 10% to 100% with the potentiometer or via external 0-10V analog signal. The potentiometer is recessed, multi-turn, screwadjustable, and features a slipping clutch to prevent damage.

Features

- 24V DC input
- Intensity control from 10% to 100% continuous or (non-overdriving) strobe mode operation
- DIN rail mountable
- Protective circuitry to prevent damage to light if is connected to wrong controller
- Recessed switches
- Compact

HL Controller Specifications

Input Voltage	24V DC ± 0.5V
Intensity	Adjustable from 10% to 100% output on-board or via external 0-10V analog signal (11V max)
Connections	2 x 4 position screw-type terminal blocks
Top (Input)	+24Vdc: + 24V DC input (± 0.5V) GND: Ground (-) STROBE: Strobe signal input (CMOS / TTL compatible, 24V max) EXT INTENSITY: External intensity control signal input (0-10V analog, 11V max)
Bottom	WHITE:Not for user access BLACK: Not for user access BROWN: Not for user access BLUE: Not for user access
Front Panel Indicators	POWER: indicates DC power presence FAULT: LED turns on when mismatched with light, no connection, or fault in light
Operating Temperature	0°C to 45°C Humidity 0 to 90% (non-condensing)
Storage Temperature	-40°C to 100°C Humidity 0 to 90% (non-condensing)
Included Cable	3 meter, M12 X 1, 4-pin, reverse-keyed, female connector
Dimensions	113.6mm (L) x 22.5mm (W) x 99mm (H)
Mounting	DIN rail (35mm)
Strobe Mode	Trigger response selectable between rising or falling edge of the trigger Output pulse width follows input pulse width
Trigger Inputs	CMOS / TTL compatible (24V max)
Minimum Pulse Width	10μs
Trigger to Pulse Delay	200ns maximum
Rise and Fall times	1μs
Continuous Mode	Leave the trigger input open, place trigger switch in falling edge position

