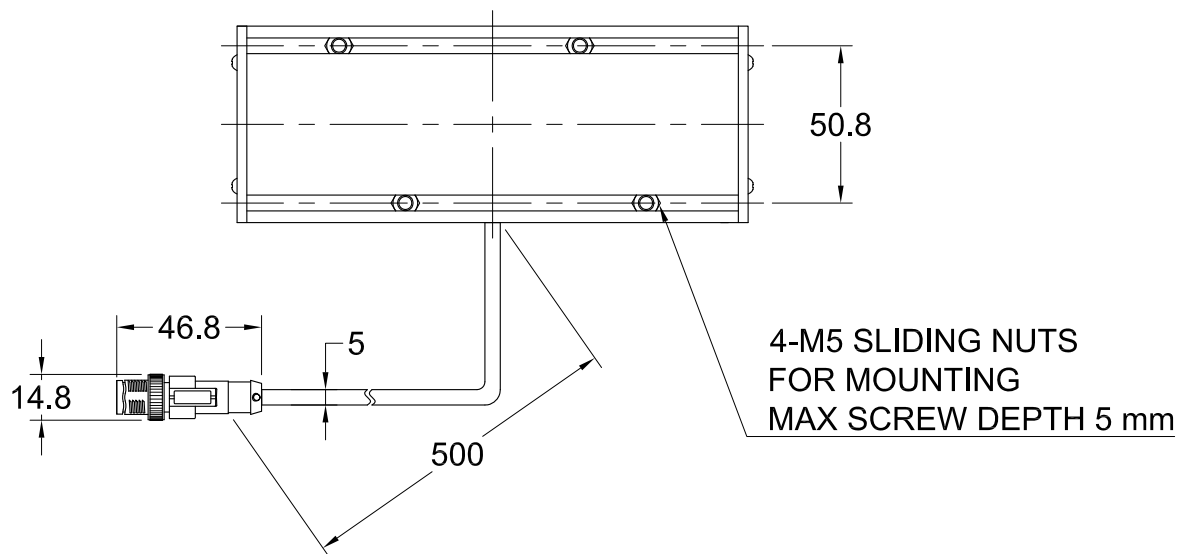
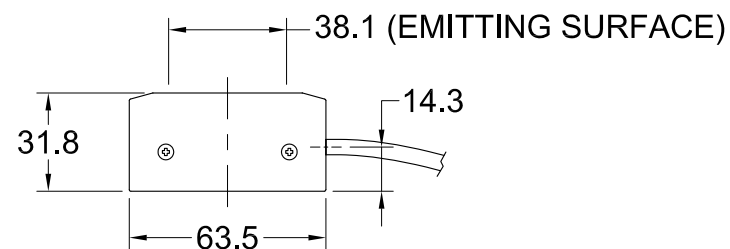
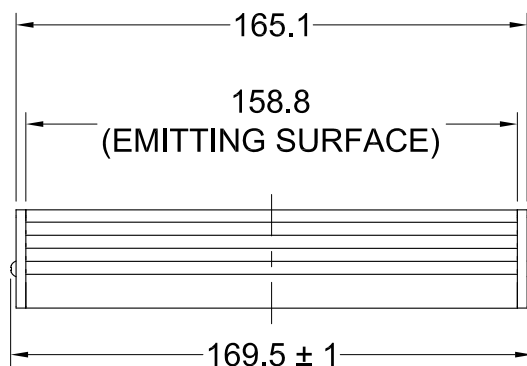


HL LIGHT FOR HBR-165063-RD/BL/GR/IR/SW KITS

Applicable Kit Models	HBR-165063-RD	HBR-165063-BL/GR/IR/SW
Power Consumption	7.5 W	8.5 W
Mass	590 g	590 g

Third Angle Projection All dimensions in mm



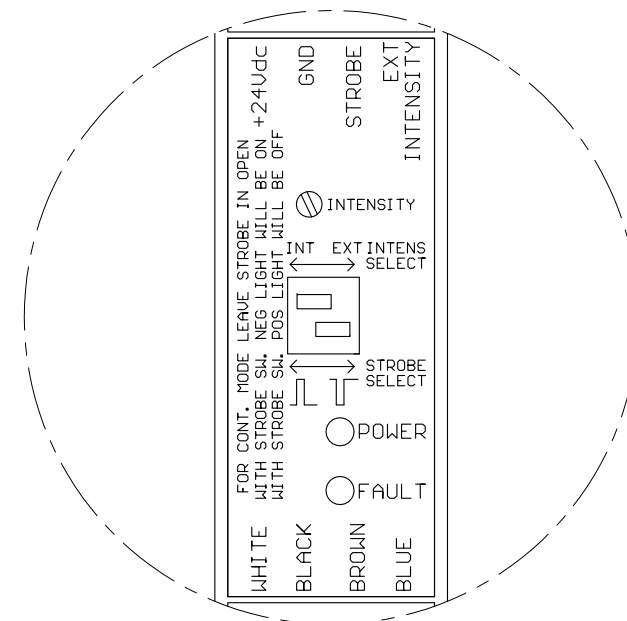
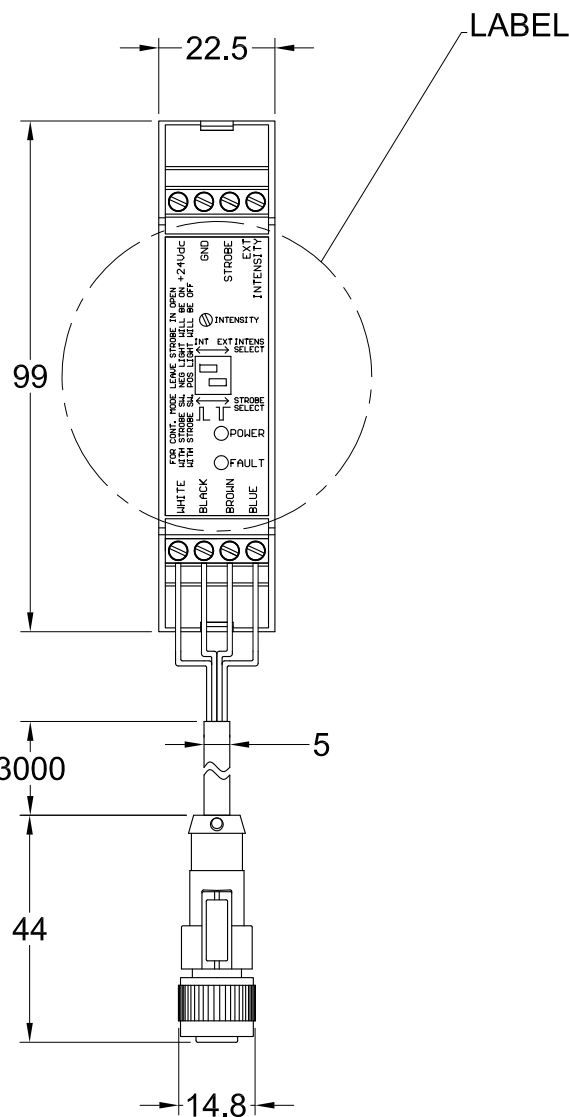
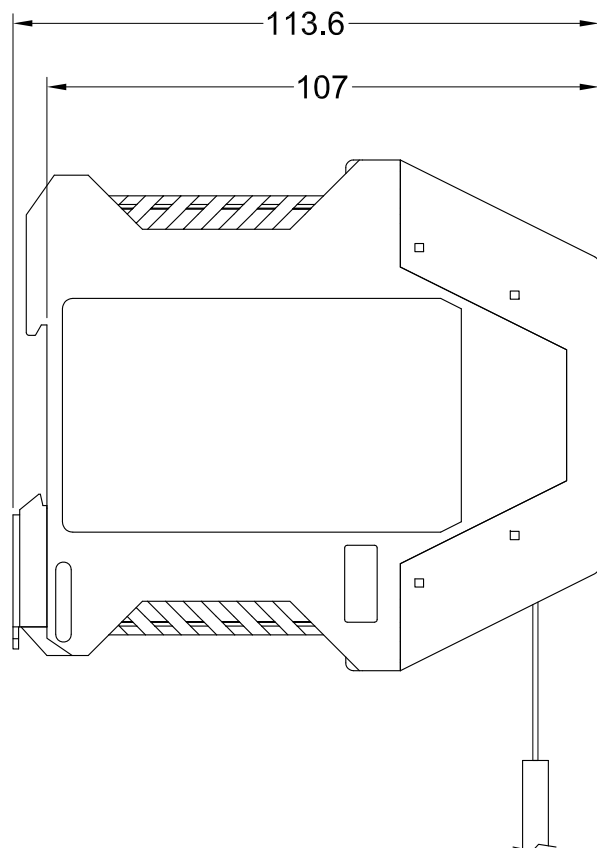
NOTES:

- 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

HL CONTROLLER FOR HL-165063-RD/BL/GR/IR/SW KITS

Applicable Kit Models	HBR-165063-RD/BL/GR/IR/SW
Input Voltage	24VDC 1A

Third Angle Projection All dimensions in mm



LABEL DETAIL

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

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
	White	~ 5500K

HL Light Specifications

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

* Available upon request



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, screw-adjustable, 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 $\pm$ 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 ($\pm$ 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	10 μ s
Trigger to Pulse Delay	200ns maximum
Rise and Fall times	1 μ s
Continuous Mode	Leave the trigger input open, place trigger switch in falling edge position



Do not connect HL light directly to a 24V DC power supply. Connect HL light only to supplied HL controller. Improper connection will void the warranty.
The BLUE wire is NOT common to ground. Connecting the BLUE wire to common ground will result in failure of the HL light, HL controller, or both, and will void the warranty.