Vision & Control GmbH
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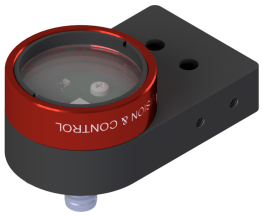
vicolux® Spot Light - SLB-500-IR850-P-SL

Short description: compact spot light, IR850, P-LED, variable work distance, basic version, smart light

Order number: 1-33-322

EAN: 4251692648230



Characteristics

- flashable high-power LED spot illumination without condensor optics (floodlights)
- compact, thermally optimized design
- high light output with wide beam angle, excellently suited e.g. for area illumination
- high uniformity in light distribution
- the pronounced mounting surface enables optimum heat dissipation
- robust, without movable adjustment elements
- the high light intensity as well as the optical design allow the use also at variable working distance
- eurrent embossing: Continuous operation and high-speed flash operation with 1µs pulse duration
- safe operation with vicolux® digital lighting controller (e.g. DLC3005)
- developed for the requirements of industrial image processing

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Technical data

Beam angle	110°
Luminous field diameter [1]	570 mm
Light colour (typ.)	Infrared, 850 nm
Special feature	Flashable with flash controller
Continuous operation	
• Power consumption	2.4 W
• Irradiance [1]	5.4 W/m^2
• Illuminance [1]	-
• Radiance [2]	45.8 kW/m^{2}sr
• Luminance [2]	-
Flash mode	
• Power consumption	16.8 W
• Irradiance [1]	23.7 W/m^2
• Illuminance [1]	-
• Radiance [3]	549.7 kW/m^{2}sr
• Luminance [3]	-
Housing material	Aluminium, black anodised
Optical material	Glass
Filter thread	M28 x 0.5
Weight	58 g
Degree of protection	IP 50
Safety class	Class III, safety extra low voltage (SELV)
Risk group (DIN EN 62471)	Continuous operation: Risk group 0 (exempt group) Flash mode: Risk group 0 (exempt group)
Ambient temperature	-10 °C bis +45 °C

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[1] at 200 mm working distance

[2] at 11 mrad

[2] at 1.7 mrad

Notices

The lighting can only be operated in conjunction with a lighting controller or a suitable current source.
vicolux® smart light lighting controllers limit the electrical parameters automatically and also monitor the temperature of the device.

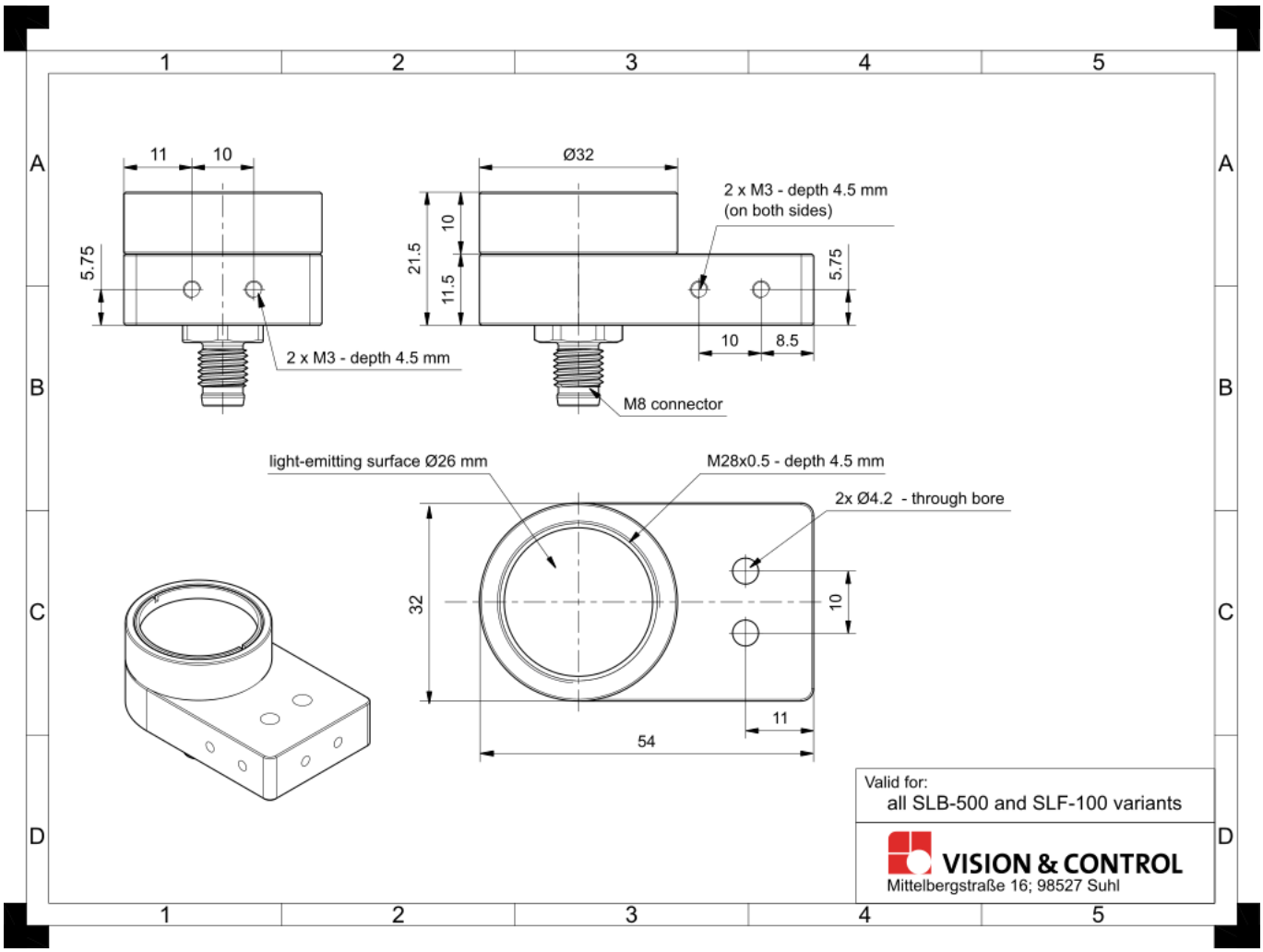
Can be combined with

Order number	Title	Description
LED Controller DLC3005		
1-30-202	DLC3005	LED lighting controller, digital, cont./flash current: 4.8A/18A, wall mounting
1-30-209	DLC3005-R	LED lighting controller, digital, cont./flash current: 4.8A/18A, DIN rail mounting

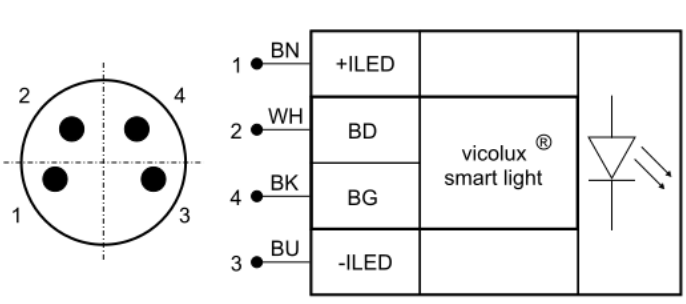
Accessories for Spot lights - SLB-500-IR850-P-SL

Order number	Title	Description
Connection cable M8-4pin		
1-11-611	Cable-M8-4p-5A-straight-1m	4x0.5mm², 5A, 30V, PUR, IP67, M8-4pin straight socket to free cable end
1-11-612	Cable-M8-4p-5A-straight-2m	4x0.5mm², 5A, 30V, PUR, IP67, M8-4pin straight socket to free cable end
1-11-613	Cable-M8-4p-5A-straight-3m	4x0.5mm², 5A, 30V, PUR, IP67, M8-4pin straight socket to free cable end
1-11-614	Cable-M8-4p-5A-straight-5m	4x0.5mm², 5A, 30V, PUR, IP67, M8-4pin straight socket to free cable end
1-11-609	Cable-M8-4p-4A-straight-5m	4x0.25mm², 4A, 60V, PUR, IP67, M8-4pin straight socket to free cable end
1-11-605	Cable-M8-4p-4A-angled-2m	4x0.25mm², 4A, 60V, PUR, IP67, M8-4pin angled socket to free cable end
1-11-604	Cable-M8-4p-4A-angled-5m	4x0.25mm², 4A, 60V, PUR, IP67, M8-4pin angled socket to free cable end
Extension cable M8-4pin		
1-11-093	Extension cable-M8-4p-5A-0.6m	4x0.5mm², 5A, 30V, PUR, IP67, M8-4pin straight socket to M8-4pin straight plug
1-11-094	Extension cable-M8-4p-5A-1.5m	4x0.5mm², 5A, 30V, PUR, IP67, M8-4pin straight socket to M8-4pin straight plug
1-11-095	Extension cable-M8-4p-5A-3.0m	4x0.5mm², 5A, 30V, PUR, IP67, M8-4pin straight socket to M8-4pin straight plug

Drawings



Dimensional drawing in mm



Pin	Aderfarbe	Signal	Beschreibung
1	BN (braun)	+ILED	LED-Anode, positiver Stromeingang
2	WH (weiß)	BD	Data Channel für vicolux® smart light Module (1)
4	BK (schwarz)	BG	Data Channel für vicolux® smart light Module (1)
3	BU (blau)	-ILED	LED-Kathode, negativer Stromeingang

(1) Nur in Verbindung mit vicolux® smart light Beleuchtungscontrollern verwenden.

Pin assignment: M8 connector