Vision & Control GmbH
Phone: +49 36 81 / 79 74 11
www.vision-control.com

vicolux® Telecentric Light - TZB38-R630-HP-24V

Short description: Telecentric light, red, LF diameter: 38 mm, P-LED, 24V, inspection

Order number: 1-33-546



Characteristics

- telecentric LED lighting - parallel (collimated) beam path
- for the detection of inclusions and defects in transparent materials such as gemstones also suitable for the targeted highlighting of edges and surface structures in incident light
- ideal as backlight in combination with telecentric lenses
- low divergence, high light output
- lighting controller integrated in the housing - brightness pre-set
- connection: M8 plug on the casing
- diverse attachment options and extensive accessories

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Technical data

Light-emitting surface	Diameter: 48 mm
Light design	Telecentric
Light colour (typ.)	Red, 630 nm
Operating mode	Continuous operation Switching operation
Operation voltage	24 VDC (19V ... 29V)
Housing material	Aluminium, black anodised
Optical material	Glass
Filter thread	-
Weight	280 g
Degree of protection	IP 50
Safety class	Class III, safety extra low voltage (SELV)
Ambient temperature	0 °C ... 45 °C
[1]	at a working distance of 200 mm
[2]	at 11 mrad

Can be combined with

Order number	Title	Description
TO30 blue vision series		
2-05-547	TO30/4.3-100-V-BW	Telecentric Lens, C-mount, sensor opt. 1/4", aperture F8 - F22, blue
2-05-551	TO30/4.3-100-F8-BW-RF	Telecentric Lens, C-mount, sensor opt. 1/4", aperture F8, vibration-proof, blue
2-05-555	TO30/4.3-100-F14-BW-RF	Telecentric Lens, C-mount, sensor opt. 1/4", aperture F14, vibration-proof, blue
2-05-548	TO30/6.0-100-V-BW	Telecentric Lens, C-mount, sensor opt. 1/3", aperture F8 - F22, blue
2-05-552	TO30/6.0-100-F10-BW-RF	Telecentric Lens, C-mount, sensor opt. 1/3", aperture F8, vibration-proof, blue
2-05-556	TO30/6.0-100-F14-BW-RF	Telecentric Lens, C-mount, sensor opt. 1/3", aperture F14, vibration-proof, blue
2-05-549	TO30/9.1-85-V-BW	Telecentric Lens, C-mount, sensor opt. 1/1.8", aperture F10 - F22, blue
2-05-553	TO30/9.1-85-F10-BW-RF	Telecentric Lens, C-mount, sensor opt. 1/1.8", aperture F10, vibration-proof, blue
2-05-557	TO30/9.1-85-F14-BW-RF	Telecentric Lens, C-mount, sensor opt. 1/1.8", aperture F14, vibration-proof, blue
2-05-550	TO30/11.1-80-V-BW	Telecentric Lens, C-mount, sensor opt. 2/3", aperture F10 - F22, blue
2-05-554	TO30/11.1-80-F10-BW-RF	Telecentric Lens, C-mount, sensor opt. 2/3", aperture F10, vibration-proof, blue
2-05-558	TO30/11.1-80-F14-BW-RF	Telecentric Lens, C-mount, sensor opt. 2/3", aperture F14, vibration-proof, blue

Accessories for Telecentric lights - TZB38-R630-HP-24V

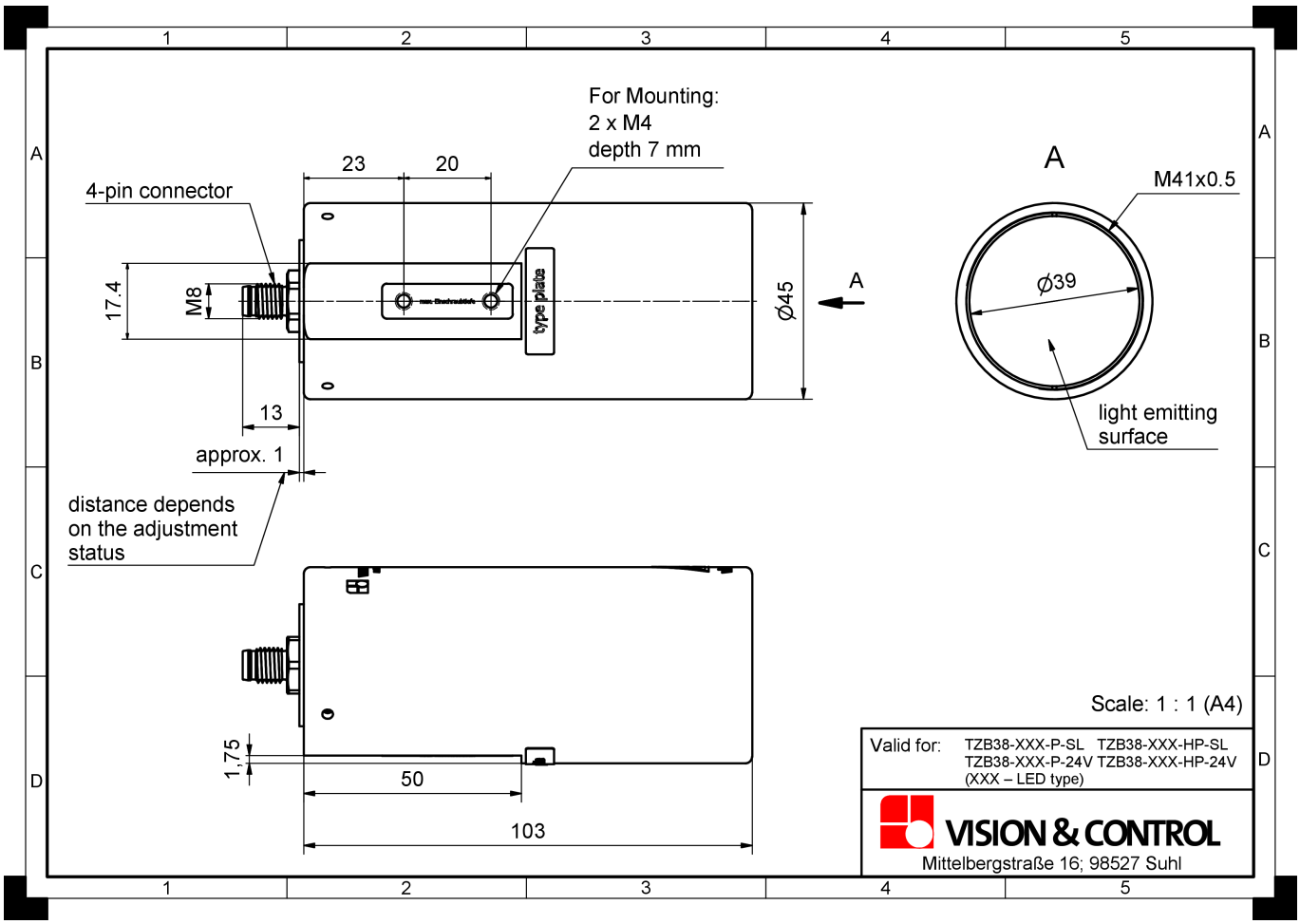
Order number	Title	Description
Lens mount		
2-91-331	Mounting angle	Holder for telecentric lenses and lightings with with threaded hole M5

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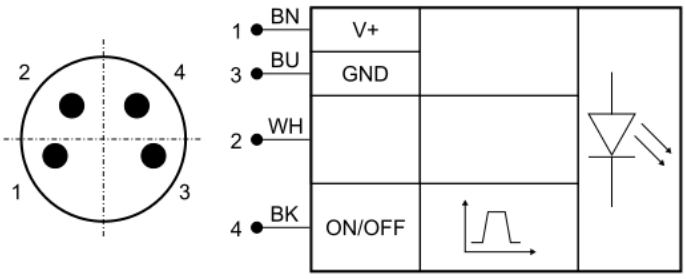
Order number	Title	Description
2-91-332	Mounting angle SH	Holder for telecentric lenses and lightings with with slotted hole for M4-M6
2-91-333	Mounting plate SH	Holder for telecentric lenses and lightings with with slotted hole for M4-M6
2-90-139	Lens Holder d45	Holder for telecentric lenses and lightings with d = 45 mm
2-91-330	Lens Holder d45 wide	Holder for telecentric lenses and lightings with d = 45 mm, width = 32 mm
Polarising filters		
2-91-220	Pole filter M40.5x0.5	linear polarizing filter, range 420 nm - 780 nm, filter thread M40.5x0.5
Filter adapter		
2-91-189	Filter adapter d45-M40.5	slip-on adapter for use of a M40.5x0.5 filter on lenses with 45 mm clamping diameter
Deflection mirrow 90° series		
2-25-128	Deflection mirror 90-45	90° deflection, attachment for telecentric lenses and lightings with d = 45 mm
Beam splitter STE60x60		
1-20-050	STE60x60-VIS	Beam splitter unit for coaxial light system, optimized for 450-700 nm
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
1-11-614	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

Order number	Title	Description
1-11-607	Cable-M8-4p-4A-straight-10m	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
1-11-606	Cable-M8-4p-4A-angled-10m	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
Power supply		
4-40-218	Power supply 24V-120W-5A	for DIN rail mounting, without connection cable, type: SDR-120-24

Drawings



Dimensional drawing in mm



Pin	Core colour	Signal	Description
1	BN (brown)	V+	Operating voltage
2	WH (white)	NC	Do not use
3	BU (blue)	GND	Ground
4	BK (black)	ON/OFF	Switch input

Pin assignment: M8 connector