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

vicolux® Telecentric Light - TZB28-R630-HP-24V

Short description: Telecentric light, red, LF diameter: 28 mm, P-LED, 24V, inspection

Order number: 1-33-525



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: 28 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	170 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
TO18 blue vision series		
2-05-535	TO18/4.1-100-V-BW	Telecentric Lens, C-mount, sensor opt. 1/4", aperture F6 - F22, blue
2-05-539	TO18/4.1-100-F6-BW-RF	Telecentric Lens, C-mount, sensor opt. 1/4", aperture F6, vibration-proof, blue
2-05-543	TO18/4.1-100-F14-BW-RF	Telecentric Lens, C-mount, sensor opt. 1/4", aperture F14, vibration-proof, blue
2-05-536	TO18/6.0-95-V-BW	Telecentric Lens, C-mount, sensor opt. 1/3", aperture F8 - F22, blue
2-05-540	TO18/6.0-95-F8-BW-RF	Telecentric Lens, C-mount, sensor opt. 1/3", aperture F8, vibration-proof, blue
2-05-544	TO18/6.0-95-F14-BW-RF	Telecentric Lens, C-mount, sensor opt. 1/3", aperture F14, vibration-proof, blue
2-05-537	TO18/9.0-85-V-BW	Telecentric Lens, C-mount, sensor opt. 1/1.8", aperture F10 - F22, blue
2-05-541	TO18/9.0-85-F10-BW-RF	Telecentric Lens, C-mount, sensor opt. 1/1.8", aperture F10, vibration-proof, blue
2-05-545	TO18/9.0-85-F14-BW-RF	Telecentric Lens, C-mount, sensor opt. 1/1.8", aperture F14, vibration-proof, blue
2-05-538	TO18/11.0-80-V-BW	Telecentric Lens, C-mount, sensor opt. 2/3", aperture F10 - F22, blue
2-05-542	TO18/11.0-80-F10-BW-RF	Telecentric Lens, C-mount, sensor opt. 2/3", aperture F10, vibration-proof, blue
2-05-546	TO18/11.0-80-F14-BW-RF	Telecentric Lens, C-mount, sensor opt. 2/3", aperture F14, vibration-proof, blue

Accessories for Telecentric lights - TZB28-R630-HP-24V

Order number	Title	Description
Lens mount		
2-90-124	Lens Holder d35,5	Holder for telecentric lenses and lightings with d = 35,5 mm

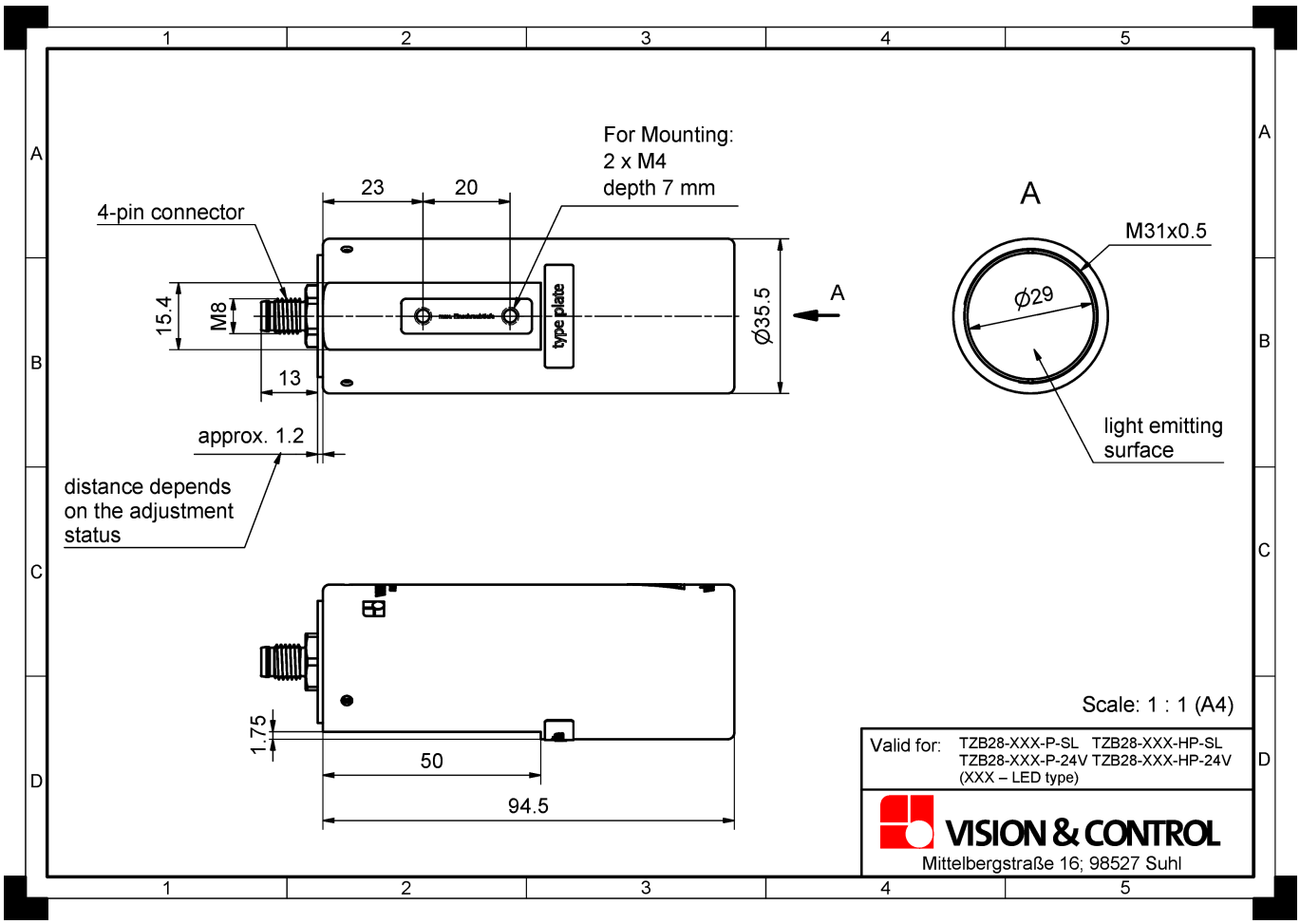
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Order number	Title	Description
Polarising filters		
2-91-227	Pole filter M30.5x0.5	linear polarizing filter, range 420 nm - 780 nm, filter thread M30.5x0.5
Filter adapter		
2-91-188	Filter adapter d35.5-M30.5	slip-on adapter for use of a M30.5x0.5 filter on lenses with 35.5 mm clamping diameter
Deflection mirrow 90° series		
2-25-116	Deflection mirror 90-35.5	90° deflection, attachment for telecentric lenses and lightings with d = 35.5 mm
Beam splitter STE30x30		
1-18-050	STE30x30-VIS	Beam splitter unit for coaxial light system, optimized for 450-700 nm
1-18-024	Adapter STE30x30 - TZO35,5	Attachment of the STE30x30 to telecentric lenses and lightings with d = 35.5 mm
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
1-11-607	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

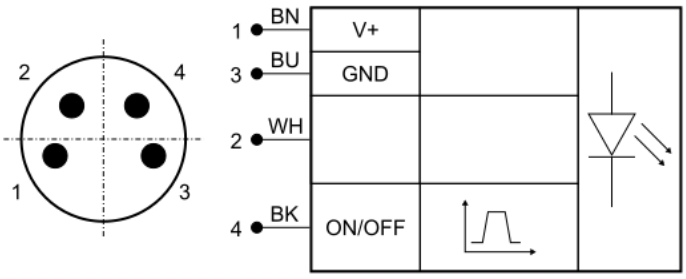
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Order number	Title	Description
Extension cable M8-4pin		
1-11-093	Extension cable-M8-4p-5A-0.6m	4x0.5mm², 5A, 30V, PUR, IP67, M8-4pin straight socket to M8-4pin straight plug
1-11-094	Extension cable-M8-4p-5A-1.5m	4x0.5mm², 5A, 30V, PUR, IP67, M8-4pin 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