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

vicolux® Telecentric Light - TZB72-B450-HP-24V

Short description: Telecentric light, blue, LF diameter: 72 mm, P-LED, 24V, inspection

Order number: 1-33-580



Characteristics

- telecentric LED lighting - parallel (collimated) beam path
- specially developed for optical measurement technology;
  also suitable for the targeted highlighting of edges and surface structures in transmitted light
- ideal as backlight in combination with telecentric lenses
- very low divergence
- lighting controller integrated in the housing - brightness pre-set
- connection: M8 plug on the casing
- diverse attachment options and extensive accessories

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

Technical data

Light-emitting surface	Diameter: 72 mm
Light design	Telecentric
Light colour (typ.)	Blue, B450
Operating mode	Continuous operation Switching operation
Operation voltage	24 VDC (19V ... 29V)
Housing material	Aluminium, black anodised
Optical material	Glass
Filter thread	M77 x 0.75
Weight	870 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
[3]	bei 1.7 mrad

Can be combined with

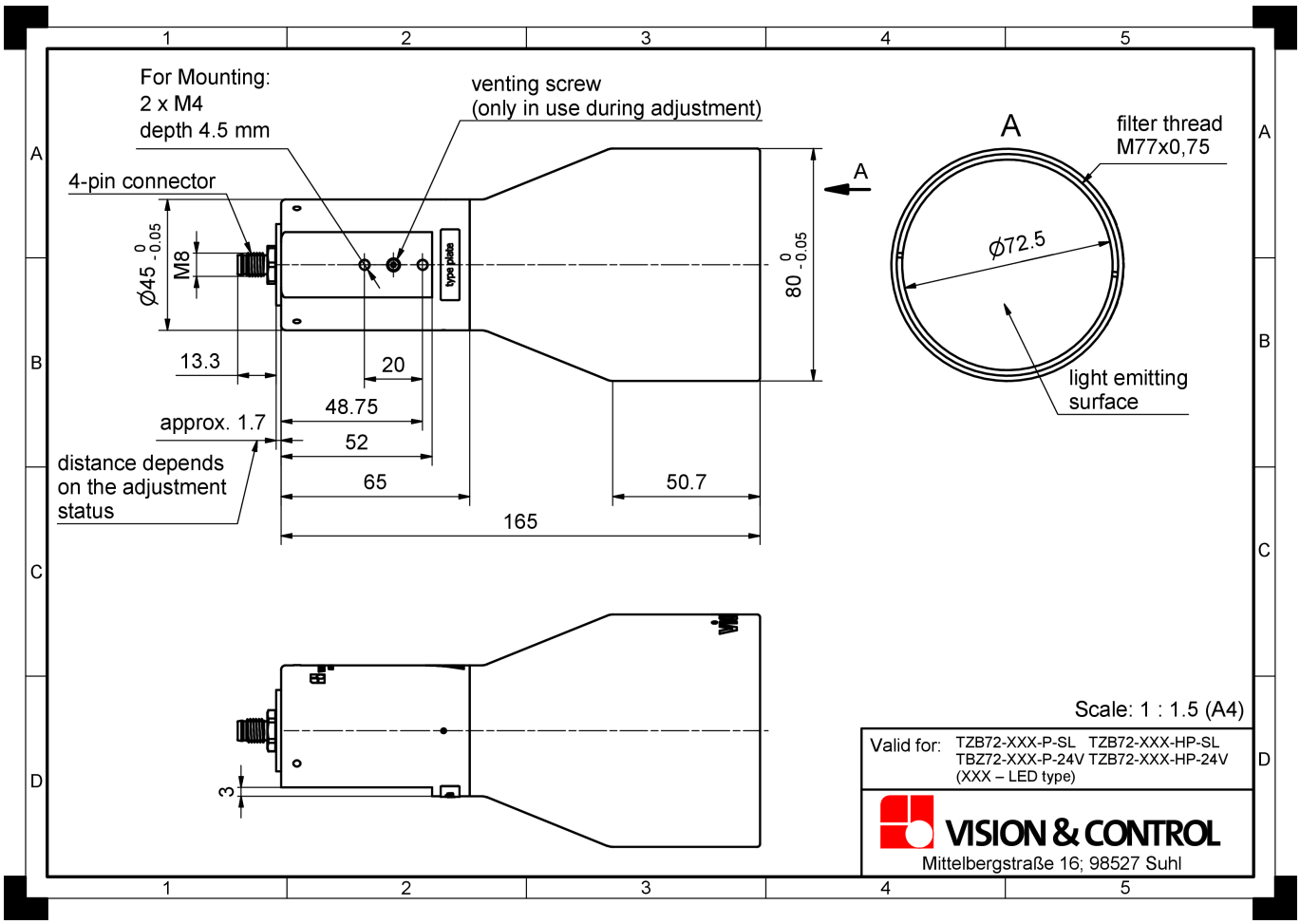
Order number	Title	Description
TO66 series		
2-05-682	TO66/6.0-240-V-BW	Telecentric Lens, C-Mount, Sensor opt. 1/3", aperture F6 - F22, blue
2-05-683	TO66/9.0-210-V-BW	Telecentric Lens, C-Mount, Sensor opt. 1/1,8", aperture F6 - F22, blue
2-05-684	TO66/11.0-200-V-BW	Telecentric Lens, C-Mount, Sensor opt. 2/3", aperture F6 - F22, blue
2-05-685	TO66/16.0-160-V-BW	Telecentric Lens, C-Mount, Sensor opt. 1", aperture F6 - F22, blue
2-05-686	TO66/21.3-130-V-BW	Telecentric Lens, C-Mount, Sensor opt. Typ 4/3, aperture F8 - F22, blue
2-05-687	TO66/28.5-120-V-BW	Telecentric Lens, M42, Sensor opt. DX, aperture F10 - F22, blue

Accessories for Telecentric lights - TZB72-B450-HP-24V

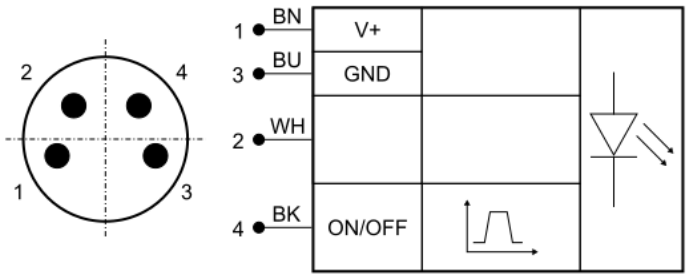
Order number	Title	Description
Lens mount		
2-91-333	Mounting plate SH	Holder for telecentric lenses and lightings with with slotted hole for M4-M6
2-90-139	Lens Holder d45	Holder for telecentric lenses and lightings with d = 45 mm
2-91-330	Lens Holder d45 wide	Holder for telecentric lenses and lightings with d = 45 mm, width = 32 mm
Polarising filters		
2-91-144	Pole filter M52x0.75	linear polarizing filter, range 420 nm - 780 nm, filter thread M52x0.75
Deflection mirrow 90° series		
2-25-129	Deflection mirror 90-80	90° deflection, attachment for telecentric lenses and lightings with d = 80 mm
Beam splitter STE60x60		

Order number	Title	Description
1-20-050	STE60x60-VIS	Beam splitter unit for coaxial light system, optimized for 450-700 nm
1-20-024	Adapter STE60x60 - TZO80	Attachment of the STE60x60 to telecentric lenses and lightings with d= 80 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
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