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

vicolux® Telecentric Light - TZB51-IR880/UDC/-a

Short description: telecentric light, IR850, lf diameter: 49 mm, flashable by flash controller

Order number: 1-10-943

EAN: 4251692646434

Characteristics

- flashable telecentric LED lighting - parallel (collimated) beam path
- ideal as backlight in combination with telecentric lenses
- for the targeted highlighting of edges and surface structures as well as for the detection of inclusions and defects in transparent materials
- connection: cable with M8 connector
- diverse attachment options and extensive accessories

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Technical data

Light-emitting surface	Diameter: 49 mm
Light design	Telecentric
Light colour (typ.)	Infrared, 880 nm
Special feature	Flashable max. 0,5 ms und 15% on-time
Continuous current ($I_{LED)}$	max. 100 mA
Pulse mode	3 x I_{LED}
Flash mode	6 x I_{LED}
Housing material	Aluminium, black anodised
Optical material	Glass
Filter thread	M52 x 0.75 - depth 6 mm
Weight	530 g
Degree of protection	IP50
Safety class	Class III, safety extra low voltage (SELV)
Risk group (DIN EN 62471)	Freie Gruppe
Ambient temperature	0 °C ... 45 °C

Notices

The lighting can only be operated in conjunction with a suitable Current source.

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Accessories for Telecentric lights - TZB51-IR880/UDC/-a

Order number	Title	Description
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		
2-25-115	Deflection mirror 90-56	90° deflection, attachment for telecentric lenses and lightings with d = 56 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

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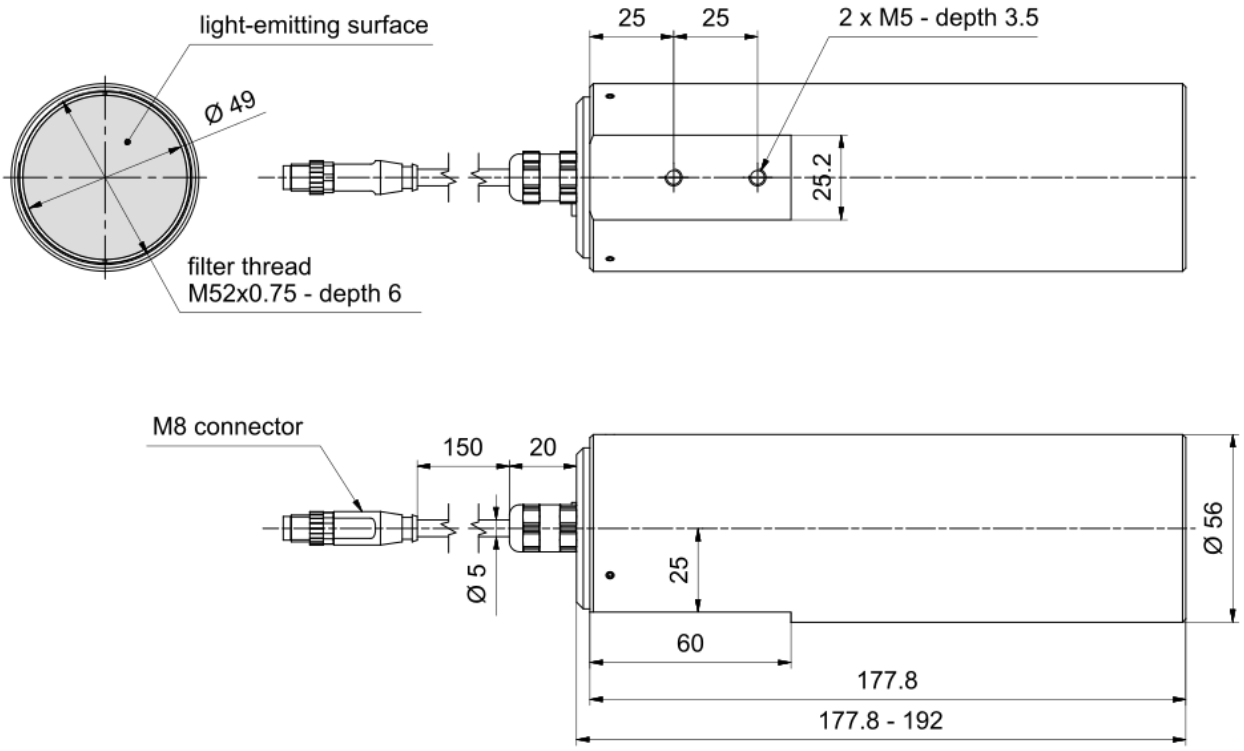
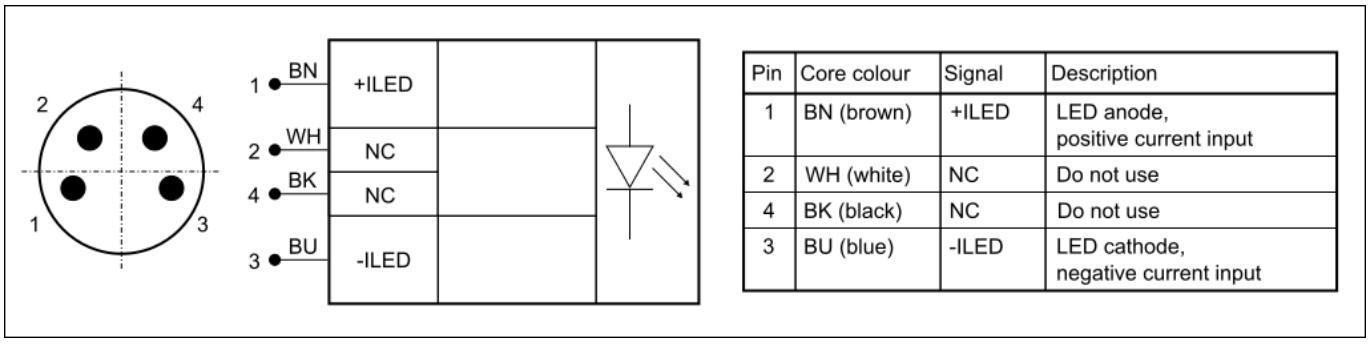
Drawings



Dimensional drawing in mm



Pin	Core colour	Signal	Description
1	BN (brown)	+ILED	LED anode, positive current input
2	WH (white)	NC	Do not use
4	BK (black)	NC	Do not use
3	BU (blue)	-ILED	LED cathode, negative current input

Pin assignment: M8 connector