Vision & Control GmbH
Phone: +49 36 81 / 79 74 11
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vicolux® Telecentric Light - TZB130-IR850-HP-24V

Short description: Telecentric light, IR, LF diameter: 130 mm, P-LED, 24V, inspection

Order number: 1-33-646



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

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Technical data

Light-emitting surface	Diameter: 130 mm
Light design	Telecentric
Light colour (typ.)	Infrarot, IR850
Operating mode	Continuous operation Switching operation
Operation voltage	24 VDC (19V ... 29V)
Housing material	Aluminium, black anodised
Optical material	Glass
Filter thread	M100 x 1
Weight	2990 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
TO125-Serie		
2-05-850	TO125/6.0-310-V-BW	Telecentric Lens, C-Mount, Sensor opt. 1/3", aperture F6 - F22, blue
2-05-851	TO125/9.0-220-V-BW	Telecentric Lens, C-Mount, Sensor opt. 1/1,8", aperture F6 - F22, blue
2-05-852	TO125/11.0-200-V-BW	Telecentric Lens, C-Mount, Sensor opt. 2/3", aperture F6 - F22, blue
2-05-853	TO125/16.0-190-V-BW	Telecentric Lens, C-Mount, Sensor opt. 1", aperture F6 - F22, blue
2-05-854	TO125/21.4-190-V-BW	Telecentric Lens, C-Mount, Sensor opt. Typ 4/3, aperture F8 - F22, blue
2-05-855	TO125/28.5-190-V-BW	Telecentric Lens, M42, Sensor opt. DX, aperture F10 - F22, blue

Accessories for Telecentric lights - TZB130-IR850-HP-24V

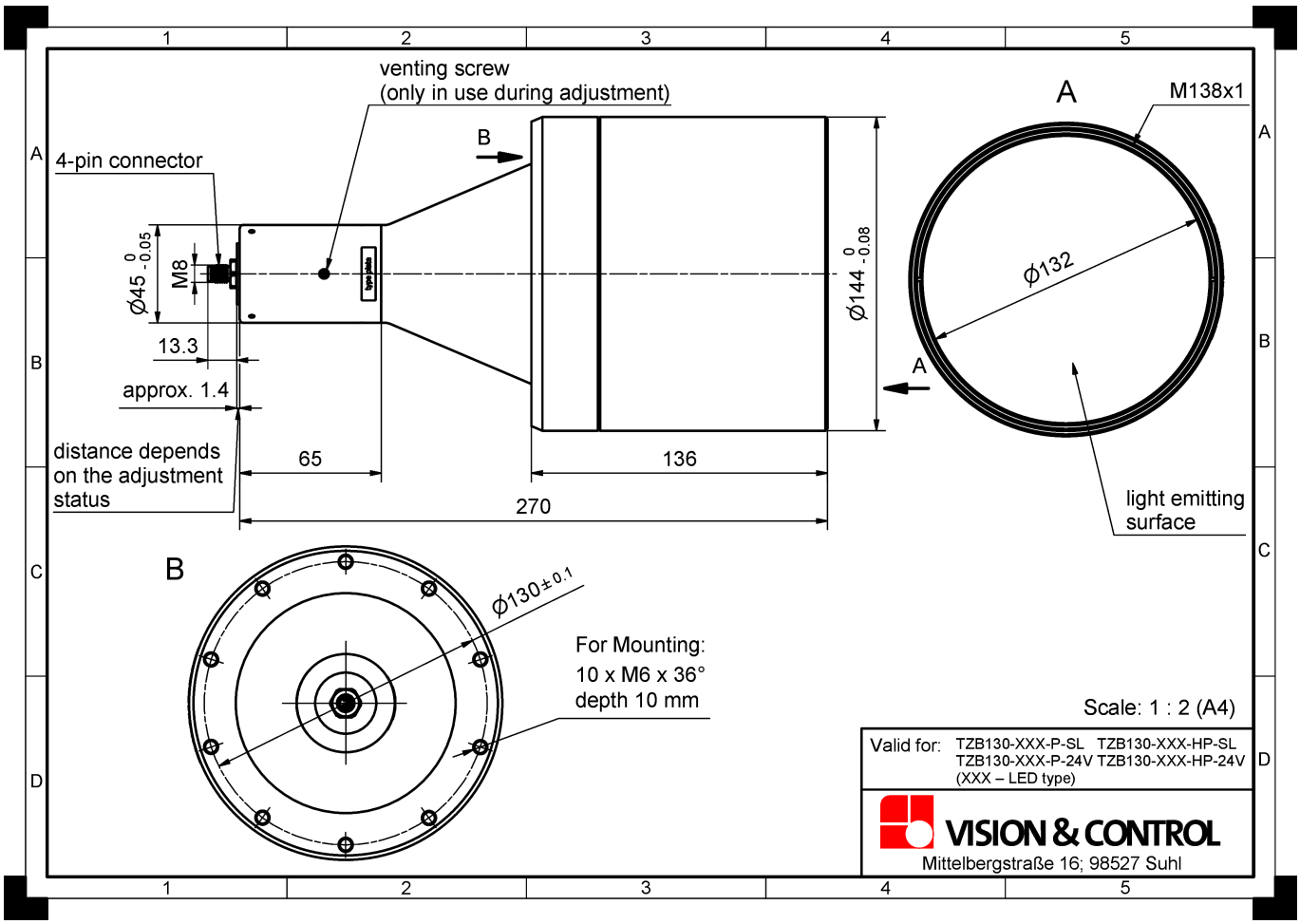
Order number	Title	Description
Lens mount		
2-91-331	Mounting angle	Holder for telecentric lenses and lightings with with threaded hole M5
2-91-332	Mounting angle SH	Holder for telecentric lenses and lightings with with slotted hole for M4-M6
2-91-333	Mounting plate SH	Holder for telecentric lenses and lightings with with slotted hole for M4-M6
2-91-330	Lens Holder d45 wide	Holder for telecentric lenses and lightings with d = 45 mm, width = 32 mm
2-91-336	Mounting Bracket TO125	Holder for telecentric lenses of the series TO125 with threaded hole M5
2-91-337	Mounting Bracket TO125 SH	Holder for telecentric lenses of the series TO125 with slotted hole for M4-M6
Connection cable M8-4pin		

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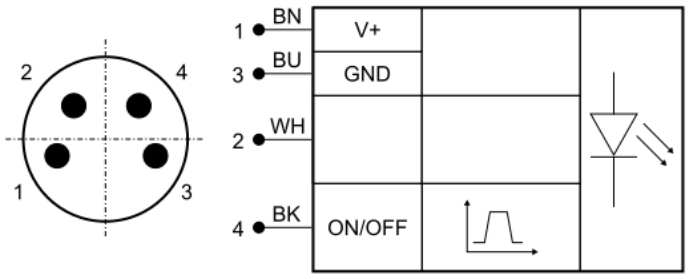
Order number	Title	Description
1-11-611	Cable-M8-4p-5A-straight-1m	4x0.5mm², 5A, 30V, PUR, IP67, M8-4pin straight socket to free cable end
1-11-612	Cable-M8-4p-5A-straight-2m	4x0.5mm², 5A, 30V, PUR, IP67, M8-4pin straight socket to free cable end
1-11-613	Cable-M8-4p-5A-straight-3m	4x0.5mm², 5A, 30V, 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

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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