

TCCX066-W

Coaxial telecentric lens for 2/3" detectors, WD 135 mm, magnification 0.66x, white

SPECIFICATIONS

Magnification	(x)	0.660
Image circle Ø	(mm)	11

Object field of view (8)

with 1/3" detector (4.8 x 3.6 mm)	(mm x mm)	7.27 x 5.45
with 1/2.5" detector (5.70 x 4.28 mm)	(mm x mm)	8.64 x 6.48
with 1/2" detector (6.4 x 4.8 mm)	(mm x mm)	9.70 x 7.27
with 1/1.8" detector (7.13 x 5.37 mm) (7)	(mm x mm)	10.8 x 8.14
with 2/3" - 5 MP detector (8.45 x 7.07 mm)	(mm x mm)	12.8 x 10.7

Optical specifications

Working distance (1)	(mm)	132.3
wF/# (2)		12
Telecentricity typical (max) (3)	(deg)	0.04 (0.06)
Distortion typical (max) (4)	(%)	0.1 (0.20)
Field depth (5)	(mm)	2.3
CTF @ 35 lp/mm	(%)	> 58

Electrical specifications

Light color, peak wavelength	(nm)	white
------------------------------	------	-------

Device power ratings

DC voltage minimum	(V)	12
DC voltage maximum	(V)	24
Power consumption	(W)	< 2.5
Max LED forward current 7	(mA)	350

LED power ratings

Forward voltage (typical) 8	(V)	2.78
Forward voltage (max) 8	(V)	-
Max pulse current 9	(mA)	2000

Dimensions

Mount		C
Length (6)	(mm)	149.8
Diameter	(mm)	37.7
Mass	(g)	516

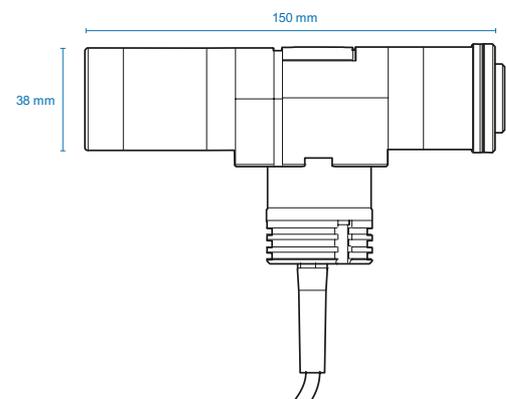
Eye safety

Risk group according to CEI EN 62471:2010		Risk group 1
---	--	--------------

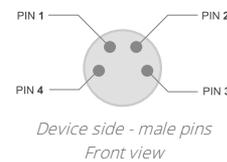
NOTES

- Working distance: distance between the front end of the mechanics and the object. Set this distance within +/- 3% of the nominal value for maximum resolution and minimum distortion.
- Working F/#: the real F/# of a lens when used as a macro. Lenses with smaller apertures can be supplied on request.
- Maximum slope of chief rays inside the lens: when converted to milliradians, it gives the maximum measurement error for any millimeter of object displacement. Typical (average production) values and maximum (guaranteed) values are listed.
- Percent deviation of the real image compared to an ideal, undistorted image: typical (average production) values and maximum (guaranteed) values are listed.
- At the borders of the field depth the image can be still used for measurement but, to get a perfectly sharp image, only half of the nominal field depth should be considered. Pixel size used for calculation is 5.5 µm.

All product specifications and data are subject to change without notice to improve reliability, functionality, design or other. Photos and pictures are for illustration purposes only.



CONNECTION



Pinout reference

PIN	FUNCTION
1	Earth
2	GND
3	LED Anode
4	Power supply (+12÷24 V)



6. Measured from the front end of the mechanics to the camera flange.
7. Used in continuous (not pulsed) mode.
8. At max forward current. Tolerance is $\pm 0.06V$ on forward voltage measurements.
9. At pulse width ≤ 10 ms, duty cycle $\leq 10\%$ condition. Built-in electronics board must be bypassed (see tech info).

COMPATIBLE PRODUCTS

Electronics and cables
Power supplies, power and interface cables

CB244P1500	Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels
CB244P1500L	Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels
