

# LTCLHP023-W

Telecentric HP illuminator, beam diameter 16 mm, white

## SPECIFICATIONS

### Optical specifications

Beam diameter	(mm)	16
Working distance range	(mm)	45 - 90
Light color, peak wavelength (1)		white

### Mechanical specifications

Length (2)	(mm)	96.8
Outer diameter	(mm)	28
Mass	(g)	156

### Electrical specifications

#### Device power ratings

DC voltage minimum (3)	(V)	12
DC voltage maximum (3)	(V)	24
Power consumption	(W)	< 2.5
Max LED forward current (4)	(mA)	350
Cables		CB244P1500 included

#### LED power ratings

Forward voltage (typical) (5)	(V)	2.78
Forward voltage (max) (5)	(V)	-
Max pulse current (6)	(mA)	2000

#### Eye safety

Risk group according to CEI EN 62471:2010	Risk group 1
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Last update: 2021-06-22

## NOTES

1. Opto Engineering® recommends green light for high precision measurement applications
2. Nominal value, with no spacers in place
3. Tolerance ± 10%
4. Used in continuous (not pulsed) mode
5. At max forward current. Tolerance is ±0.06V on forward voltage measurements
6. At pulse width ≤ 10 ms, duty cycle ≤ 10% condition. Built-in electronics board must be bypassed (see tech info)

## COMPATIBLE PRODUCTS

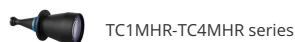
Despite the efforts made to generate an error-free compatibility list, we always recommend to consult the Opto Engineering® technical support department before purchasing a compatible product. Opto Engineering® shall not be liable for any damage or malfunctioning caused by the incorrect selection of a compatible product.



TC series

Bi-telecentric lenses for sensors up to 2/3"

TC23004	Bi-telecentric lens for 2/3" detectors, magnification 2.000 x, C-mount
TC23007	Bi-telecentric lens for 2/3" detectors, magnification 1.333 x, C-mount
TC23009	Bi-telecentric lens for 2/3" detectors, magnification 1.000 x, C-mount
TC23012	Bi-telecentric lens for 2/3" detectors, magnification 0.735 x, C-mount

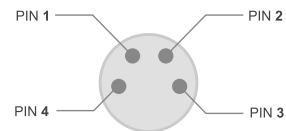


TC1MHR-TC4MHR series

Telecentric lenses for sensors up to 4/3"



## CONNECTION



Device side - male pins  
Front view

### Pinout reference

Pin	Function
1	Earth
2	GND
3	LED Anode
4	Power supply (+12+24 V)



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.

TC4M004-C	Telecentric lens for 4/3" detectors, magnification 4.000 x, C-mount
TC4M004-F	Telecentric lens for 4/3" detectors, magnification 4.000 x, F-mount
TC4M007-C	Telecentric lens for 4/3" detectors, magnification 2.667 x, C-mount
TC4M007-F	Telecentric lens for 4/3" detectors, magnification 2.667 x, F-mount
TC4M009-C	Telecentric lens for 4/3" detectors, magnification 2.000 x, C-mount
TC4M009-F	Telecentric lens for 4/3" detectors, magnification 2.000 x, F-mount



#### Accessories

Accessories and add-ons to make the most of Opto Engineering® lenses.

LED1W-W	Replacement LED source, white
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#### CMHO series

Clamping mechanics for lenses

CMHO023	Clamping mechanics for TCxx004, 007, 009, 012 and LTCLHP023-X
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#### LTSCHP series

High-performance replacement LED modules

LTSCHP1W-W	Replacement LED module, white
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#### PS series

Power supplies

RT-SDR-120-24	24VDC DIN rail power supply
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#### CB series

Cables

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

LED lighting controllers

LTIC1CH-A1-4	Analogue lighting controller unit, 4A, 24V
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LTIC1CH-D1-4	Digital lighting controller unit, 4A, 24V
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LTICOBUL1000CH1-24VUSTB	24VDC analog lighting controller 1 channel, UK power cord, Illumination cable, side A SM 3 way male connector, side B terminal blocks connector, 24V - 3m
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LTICOBUL1000CH1-24VEUTB	24VDC analog lighting controller 1 channel, UK power cord, Illumination cable, side A SM 3 way male connector, side B terminal blocks connector, 24V - 3m
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LTICOBUL1000CH1-24VUKTB	24VDC analog lighting controller 1 channel, UK power cord, Illumination cable, side A SM 3 way male connector, side B terminal blocks connector, 24V - 3m
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