

LTCLHP023-G

Telecentric HP illuminator, beam diameter 16 mm, green

SPECIFICATIONS

Optical specifications

Beam diameter	(mm)	16
Working distance range	(mm)	45 - 90
Light color, peak wavelength (1)		green, 520 nm

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)	3.3
Forward voltage (max) (5)	(V)	4.00
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

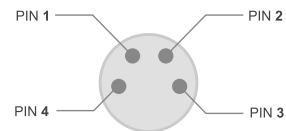


TC1MHR-TC4MHR series

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-G	Replacement LED source, green
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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-G	Replacement LED module, green
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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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