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OPTO ENGINEERING

LTCLHP080-G

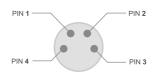
Telecentric HP illuminator, beam diameter 100 mm, green

SPECIFICATIONS

Optical specifications		
Beam diameter	(mm)	100
Working distance range	(mm)	150 - 300
Light color, peak wavelength (1)		green, 520 nm
Mechanical specifications		
Length (2)	(mm)	277.2
Outer diameter	(mm)	116
Mass	(g)	1348
Electrical specifications		
Device power ratings		
DC voltage minimum (3)	(V)	12
DC voltage maximum (3)	(V)	24
Power consumption	(VV)	< 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



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 $% \left(1\right) =\left(1\right) \left(1\right$ are for illustration purposes only.

NOTES

- ${\it 1. \ Opto \ Engineering @ \ recommends \ green \ light for \ high \ precision \ measurement \ applications}$
- 2. Nominal value, with no spacers in place
- 3. Tolerance ± 10%

Last update: 2021-06-22

- 4. Used in continuous (not pulsed) mode
- 5. At max forward current. Tolerance is $\pm 0.06 V$ 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 ${\tt Opto\ Engineering \it \& technical\ support\ department\ before\ purchasing\ a\ compatible\ product.\ Opto\ }$ $Engineering @ \ shall \ not \ be \ liable \ for \ any \ damage \ or \ malfunctioning \ caused \ by \ the \ incorrect \ selection \ of \ a$ compatible product.



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

TC23072	Bi-telecentric lens for 2/3" detectors, magnification 0.122 x, C-mount
TC13080	Bi-telecentric lens for 1/3" detectors, magnification 0.059 x, C-mount
TC12080	Bi-telecentric lens for 1/2" detectors, magnification 0.080 x, C-mount
TC23080	Bi-telecentric lens for 2/3" detectors, magnification 0.110 x, C-mount







TC1MHR-TC4MHR CORE series

Compact telecentric lenses for sensors up to 4/3"

TCCR2M080-C	Telecentric CORE lens for 1" detectors, magnification 0.160 x, C-mount
TCCR2M080-E	Telecentric CORE lens for 1" detectors, magnification 0.160 x, M42x1 FD=16
TCCR4M080-C	Telecentric CORE lens for 4/3" detectors, magnification 0.221 x, C-mount
TCCR4M080-F	Telecentric CORE lens for 4/3" detectors, magnification 0.221 x, F-mount
TCCR4M080-E	Telecentric CORE lens for 4/3" detectors, magnification 0.221 x, M42x1 FD=16



TC1MHR-TC4MHR series

Telecentric lenses for sensors up to 4/3"

TC1MHR080-C	High resolution telecentric lens for 1/1.2" detectors, magnification 0.134x, C-mount
TC2MHR080-C	High resolution telecentric lens for 1" detectors, magnification 0.160x, C-mount
TC2MHR080-F	High resolution telecentric lens for 1" detectors, magnification 0.160x, F-mount
TC2MHR080-E	High resolution telecentric lens for 1" detectors, magnification 0.160x, mount M42X1 FD=16
TC3MHR080-C	High resolution telecentric lens for 1.1" detectors, magnification 0.182x, C-mount
TC4MHR080-C	High resolution telecentric lens for 4/3" detectors, magnification 0.221x, C-mount
TC4MHR080-F	High resolution telecentric lens for 4/3" detectors, magnification 0.221x, F-mount
TC4MHR080-E	High resolution telecentric lens for 4/3" detectors, magnification 0.221x, mount M42X1 FD=16



TC16M series

Telecentric lenses for sensors up to 43.3 mm and 8k line scan cameras

TC16M080	Telecentric lens for 35 mm detectors, magnification 0.463 x, F-mount
TC16M080-Q	Telecentric lens for 35 mm detectors, magnification 0.463 x, mount M58x0.75 FD = 6.56



TC12K series

Telecentric lenses for sensors up to 62 mm and 12k line scan cameras $\,$

TC12K080 Telecentric lens for 12k and 16k line scan cameras, magnification 0.698 x, M72 x 0.75 mount



TC12M series

Telecentric lenses for sensors up to APS-H and 4k line scan cameras

TC12M080-F	High resolution telecentric lenses, magnification 0.376, WD 199.0, F mount
TC12M080-J	High resolution telecentric lenses, magnification 0.376, WD 199.1, M42x1 FD12



CMBS series

45° beam splitters

CMBS080 45° beam splitter with mount for 116 mm clamping diameter optics



CMMR080

CMMR series

45° first surface mirrors

Accessories

45° first surface mirror for 116 mm clamping diameter optics



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

	Diffuser cap for LTCLHP illuminators
LED1W-G	Replacement LED source, green



Protective windows for lenses

WI080

Protective window for 116 mm clamping diameter optics



CMHO series

Clamping mechanics for lenses

CMHO080

Clamping mechanics for TCxx072, TCxx080, LTCLHP080-X illuminators and PCxx030XS



LTSCHP series

High-performance replacement LED modules

LTSCHP1W-G	Replacement LED module, green
LTSCHP1W-GZ	Replacement LED module with diffuser, green



PS series

Power supplies

RT-SDR-120-24

24VDC DIN rail power supply



CB series

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



Precision alignment mechanics for lenses

CMTH080

Precision alignment mechanics for telecentric optics 080



LTIC series

LED lighting controllers

Analogue lighting controller unit, 4A, 24V
Digital lighting controller unit, 4A, 24V
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
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
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