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OPTO ENGINEERING

LTCLHP016-B

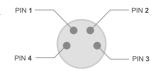
Telecentric HP illuminator, beam diameter 20 mm, blue

SPECIFICATIONS

Optical specifications		
Beam diameter	(mm)	20
Working distance range	(mm)	35 - 70
Light color, peak wavelength (1)		blue, 460 nm
Mechanical specifications		
Length (2)	(mm)	99.9
Outer diameter	(mm)	38
Mass	(g)	195
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 2
Last update: 2021-06-22		



CONNECTION



Device side - male pins

H	ro.	nı	. ı	116	2

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.

NOTES

- ${\it 1. \ Opto \ Engineering \& \ recommends \ green \ light for \ high \ precision \ measurement \ applications}$
- 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.



TCEL series

Telecentric optics with liquid lenses technology

TCEL050 Telecentric lens for 2/3" sensors with integrated liquid lens, mag. 0.50X



TC series

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

TC13016	Bi-telecentric lens for 1/3" detectors, magnification 0.290 ×, C-mount
TC12016	Bi-telecentric lens for 1/2" detectors, magnification 0.385 x, C-mount



TCLWD series

132 mm working distance telecentric lenses for sensors up to $2/3^{\prime\prime}$

TCLWD050	Long working distance telecentric lens for 2/3" detectors, WD 132.3 mm, magnification 0.50x, C-mount
TCLWD066	Long working distance telecentric lens for 2/3" detectors, WD 132.3 mm, magnification 0.66x, C-mount
TCLWD075	Long working distance telecentric lens for 2/3" detectors, WD 132.3 mm, magnification 0.75x, C-mount
TCLWD100	Long working distance telecentric lens for 2/3" detectors, WD 132.3 mm, magnification 1.00x, C-mount
TCLWD150	Long working distance telecentric lens for 2/3" detectors, WD 132.3 mm, magnification 1.50x, C-mount
TCLWD250	Long working distance telecentric lens for 2/3" detectors, WD 132.3 mm, magnification 2.50x, C-mount
TCLWD350	Long working distance telecentric lens for 2/3" detectors, WD 132.3 mm, magnification 3.50x, C-mount



TC1MHR-TC4MHR series

Telecentric lenses for sensors up to 4/3"

TC1MHR016-C	High resolution telecentric lens for 1/1.2" detectors, magnification 0.639x, C-mount
TC2MHR016-C	High resolution telecentric lens for 1" detectors, magnification 0.767x, C-mount
TC2MHR016-F	High resolution telecentric lens for 1" detectors, magnification 0.767x, F-mount
TC2MHR016-E	High resolution telecentric lens for 1" detectors, magnification 0.767x, mount M42X1 FD=16
TC3MHR016-C	High resolution telecentric lens for 1.1" detectors, magnification 0.850x, C-mount
TC4MHR016-C	High resolution telecentric lens for 4/3" detectors, magnification 1.055x, C-mount
TC4MHR016-F	High resolution telecentric lens for 4/3" detectors, magnification 1.055x, F-mount
TC4MHR016-E	High resolution telecentric lens for 4/3" detectors, magnification 1.055x, mount M42X1 FD=16



TC12M series

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

TC12M016-F High resolution telecentric lenses, magnification 1.825, WD 42.3, F mount



CMBS series

45° beam splitters

CMBS016

 45° beam splitter with mount for 37.7 mm clamping diameter optics



Accessories

Accessories and add-ons to make the most of Opto Engineering $\hskip-2.5pt^{\rm B}$ lenses.

LED1W-B	Replacement LED source, blue
	Diffuser cap for LTCLHP illuminators



CMHO series

Clamping mechanics for lenses

CMHO016 Clamping mechanics for TCxx016 lenses and LTCLHP016-X illuminators



LTSCHP series

High-performance replacement LED modules

LTSCHP1W-B Replacement LED module, blue



PS series

Power supplies



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



LTIC series

LED lighting controllers

LTIC1CH-A1-4	Analogue lighting controller unit, 4A, 24V
LTIC1CH-D1-4	Digital lighting controller unit, 4A, 24V
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
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
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