LTCLHP080-B

Telecentric HP illuminator, beam diameter 100 mm, blue

SPECIFICATIONS

Optical specifications		
3eam diameter	(mm)	100
Norking distance range	(mm)	150 - 300
ight color, peak wavelength (1)		blue, 460 nm
Nechanical specifications		
ength (2)	(mm)	277.2
Duter diameter	(mm)	116
Mass	(g)	1348
lectrical specifications		
evice power ratings		
C voltage minimum (3)	(V)	12
C voltage maximum (3)	(V)	24
ower consumption	(W)	< 2.5
lax LED forward current (4)	(mA)	350
ables		CB244P1500 included
ED power ratings		
orward voltage (typical) (5)	(V)	3.3
orward voltage (max) (5)	(V)	4.00



CONNECTION



Device side - male pins Front view

Pinout reference

cicicite	
Function	
Earth	
GND	
LED Anode	
Power supply (+12÷24 V)	

EACH

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.

Eye safety

Risk group according to CEI EN 62471:2010	Risk group 2
Last update: 2021-06-22	

NOTES

- 1. Opto $\mathsf{Engineering} \circledast$ 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 $\pm 0.06V$ 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.



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



TC CORE series

Compact bi-telecentric lenses for sensors up to 2/3"



TCCR12080
TCCR23080

 Bi-telecentric CORE lens for 1/2" detectors, magnification 0.080 x, C-mount

 Bi-telecentric CORE 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	
—	C12K series	
Telecentric le	enses for sensors up to 62 mm and 12k line scan cameras	
	Telecentric lens for 12k and 16k line scan cameras, magnification 0.698 x, M72 x 0.75 mount	
- () т	C12M series	
Telecentric le	enses 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	
4	I5° beam splitters	
CMBS080	45° beam splitter with mount for 116 mm clamping diameter optics	
A	Accessories	
A	accessories and add-ons to make the most of Opto Engineering ${}^{\!\!\mathrm{I}\!\!\mathrm{B}}$ lenses.	
	Replacement LED source, blue	
LED1W-B		
LED1W-B	Diffuser cap for LTCLHP illuminators	
	Diffuser cap for LTCLHP illuminators	
C 🕂 🚺		

WI series

0	Protective windov	vs for lenses
WI080	Protective windo	ow for 116 mm clamping diameter optics
20	CMHO series	
~	Clamping mechar	ics for lenses
CMHO080	Clamping mecha	nics for TCxx072, TCxx080, LTCLHP080-X illuminators and PCxx030XS
	LTSCHP series	
High-perfo	ormance replaceme	nt LED modules
LTSCHP1W-	·B	Replacement LED module, blue
inter and a second	PS series	
an Okura	Power supplies	
RT-SDR-120)-24	24VDC DIN rail power supply
	CB series	
	Cables	
CB244P150	0 Power cable	, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels
CB244P150	OL Power cable	, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels
	CMT series	
Precision a	alignment mechani	cs for lenses
CMTH080	Precision al	ignment mechanics for telecentric optics 080
	LTIC series	
(interest		
	LED lighting contr	ollers
LTIC1CH-A1	-4	Analogue lighting controller unit, 4A, 24V
LTIC1CH-D1	1-4	Digital lighting controller unit, 4A, 24V
LTICOBUL1	000CH1-24VUSTB	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
LTICOBUL1	000CH1-24VEUTB	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