LTCLHP056-B

Telecentric HP illuminator, beam diameter 70 mm, blue

SPECIFICATIONS

Beam diameter	(mm)	70
Working distance range	(mm)	100 - 200
Light color, peak wavelength (1)		blue, 460 nm
Mechanical specifications		
Length (2)	(mm)	210.5
Outer diameter	(mm)	80
Mass	(g)	814
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



CONNECTION PIN 1 PIN 2 0 PIN 4 PIN 3 Device side - male pins Front view Pinout reference Pin Function 1 Earth 2 GND

3

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EAC

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.

LED Anode

Power supply (+12÷24 V)

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

NOTES

- 1. Opto ${\sf Engineering} @$ 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.



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

TC13056	Bi-telecentric lens for 1/3" detectors, magnification 0.084 ×, C-mount
TC12056	Bi-telecentric lens for 1/2" detectors, magnification 0.114 x, C-mount
TC23056	Bi-telecentric lens for 2/3" detectors, magnification 0.157 x, C-mount



TC CORE series

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

TCCR12056

Bi-telecentric CORE lens for 1/2" detectors, magnification 0.114 x, C-mount

TCCR23056 Bi-telecentric CORE lens for 2/3" detectors, magnification 0.157 x, C-mount



TC1MHR-TC4MHR CORE series

Compact telecentric lenses for sensors up to 4/3"

TCCR2M056-C	Telecentric CORE lens for 1" detectors, magnification 0.228 x, C-mount
TCCR2M056-E	Telecentric CORE lens for 1" detectors, magnification 0.228 x, M42x1 FD=16
TCCR4M056-C	Telecentric CORE lens for 4/3" detectors, magnification 0.314 x, C-mount
TCCR4M056-F	Telecentric CORE lens for 4/3" detectors, magnification 0.314 x, F-mount
TCCR4M056-E	Telecentric CORE lens for 4/3" detectors, magnification 0.314 x, M42x1 FD=16

TC1MHR-TC4MHR series

Telecentric lenses for sensors up to 4/3"

TC1MHR056-C	High resolution telecentric lens for 1/1.2" detectors, magnification 0.190x, C-mount
TC2MHR056-C	High resolution telecentric lens for 1" detectors, magnification 0.228x, C-mount
TC2MHR056-F	High resolution telecentric lens for 1" detectors, magnification 0.228x, F-mount
TC2MHR056-E	High resolution telecentric lens for 1" detectors, magnification 0.228x, mount M42X1 FD=16
TC3MHR056-C	High resolution telecentric lens for 1.1" detectors, magnification 0.259x, C-mount
TC4MHR056-C	High resolution telecentric lens for 4/3" detectors, magnification 0.314x, C-mount
TC4MHR056-F	High resolution telecentric lens for 4/3" detectors, magnification 0.314x, F-mount
TC4MHR056-E	High resolution telecentric lens for 4/3" detectors, magnification 0.314x, mount M42X1 FD=16

TC16M series

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

TC16M056	Telecentric lens for 35 mm detectors, magnification 0.641 x, F-mount
TC16M056-0	Telecentric lens for 35 mm detectors, magnification 0.641 x, mount M58x0.75 FD =6.56
	TC12M series
Telecentric	lenses for sensors up to APS-H and 4k line scan cameras
TC12M056-F	High resolution telecentric lenses, magnification 0.531, WD 136.5, F mount
TC12M056-J	High resolution telecentric lenses, magnification 0.531, WD 136.6, M42x1 FD12
	CMBS series
	45° beam splitters
CMBS056	45° beam splitter with mount for 80 mm clamping diameter optics
	Accessories
	Accessories and add-ons to make the most of Opto $Engineering^{\mathbb{R}}$ lenses.
LED1W-B	Replacement LED source, blue
	Diffuser cap for LTCLHP illuminators
(CMMR series
	45° first surface mirrors
CMMR056	45° first surface mirror for 80 mm clamping diameter optics
0	WI series
Protective	windows for lenses
WI056	Protective window for 80 mm clamping diameter optics
20	CMHO series

Clamping mechanics for lenses

CMHO056	Clamping med	hanics for TCxx056 lenses and LTCLHP056-X illuminators
	LTSCHP series	
High-perfo	ormance replaceme	nt LED modules
LTSCHP1W	-В	Replacement LED module, blue
Marine Street	PS series	
	Power supplies	
RT-SDR-120	0-24	24VDC DIN rail power supply
	CB series	
	Cables	
	cabico	
CB244P150	00 Power cable	, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels
CB244P150	00L Power cable	, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels
-	LTIC series	
	LED lighting contr	ollers
	220 18.1018 conta	
LTIC1CH-A	1-4	Analogue lighting controller unit, 4A, 24V
LTIC1CH-D	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
LTICOBUL1	000CH1-24VUKTB	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