LTCLHP024-B

Telecentric HP illuminator, beam diameter 30 mm, blue

SPECIFICATIONS

Optical specifications		
Beam diameter	(mm)	30
Working distance range	(mm)	45 - 90
Light color, peak wavelength (1)		blue, 460 nm
Mechanical specifications		
Length (2)	(mm)	124.7
Outer diameter	(mm)	44
Mass	(g)	284
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



CONNECTION



Device side - male pins

Front view Pinout reference

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Pin	Function
1	Earth
2	GND
3	LED Anode
4	Power supply (+12÷24 V)

EACI

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 ${\sf Engineering} @$ 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"

TC12024 Bi-telecentric lens for 1/2" detectors, magnification 0.255 x, C-mount TC23024 Bi-telecentric lens for 2/3" detectors, magnification 0.350 x, C-mount	TC13024	Bi-telecentric lens for 1/3" detectors, magnification 0.192 ×, C-mount
TC23024 Bi-telecentric lens for 2/3" detectors, magnification 0.350 x, C-mount	TC12024	Bi-telecentric lens for 1/2" detectors, magnification 0.255 x, C-mount
	TC23024	Bi-telecentric lens for 2/3" detectors, magnification 0.350 x, C-mount



TC1MHR-TC4MHR series

Telecentric lenses for sensors up to 4/3"

TC1MHR024-C	High resolution telecentric lens for 1/1.2" detectors, magnification 0.424x, C-mount
TC2MHR024-C	High resolution telecentric lens for 1" detectors, magnification 0.508x, C-mount
TC2MHR024-F	High resolution telecentric lens for 1" detectors, magnification 0.508x, F-mount
TC2MHR024-E	High resolution telecentric lens for 1" detectors, magnification 0.508x, mount M42X1 FD=16
TC3MHR024-C	High resolution telecentric lens for 1.1" detectors, magnification 0.564x, C-mount
TC4MHR024-C	High resolution telecentric lens for 4/3" detectors, magnification 0.700x, C-mount
TC4MHR024-F	High resolution telecentric lens for 4/3" detectors, magnification 0.700x, F-mount
TC4MHR024-E	High resolution telecentric lens for 4/3" detectors, magnification 0.700x, mount M42X1 FD=16

TC16M series

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

TC16M009	Telecentric lens for 35 mm detectors, magnification 4.000 x, F-mount
TC16M009-Q	Telecentric lens for 35 mm detectors, magnification 4.000 x, mount M58x0.75 FD = 6.56
TC16M012	Telecentric lens for 35 mm detectors, magnification 3.000 x, F-mount
TC16M012-Q	Telecentric lens for 35 mm detectors, magnification 3.000 x, mount M58x0.75 FD =6.56
TC16M018	Telecentric lens for 35 mm detectors, magnification 2.000 x, F-mount
TC16M018-Q	Telecentric lens for 35 mm detectors, magnification 2.000 x, mount M58x0.75 FD =6.56

TC12M series

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

TC12M024-F	High resolution telecentric lenses, magnification 1.208, WD 66.7, F mount
TC12M024-J	High resolution telecentric lenses, magnification 1.208, WD 66.8, M42x1 FD12
A	ccessories
A	ccessories and add-ons to make the most of Opto Engineering ${}^{\!\!\!(\!$
LED1W-B	Replacement LED source, blue
	Diffuser cap for LTCLHP illuminators
20 0	MHO series
C	lamping mechanics for lenses
CMHO024	Clamping mechanics for TCxx024 lenses and LTCLHP024-X illuminators
()	TSCHP series
High-perforn	nance replacement LED modules
LTSCHP1W-B	Replacement LED module, blue
P	S series
F	ower supplies
P RT-SDR-120-2	
RT-SDR-120-2	
RT-SDR-120-2	4 24VDC DIN rail power supply B series
RT-SDR-120-2	4 24VDC DIN rail power supply
RT-SDR-120-2	4 24VDC DIN rail power supply B series
RT-SDR-120-2	4 24VDC DIN rail power supply B series ables Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels
RT-SDR-120-2 CB244P1500 CB244P1500L	4 24VDC DIN rail power supply B series ables Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels
RT-SDR-120-2 C C C C C C C C C C C C C C C C C C C	4 24VDC DIN rail power supply B series ables Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels
RT-SDR-120-2 C C C C C C C C C C C C C C C C C C C	4 24VDC DIN rail power supply B series ables Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels TIC series ED lighting controllers

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