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OPTO ENGINEERING

LTCLHP048-W

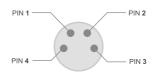
Telecentric HP illuminator, beam diameter 60 mm, white

SPECIFICATIONS

Optical specifications		
Beam diameter	(mm)	60
Working distance range	(mm)	90 - 180
Light color, peak wavelength (1)		white
Mechanical specifications		
Length (2)	(mm)	187.2
Outer diameter	(mm)	75
Mass	(g)	585
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)	2.78
Forward voltage (max) (5)	(V)	-
Max pulse current (6)	(mA)	2000
Eye safety		
		Risk group 1



CONNECTION



Device side - male pins Front view

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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 $\pm 0.06 V$ 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 ${\tt Opto\ Engineering \it \& technical\ support\ department\ before\ purchasing\ a\ compatible\ product.\ Opto\ }$ $\label{thm:engineering and be liable for any damage or malfunctioning caused by the incorrect selection of a liable for any damage or malfunctioning caused by the incorrect selection of a liable for any damage or malfunctioning caused by the incorrect selection of a liable for any damage or malfunctioning caused by the incorrect selection of a liable for any damage or malfunctioning caused by the incorrect selection of a liable for any damage or malfunctioning caused by the incorrect selection of a liable for any damage or malfunctioning caused by the incorrect selection of a liable for any damage or malfunctioning caused by the incorrect selection of a liable for any damage or malfunctioning caused by the incorrect selection of a liable for any damage or malfunctioning caused by the incorrect selection of a liable for a li$ compatible product.



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

TC13048	Bi-telecentric lens for 1/3" detectors, magnification 0.098 x, C-mount
TC12048	Bi-telecentric lens for 1/2" detectors, magnification 0.134 x, C-mount
TC23048	Bi-telecentric lens for 2/3" detectors, magnification 0.184 x, C-mount



TC CORE series

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

TCCR12048 Bi-telecentric CORE lens for 1/2" detectors, magnification 0.134 x, C-mount
TCCR23048 Bi-telecentric CORE lens for 2/3" detectors, magnification 0.184 x, C-mount



TC1MHR-TC4MHR CORE series

Compact telecentric lenses for sensors up to 4/3"

TCCR2M048-C	Telecentric CORE lens for 1" detectors, magnification 0.268 x, C-mount
TCCR2M048-E	Telecentric CORE lens for 1" detectors, magnification 0.268 x, M42x1 FD=16
TCCR4M048-C	Telecentric CORE lens for 4/3" detectors, magnification 0.369 x, C-mount
TCCR4M048-F	Telecentric CORE lens for 4/3" detectors, magnification 0.369 x, F-mount
TCCR4M048-E	Telecentric CORE lens for 4/3" detectors, magnification 0.369 x, M42x1 FD=16



TC1MHR-TC4MHR series

Telecentric lenses for sensors up to 4/3"

TC1MHR048-C	High resolution telecentric lens for 1/1.2" detectors, magnification 0.222x, C-mount
TC2MHR048-C	High resolution telecentric lens for 1" detectors, magnification 0.268x, C-mount
TC2MHR048-F	High resolution telecentric lens for 1" detectors, magnification 0.268x, F-mount
TC2MHR048-E	High resolution telecentric lens for 1" detectors, magnification 0.268x, mount M42X1 FD=16
TC3MHR048-C	High resolution telecentric lens for 1.1" detectors, magnification 0.303x, C-mount
TC4MHR048-C	High resolution telecentric lens for 4/3" detectors, magnification 0.369x, C-mount
TC4MHR048-F	High resolution telecentric lens for 4/3" detectors, magnification 0.369x, F-mount
TC4MHR048-E	High resolution telecentric lens for 4/3" detectors, magnification 0.369x, mount M42X1 FD=16 $$



TC16M series

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

TC16M048	Telecentric lens for 35 mm detectors, magnification 0.751 x, F-mount
TC16M048-Q	Telecentric lens for 35 mm detectors, magnification 0.751 x, mount M58x0.75 FD =6.56



TC12M series

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

TC12M048-F	High resolution telecentric lenses, magnification 0.635, WD 131.1, F mount
TC12M048-J	High resolution telecentric lenses, magnification 0.635, WD 131.2, M42x1 FD12



Accessories

Accessories and add-ons to make the most of Opto Engineering {}^{\! B} lenses.

LED1W-W	Replacement LED source, white
	Diffuser cap for LTCLHP illuminators



CMBS series

45° beam splitters

CMBS048	45° beam splitter with mount for 75 mm clamping diameter optics	
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CMMR series

45° first surface mirrors

CMMR048	45° first surface mirror for 75 mm clamping diameter optics



WI series

Protective windows for lenses

WI048 Protective window for 75 mm clamping diameter optics



CMHO series

Clamping mechanics for lenses

CMHO048

Clamping mechanics for TCxx048 lenses and LTCLHP048-X illuminators



LTSCHP series

High-performance replacement LED modules

LTSCHP1W-W

Replacement LED module, white



PS series

Power supplies

RT-SDR-120-24

24VDC DIN rail power supply



CB serie

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