Home | Lighting | LED Illuminators | LTCLHP series | LTCLHP036-R

OPTO ENGINEERING

LTCLHP036-R

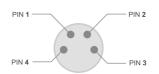
Telecentric HP illuminator, beam diameter 45 mm, red

SPECIFICATIONS

Beam diameter	(mm)	45
Working distance range	(mm)	70 - 140
Light color, peak wavelength (1)		red, 630 nm
Mechanical specifications		
Length (2)	(mm)	152.1
Outer diameter	(mm)	61
Mass	(g)	398
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)	2.4
Forward voltage (max) (5)	(V)	3.00
Max pulse current (6)	(mA)	2000
Eye safety		



CONNECTION



Device side - male pins Front view

Pinout reference	
Pin	

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

TCEL23036 Telecentric lens for 2/3" sensors with integrated liquid lens, mag. 0.243X



TC series

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

TC13036	Bi-telecentric lens for 1/3" detectors, magnification 0.133 x, C-mount
TC12036	Bi-telecentric lens for 1/2" detectors, magnification 0.177 x, C-mount



TC1MHR-TC4MHR series

Telecentric lenses for sensors up to 4/3"

TC1MHR036-C	High resolution telecentric lens for 1/1.2" detectors, magnification 0.295x, C-mount
TC2MHR036-C	High resolution telecentric lens for 1" detectors, magnification 0.353x, C-mount
TC2MHR036-F	High resolution telecentric lens for 1" detectors, magnification 0.353x, F-mount
TC2MHR036-E	High resolution telecentric lens for 1" detectors, magnification 0.353x, mount M42X1 FD=16 $$
TC3MHR036-C	High resolution telecentric lens for 1.1" detectors, magnification 0.392x, C-mount
TC4MHR036-C	High resolution telecentric lens for 4/3" detectors, magnification 0.486x, C-mount
TC4MHR036-F	High resolution telecentric lens for 4/3" detectors, magnification 0.486x, F-mount
TC4MHR036-E	High resolution telecentric lens for 4/3" detectors, magnification 0.486x, mount M42X1 FD=16



TC16M series

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

TC16M036	Telecentric lens for 35 mm detectors, magnification 1.000 x, F-mount
TC16M036-Q	Telecentric lens for 35 mm detectors, magnification 1.000 x, mount M58x0.75 FD =6.56



TC12M series

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

TC12M036-F	High resolution telecentric lenses, magnification 0.838, WD 101.9, F mount
TC12M036-J	High resolution telecentric lenses, magnification 0.838, WD 101.10, M42x1 FD12



CMBS series

45° beam splitters

CMBS036 45° beam splitter with mount for 61 mm clamping diameter optics



CMMR series

45° first surface mirrors

CMMR036

45° first surface mirror for 61 mm clamping diameter optics



Accessories

Accessories and add-ons to make the most of Opto Engineering $\!^{\!8}\!$ lenses.

	Diffuser cap for LTCLHP illuminators
LED1W-R	Replacement LED source, red



WI series

Protective windows for lenses

WI036 Protective window for 61 mm clamping diameter optics



CMHO series

Clamping mechanics for lenses

CMHO036 Clamping mechanics for TCxx036 lenses and LTCLHP036-X illuminators



LTSCHP series

High-performance replacement LED modules

LTSCHP1W-R

Replacement LED module, red



PS series

Power supplies

RT-SDR-120-24

24VDC DIN rail power supply



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