**LTCLHP036-R**  
Telecentric HP illuminator, beam diameter 45 mm, red

**SPECIFICATIONS**

**Optical specifications**
- Beam diameter (mm): 45
- Working distance range (mm): 70 - 140
- Light color, peak wavelength: red, 630 nm

**Mechanical specifications**
- Length (1): (mm) 152.1
- Outer diameter (mm): 61
- Mass (g): 398

**Electrical specifications**

**Device power ratings**
- DC voltage minimum (V): 12
- DC voltage maximum (V): 24
- Power consumption (W): < 2.5
- Max LED forward current (2) (mA): 350
- Cable: CB244P1500 included

**LED power ratings**
- Forward voltage (typical) (3) (V): 2.4
- Forward voltage (max) (3) (V): 3.00
- Max pulse current (4) (mA): 2000

**Compatible telecentric lenses**
- Compatibility: TCxx036, TCxMHR036-x, TC16M036-x

**Eye safety**
- Risk group according to CEI EN 62471:2010: Exempt

**NOTES**
1. Opto Engineering® recommends green light for high precision measurement applications.
2. Nominal value, with no spacers in place.

**COMPATIBLE PRODUCTS**

- **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
- **TC23936**  Bi-telecentric lens for 3/4” detectors, magnification 0.243 x, 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 F3=16
- **TC4MHR036-C**  High resolution telecentric lens for 1.2” detectors, magnification 0.486x, C-mount
- **TC4MHR036-F**  High resolution telecentric lens for 1.2” detectors, magnification 0.486x, F-mount
- **TC4MHR036-E**  High resolution telecentric lens for 1.2” detectors, magnification 0.486x, mount M42X1 F3=16
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<td>TC16M036-Q</td>
<td>Telecentric lens for 35 mm detectors, magnification 1.000 x, mount MS8x0.75 FO =6.56</td>
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<td>CB5036</td>
<td>45° beam splitter with mount for 61 mm clamping diameter optics</td>
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<td>CMR036</td>
<td>45° first surface mirror for 61 mm clamping diameter optics</td>
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<td>Clamping mechanics for TCox36 lenses and LTCLHP036-X illuminators</td>
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<td>LTSCHP1W-R</td>
<td>Replacement LED module, red</td>
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<td>CB244P1500</td>
<td>Power cable, side 1 MII connector straight, side 2 cable end - 2 m - type 1 labels</td>
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<td>CB244P1500L</td>
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<td>CPDP301</td>
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