**LTCLHP016-R**
Telecentric HP illuminator, beam diameter 20 mm, red

### SPECIFICATIONS

**Optical specifications**
- Beam diameter (mm): 20
- Working distance range (mm): 35 - 70
- Light color, peak wavelength: red, 630 nm

**Mechanical specifications**
- Length (1) (mm): 99.9
- Outer diameter (mm): 38
- Mass (g): 195

**Electrical specifications**

**Device power ratings**
- DC voltage minimum (V): 12
- DC voltage maximum (V): 24
- Power consumption (W): < 2.5
- Max LED forward current (mA): 350
- Cable: CB24AP1500 included

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

**Compatible telecentric lenses**
- Compatibility: TCxx016, TC4MHRO16-x, TC2MHRO16-x, TCLWD series

**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

- **TC12016** Bi-telecentric lens for 1/2" detectors, magnification 0.385 x, C-mount
- **TC23016** Bi-telecentric lens for 2/3" detectors, magnification 0.528 x, C-mount
- **TC2MHRO16-C** High resolution telecentric lens for 1" detectors, magnification 0.767x, C-mount
- **TC2MHRO16-F** High resolution telecentric lens for 1" detectors, magnification 0.767x, F-mount
- **TC2MHRO16-E** High resolution telecentric lens for 1" detectors, magnification 0.767x, mount M42X1 F0=16
- **TC4MHRO16-C** High resolution telecentric lens for 1.2" detectors, magnification 1.055x, C-mount
- **TC4MHRO16-F** High resolution telecentric lens for 1.2" detectors, magnification 1.055x, F-mount
- **TC4MHRO16-E** High resolution telecentric lens for 1.2" detectors, magnification 1.055x, mount M42X1 F0=16
<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tr>
<td>TCLWD050</td>
<td>Long working distance telecentric lens for 2/3&quot; detectors, WD 132.3 mm, magnification 0.50x, C-mount</td>
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<td>TCLWD066</td>
<td>Long working distance telecentric lens for 2/3&quot; detectors, WD 132.3 mm, magnification 0.66x, C-mount</td>
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<td>TCLWD075</td>
<td>Long working distance telecentric lens for 2/3&quot; detectors, WD 132.3 mm, magnification 0.75x, C-mount</td>
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<td>TCLWD100</td>
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<td>TCLWD150</td>
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<td>TCLWD250</td>
<td>Long working distance telecentric lens for 2/3&quot; detectors, WD 132.3 mm, magnification 2.50x, C-mount</td>
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<td>TCLWD350</td>
<td>Long working distance telecentric lens for 2/3&quot; detectors, WD 132.3 mm, magnification 3.50x, C-mount</td>
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<tr>
<td>CMB5016</td>
<td>45° beam splitter with mount for 37.7 mm clamping diameter optics</td>
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<td>CMHO016</td>
<td>Clamping mechanics for TCxx016 lenses and LTCLHP016-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 M8 connector straight, side 2 cable end - 2 m - type 1 labels</td>
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<tr>
<td>CB244P1500L</td>
<td>Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels</td>
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<td>CPDPH01</td>
<td>Diffuser cap for LTCLHP Illuminators</td>
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<tr>
<td>LED1W-R</td>
<td>Replacement LED source, red</td>
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