**PRODUCT DATASHEET**

**LTCLHP023-R**

Telecentric H P illuminator, beam diameter 16 mm, red

### SPECIFICATIONS

#### Optical specifications

- **Beam diameter** (mm): 16
- **Working distance range** (mm): 45 - 90
- **Light color, peak wavelength**: red, 630 nm

#### Mechanical specifications

- **Length (1)** (mm): 96.8
- **Outer diameter** (mm): 28
- **Mass** (g): 156

#### 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**
  - **TC2300y, TC23012, TC4M00y-x**

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

### NOTES

1. Nominal value, with no spacers in place.
2. Used in continuous (not pulsed) mode.
3. At max forward current. Tolerance is ±0.06V on forward voltage measurements.
4. At pulse width <= 10 ms, duty cycle <= 10% condition. Built-in electronics board must be bypassed (see tech info).
5. Not compatible with CPDH01

### COMPATIBLE PRODUCTS

- **TC23004**: Bi-telecentric lens for 2/3" detectors, magnification 2.000 x, C-mount
- **TC23007**: Bi-telecentric lens for 2/3" detectors, magnification 1.333 x, C-mount
- **TC23009**: Bi-telecentric lens for 2/3" detectors, magnification 1.000 x, C-mount
- **TC23012**: Bi-telecentric lens for 2/3" detectors, magnification 0.735 x, C-mount
- **TC4M004-C**: Telecentric lens for 1.2" detectors, magnification 4.000 x, C-mount
- **TC4M004-F**: Telecentric lens for 1.2" detectors, magnification 4.000 x, F-mount
- **TC4M007-C**: Telecentric lens for 1.2" detectors, magnification 2.667 x, C-mount
- **TC4M007-F**: Telecentric lens for 1.2" detectors, magnification 2.667 x, F-mount
- **TC4M009-C**: Telecentric lens for 1.2" detectors, magnification 2.000 x, C-mount
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC4M009-F</td>
<td>Telecentric lens for 1.2&quot; detectors, magnification 2.000 x, F-mount</td>
</tr>
<tr>
<td>CMHO023</td>
<td>Clamping mechanics for TCxx004, 007, 009, 012 and LTCLHP023-X</td>
</tr>
<tr>
<td>LTSCHP1W-R</td>
<td>Replacement LED module, red</td>
</tr>
<tr>
<td>CB244P1500</td>
<td>Power cable, side 1 M8 connector straight, side 2 cable end - 2 m - type 1 labels</td>
</tr>
<tr>
<td>CB244P1500L</td>
<td>Power cable, side 1 M8 connector angled, side 2 cable end - 2 m - type 1 labels</td>
</tr>
<tr>
<td>LED1W-R</td>
<td>Replacement LED source, red</td>
</tr>
</tbody>
</table>