**PRODUCT DATASHEET**

**LTCLHP023-B**
Telecentric HP illuminator, beam diameter 16 mm, blue

**SPECIFICATIONS**

**Optical specifications**
- Beam diameter (mm) 16
- Working distance range (mm) 45 - 90
- Light color, peak wavelength blue, 460 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) 3.3
- Forward voltage (max) (3) (V) 4.00
- Max pulse current (4) (mA) 2000

**Compatible telecentric lenses**
- Compatibility TC2300y, TC23012, TC4M00y-x

**Eye safety**
- Risk group according to CEI EN 62471:2010 Risk group 2

**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 CPDHP01

**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
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<th>Part Number</th>
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<tr>
<td>TC4M009-F</td>
<td>Telecentric lens for 1.2&quot; detectors, magnification 2,000 x, F-mount</td>
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<tr>
<td>CMH0023</td>
<td>Clamping mechanics for TCxxt004, 007, 009, 012 and LTCLHP023-X</td>
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<tr>
<td>LT5CHP1W-B</td>
<td>Replacement LED module, blue</td>
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<tr>
<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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<tr>
<td>LED1W-B</td>
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