The EL160.120.39 is a TFEL display designed for use in extreme operating conditions.

Lumineq’s Thin Film Electroluminescence (TFEL) displays have the widest operating temperature range of commercially available technology.

TFEL displays are ideal for use in industrial, medical, transportation, military, public safety and other demanding applications.

Lumineq Thin Film Electroluminescent Display

**Product highlights:**
- Wide temperature range from -50 to +70 °C
- Compact screen size
- Broad voltage input range from 8 to 18 VDC

**Technical specifications:**
- Technology: Thin Film Electroluminescence
- Color: TFEL-yellow
- Viewing angle: 179°, any viewing directions
- Response time: < 1 ms
- Luminance: 70 cd/m², typical areal @ 150 Hz
- Contrast: 59:1 typical @ 500 lux
- Resolution: 160 x 120 pixels
- Pixel pitch: 0.39 x 0.39 mm
- Display size: 94 x 62 x 20 mm
- Active area: 62.3 x 46.7 mm
- Weight: 65 g
- Supply voltages: 5 and 8…18 VDC
- Power: 3.0 W typical @ 150 Hz
- MTBF: > 50,000 hours
- Temperature: Operating: -50 to +70 °C, Survival: -50 to +85 °C, Storage: -60 to +105 °C
- Humidity: 93% RH, oper., IEC 68-2-3
- Altitude: 16,000 m, oper., IEC 68-2-13
- Shock: 100 g-force, 6 ms, IEC 68-2-27
- Vibration: 5 to 500 Hz, 0.02 g^2/Hz random, IEC 68-2-36, test Fdb

**General TFEL features and benefits:**
- Instant ON in cold and hot temperatures
- No need for heating and cooling
- Very long lifetime
- Extremely stable brightness – measured 100,000 hours with > 85% left of initial luminance
- TFEL display brightness, contrast, viewing angle and response time are the same across the entire operating temperature range
- Wide viewing angle > 179° with crisp and clear image
- Very fast response time, < 1 ms
- Extremely rugged and solid TFEL display structure
- Very long production life time
- Extremely wide operating temperature range

**Ordering Information:**

<table>
<thead>
<tr>
<th>Product</th>
<th>Part number</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL160.120.39</td>
<td>996-0303-00LF</td>
<td>Extended temperature range, locking connector, dimming</td>
</tr>
<tr>
<td>EL160.120.39 CC</td>
<td>996-0303-01LF</td>
<td>Extended temperature range, locking connector, dimming, conformal coating</td>
</tr>
</tbody>
</table>

Beneq is a registered trademark of Beneq Oy. ICEBrite is a trademark of Beneq Oy. Technical information in this document is subject to change without notice. Mar/2013