



The EL640.400-CB is a TFEL display 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:

- Analog dimming
- 200 rows mode

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

Ordering Information:

| Product | Part number | Features |
|-------------------|---------------|--|
| EL640.400-CB1 | 996-5072-00LF | Standard |
| EL640.400-CB1 FRA | 996-5073-00LF | Aluminum frame |
| EL640.400-CB3 FRA | 996-5078-00LF | Aluminum frame +24 VDC |
| EL640.400-CD4 FRA | 996-5085-01LF | CB1 + ICEBrite™ + aluminum frame |

Technical specifications:

| | |
|-----------------|--|
| Technology | Thin Film Electroluminescence |
| Color | Amber |
| Viewing angle | 179°, any viewing directions |
| Response time | < 1 ms |
| Luminance | 53 cd/m ² typical areal (non-ICEBrite™) 22 cd/m ² typical areal (ICEBrite™) |
| Resolution | 640 × 400 pixels |
| Pixel pitch | 0.305 × 0.305 mm |
| Weight | 400 g |
| Display size | 225 × 147 × 23.0 mm |
| Active area | 195 × 122 mm |
| Supply voltages | -CB1 and -CD4: +5 and 12 VDC -CB3: +5 and +24 VDC |
| Power | -CB1 and -CD4: 11 W, typical -CB3: 13 W, typical |
| MTBF | > 50,000 hours |
| Temperature | Operating: 0 to +55 °C Survival: -20 to +65 °C Storage: -40 to +85 °C |
| Humidity | 93% RH, oper., IEC 68-2-3 |
| Altitude | 15,000 m, oper., above sea level |
| Shock | 100 g-force, 4 ms, IEC 68-2-27 |
| Vibration | 20 to 500 Hz, 0.05 g ² /Hz random |
| Interface | EL standard, 1 or 2 bits/clock |

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