



The EL512.256-H3 is a TFEL display for use in extreme operating conditions.

Lumineq® 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:

- Operating temperature range: -25 to +65 °C
- Broad input voltage range: 11...30 VDC
- Wide screen

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
EL512.256-H3 FRA	996-5059-00LF	Aluminum frame
EL512.256-H3 FRB	996-5060-00LF	Steel frame

Technical specifications:

Technology	Thin Film Electroluminescence
Color	TFEL-yellow
Viewing angle	179°, any viewing directions
Response time	< 1 ms
Luminance	65 cd/m ² typical areal
Resolution	512 × 256 pixels
Pixel pitch	0.25 × 0.25 mm
Weight	400 g
Display size	233 × 136 × 16.5 mm
Active area	195.1 × 97.5 mm
Supply voltages	5 and 11...30 VDC
Power	6.0 W, typical 4.0 W, typical (low power mode)
MTBF	> 30,000 hours
Temperature	Operating: -25 to +65 °C Storage: -40 to +75 °C
Humidity	93% RH, oper., IEC 60068-2-78
Altitude	15 km, oper./non-oper., IEC 60068-2-13
Shock	100 g-force, 6 ms, IEC 60068-2-27
Vibration	20 to 500 Hz, 0.05 g ² /Hz random IEC 60068-2-64
Interface	EL standard, 1 or 2 bits/clock

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