

EL40S

ICEBrite™ segment TFEL display



The EL40S is a high-bright segment display for use in extreme conditions. The display exhibits exceptional clarity and legibility of content, which greatly increases process control and safety in challenging environments.

Lumineq[®] Thin Film Electroluminescent (TFEL) displays sport the widest operating temperature range available for commercially available technology and displays.

TFEL displays are ideal for outdoor instrumentation, heavy industry, defense, medical, public safety and other demanding applications.

Lumineq Thin Film Electroluminescent Display

Wide temperature range from -60 to +85 °C Sunlight readability: 300 cd/m²	Technology Color	Thin Film Electroluminescence
	Calan	······ Licculolariiii Cocciicc
	Color	TFEL-yellow
	Viewing angle	179°, any viewing directions
High contrast	Response time	< 1 ms
Extremely rugged	Luminance	300 cd/m ²
Overheating protection	Contrast	180:1 typical at 500 lux
		16:1 typical at 10,000 lux
General TFEL features and benefits:		4:1 typical at 50,000 lux
	Segments	4 × 7 segments with dots
Instant ON in cold and hot temperatures	Symbols	Battery, +, - , °F, °C, mV, : (colon)
·	Weight	150 g
No need for heating and cooling Very long lifetime	Display size	138 × 56 × 21 mm (with mounting ears)
Extremely stable brightness – measured 100,000 hours	Active area	110 × 26 mm
with > 85% left of initial luminance	Digit height	25.4 mm (1")
TFEL display brightness, contrast, viewing angle and	Supply voltage	12 VDC
response time are the same across the entire operating	Power	< 6 W @ 300 cd/m ²
temperature range	MTBF	100,000 hours
Wide viewing angle > 179° with crisp and clear image	Temperature	Operating: -60 to +85 °C
Very fast response time, < 1 ms		Storage: -60 to +85 °C
Extremely rugged and solid TFEL display structure	Humidity	93% RH, oper. @+40 °C, IEC 60068-2-78
Very long production lifetime	Altitude	18,000 m, oper., IEC 60068-2-13
Wide operating temperature range	Shock	100 g-force, 6 ms, <u>I</u> EC 60068-2-27, test Ea.
	Vibration	5 to 500 Hz, 0.20 g ² /Hz random
		IEC 60068-2-64, test Fh.
dering Information:	Interface	SPI
oduct Part number Features	Options	Conformal coating

Beneq and Lumineq are registered trademarks of Beneq Oy. ICEBrite is a trademark of Beneq Oy. Technical information in this document is subject to change without notice. Jan/2017.

ICEBrite, SPI Interface

Conformal coating

EL40S CC

EL00010801