

Safe Load Indicator (SLI) for EOT Cranes

The Safe Load Indicator (SLI) for EOT Cranes is a comprehensive safety system designed to monitor load conditions and prevent overloading during crane operations. It integrates multiple components that work together to ensure safe and efficient lifting.



Product Roles & Technical Specifications:

1. Display (LMI 01): Serves as the main interface, providing real-time load indication with overload alerts and relay cut-off signals.
Specification: 12/24 VDC, IP65 protection, high-visibility digital display with relay output.
2. Power Supply: Ensures stable and regulated power for seamless functioning of the system.
Specification: Input 110–240 VAC / Output 12 VDC, industrial-grade SMPS with surge protection.
3. Rope Clamp with Load Cell: Measures actual load by sensing rope tension and converting it into electrical signals.
Specification: Suitable for rope dia 8–22 mm, accuracy $\pm 2\%$ FS, IP65 rated load sensing unit.
4. Tension Meter with Load Cell (Optional): Provides precise rope tension measurement for enhanced load monitoring and safety.
Specification: Suitable for rope dia 22–281 mm, accuracy $\pm 1\%$ FS, IP65 rated load sensing unit.
5. LED Board (Jumbo Display): Displays load data clearly for long-distance visibility to ground staff.
Specification: High-brightness LED, visibility up to 50–100 meters, weatherproof IP65 enclosure.
6. Buzzer: Delivers instant audio alerts during overload or unsafe conditions.
Specification: 12 VDC operated, sound level 80–90 dB, continuous/alert mode operation.

Together, these components ensure accurate load monitoring, enhance operator awareness, improve safety, and protect both equipment and personnel.

Please note that in one SLI unit, either a Rope Clamp with Load Cell or a Tension Meter with Load Cell is installed, depending on the crane's configuration and working principle. Therefore, we supply only one of these options

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