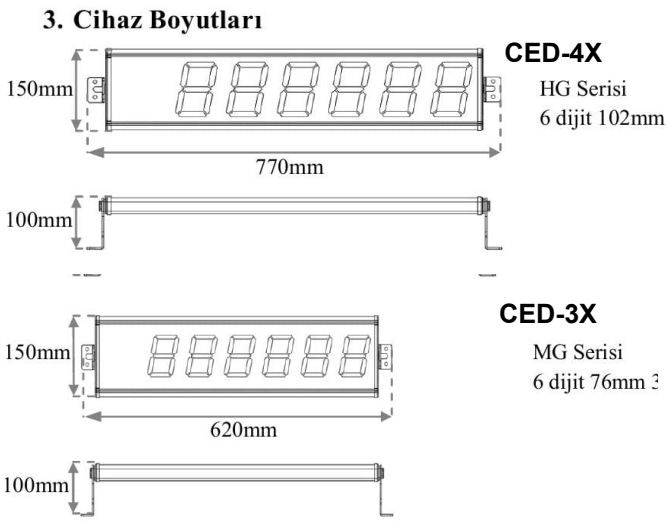
CED

COLM EXTERNAL DISPLAY FOR LIFTING SYSTEMS





CED - 4X - L - 2 - 1 - M - 01 - 01

Product family	Size (inch / mm)	Control unit	Relay nu	Loadcell nu	Comm	Wireless comm	Optional input
CED	3" - 620x150x100	Non	Non	Non	M- Modbus	01 - Non(cable)	J-Gyroscope
External Display	4" - 770x150x100	**L**	**2**	**1**	I- 4-20 mA	02 - Bluetooth	W-Wind sensor
			3	**2**	V-0-10 V	03 - Wi-fi	
			4				

DESCRIPTION

- Digital load limiter/transmitter for lifting systems.
- IP54 external display enclosure.
- 3X: 620 × 150 × 100 mm; 4X: 770 × 150 × 100 mm.
- Set-up and calibration via keyboard.
  6-digit LED display; 3 or 4 inch character height.
- Connecting multiple units with load limiting and summing function.
- Alarm signal following load cell connection failure.
- LED indicators showing the status of the relay outputs.
- 5 key keyboard.

CED SPECIFICATIONS

- Load limitation detected by the intervention of alarm and pre-alarm thresholds.
- Load limitation (single and sum) for systems with up to 2 weighing points, by connecting multiple units.
- Connecting multiple units with load limiting and summing function.
- Availability of lifting operation counters.

INPUTS/OUTPUTS AND COMMUNICATION

- RS485/RS232 serial ports for communication via ASCII continuous one way transmission.
- 2 digital inputs: status reading via serial communication protocols.
- CED
  - 3 exchange relay outputs.
  - 2 load cell inputs.
  - Integrated RF interface for connecting multiple units (option on request).
- CED
  - 4 relay outputs: three exchange relay outputs + one safety exchange relay output with guided contacts.
  - 2 independent load cell inputs.

CED SPECIFICATIONS

- Dual channel input system for double bridge load cells, in accordance with category 2 as per EN13849-1, PL d (comparable to SIL2 level, EN62061 standard).
- Load limitation via safety relay with guided contacts, monitored in real time.
- Independent general alarm relay.
- 2 relays for general threshold intervention (e.g. pre-alarm/ discharge system).

CED

- 4 relay outputs: three exchange relay outputs + one safety exchange relay output with guided contacts.
- 2 independent load cell inputs.

Rev. 0.0

CED

COLM OVERLOAD EXTERNAL DISPLAY FOR LIFTING SYSTEMS

MAIN FUNCTIONS

Connections to:
- PC/PLC via RS485/RS232;
- remote display via RS485/RS232;
- up to 2 load cells in parallel by junction box;
- other units for summing function via RS485 or RF (option on request).

• Continuous load cell connection integrity check.
• Digital filter to reduce the effects of weight oscillation.
• Theoretical calibration (via keyboard) and real calibration (with sample weights).
• Tare weight zero setting.
• Automatic zero setting at power-on.
• Gross weight zero tracking.

CERTIFICATIONS

CE certification for European Union countries.

PL d Category 2 as per EN13849-1, PL d (comparable to SIL2 level, EN62061 standard) (LCD3PL)

Pb free

TECHNICAL FEATURES

Power supply and consumption	24–48 VDC/VAC; 6 VA 24–250 VAC; 6 VA
Number of load cells • Load cells supply	up to 2 (350 Ω) • 4 VDC
Linearity	<0.01% full scale
Thermal drift	<0.002% full scale/°C
A/D Converter	24 bit
Measure range	±3.9 mV
Conversion per second	3
Decimals • Display increments	0÷4 • x1 x2 x5 x10 x20 x50
Digital filter	0.25÷3 Hz
Relay outputs	CED. Standard : 2 different programmable control relays CED Option: 4 different programmable control relays contacts - 30 VDC/250 VAC; 2 A
Optoisolated digital inputs	n. 2
Serial ports	RS485, RS232
Baud rate	1200, 2400, 9600, 19200, 38400, 57600, 115200 (bit/s)
Humidity (condensate free)	85%
Storage temperature	-30 °C +60 °C
Working temperature	-20 °C +55 °C

OPTIONS ON REQUEST



DESCRIPTION
IP67 CASTL series polycarbonate box; dimensions: 170x140x95 mm (four fixing holes Ø4 mm; centre distance: 152x122 mm).
- transparent cover - transparent cover; 4+2 M16x1.5 cable glands - plugs
- transparent cover; 4+2 PVC end-fittings for sheath Only for CLB Integrated RF (radio) interface for connecting multiple units RF frequency 2.4 GHz (128 channels) Average range of coverage 100 metres

Rev. 0.0

The Company reser ves the right to make changes to the technical data, drawings and images without notice.