

CSLL-3

DIGITAL LOAD LIMITER/INDICATOR FOR LIFTING SYSTEMS

Load Cell Central

1-800-LOADCEL



		CODE
1 instrument	load limiters in single weighing systems	CSLL-3
2 instruments	load limiters in multi-weighing systems	CSLL-3 A+B
3 instruments	load limiters in multi-weighing systems	CSLL-3 A+B+C
4 instruments	load limiters in multi-weighing systems	CSLL-3 A+B+C+D

DESCRIPTION

- Digital load limiter/indicator for lifting systems.
- Mounting on Omega/DIN rail for back panel or junction box.
- Dimensions: 140x93x65 mm (terminal blocks included).
- Set-up and calibration via keyboard and LCD display (two-line by 16-digit, 5 mm 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.
- 4-key keyboard.

CSLL-3 SPECIFICATIONS

- Load limitation detected by the intervention of alarm and pre-alarm thresholds.
- Load limitation (single and sum) for systems with up to 4 weighing points, by connecting multiple units.
- Connecting multiple units with load limiting and summing function.

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.

- 3 relay outputs: one NO + two exchange relay outputs.
- 1 load cell dedicated input.

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MAIN FUNCTIONS

- Connections to:
 - PC/PLC via RS485/RS232;
 - remote display via RS485/RS232;
 - up to 8 load cells in parallel by junction box;
 - other units for summing function via RS485.
 - 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



Category 2 as per EN 13849-1:2008, PL d (corresponding to SIL 2 level, EN 62061 standard)

TECHNICAL FEATURES

Power supply and consumption	24÷48 VDC/VAC; 6 VA
Number of load cells • Load cells supply	up to 8 (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/s
Decimals • Display increments	0÷4 • x1 x2 x5 x10 x20 x50
Digital filter	0.25÷3 Hz
Relay outputs	CSLL-3: n. 3, 1 NO + 2 exchange relay outputs - 18÷50 VDC/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	-20 °C +60 °C
Working temperature	-10 °C +50 °C

OPTIONS ON REQUEST

DESCRIPTION	CODE
 IP67 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	CASTL CASTLPG9 CASTLGUA

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