



RCI-8510 Rated Capacity Limiter & Crane Controller

Cost-effective solutions / Worldwide support / Quality and innovation **ROBWAY**

The Robway RCI-8510 introduces a graphical colour display that allows the operator to view critical operational parameters at a glance.

- ▶ Supervisor-settable site restrictions
- ▶ Dedicated limiter outputs for general motion-cut and hoist-up limit
- ▶ Configurable digital I/O for proximity switches, limiter outputs, etc.
- ▶ Dedicated external warning light bar interface
- ▶ Complete system diagnostics allows quick system and J1939 fault-finding remote telematics interface
- ▶ Full data logging allowing incident replay
- ▶ Crane design working period data log in accordance with AS2550.1:2011
- ▶ Metric or imperial unit selection



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Internationally Recognised Certification

The RCI-8510 Controller System was designed to satisfy most global Rated Capacity Limiter and control requirements in accordance with ISO 61508, functional safety of electrical electronic programmable safety-related systems.

A full range of sensors for both load moment and hoist rope tension load monitoring is available. The RCI-8510 also has mathematical modelling capabilities that can utilise manufacturer's dimensional, mass and CG data for load calculations.



RCI-8510 General Specifications

Display Size	4 inch and 7 inch screen options 4 inch 480 x 272 7 inch 800 x 480
ATB	Two dedicated input channels
RS232	Configuration upload / download Calibration upload / download Data log download
SD Card	Configuration upload / download Calibration upload / download Data log download
CAN Bus	CAN 2.0 B, SAE J1939 and CANopen
RS485	Telematics interface
ISO61508	SIL 2 capable <i>(dependent upon system design)</i>
EN954	CAT 3 capable <i>(dependent upon system design)</i>
CE Compliant	Yes
Standards Compliance	EN13000:2014, AS1418.5:2013 ISO 9001:2008, IEC 61508, EN13849 RoHS DIRECTIVE 2002/95/EC Machinery DIRECTIVE 2006/42/EC
Supply Voltage	9-36 Vdc Reverse voltage protection Controller, crowbar overvoltage protection Display, temporary overvoltage protection
Operating Temperature	-40°C to 70°C -40°F to 158°F
Environmental	Display IP65, Controller IP66
Humidity	0 to 99% non-condensing
Shock	IEC 60068-2-27, half sinus, 1000g (1ms)
Vibration	IEC 60068-2-6, 5-500 Hz, 20g, 10mm
Housing Material	ASA+PC plastic material Heat and UV-resistant
EMC RF Emissions	EN61000-6-2 CISPR22, C-Tick

Factory Default Standard Inputs & Outputs

Analog Sensor Inputs	Software programmable, 4 differential or 8 single-ended Full bridge, 4-20 mA, 0-5 Vdc, 0-15 Vdc
Digital Outputs	10 Factory-configured for power or earth switching 100 mA max current
Digital Inputs	25 Optical isolation Factory-configured for power or earth switching

Features

- ▲ Robway is a quality certified company to ISO 9001:2008.
- ▲ ISO61508 and EN13849 compliant
- ▲ USB port for upload and download of configuration, load charts, calibrations and data log
- ▲ Outrigger monitoring
- ▲ Full J1939 diagnostics
- ▲ USB configuration uploads
- ▲ USB data log downloads
- ▲ Variety of crane applications
- ▲ Hoist rope tension or load-moment based
- ▲ Load monitoring
- ▲ Graphical colour LCD operator console
- ▲ Multiple limiter outputs and CAN bus controls
- ▲ Extensive load chart memory
- ▲ Simple calibration via Integral LCD and keypad
- ▲ Rugged design resistant to humidity & vibration
- ▲ Gimbal mount or flush-mount display