

RCI Lite Rated Capacity Indicator

Suitable for

- Excavators



RCI Lite is one of a suite of safety products from XWatch that has been designed to couple clarity and simplicity with accuracy and reliability while complying with all the current industry standards. RCI Lite can be configured to work on any type of hydraulic excavator. RCI Lite provides overload protection with optional motion control to prevent unsafe operation, and allows the machine to be used to its full capacity. RCI Lite is the economical solution for general civil lifting activities.

RCI Lite Rated Capacity Indicator

Standard systems includes an external alarm. Options include a Supervisor key switch, external warning light, internal alarm and Telematics. When the RCI is not required, RCI Lite can function as a basic digging system allowing the accurate excavation of level trenches and basements.

With the exception of periodic inspection, RCI Lite is maintenance free. Where added functionality is required Xwatch can provide XW2 which adds proportionally controlled height limiting to the RCI, and XW5 which adds both height and slew limiting.

Base system

Major components carry a **five year** guarantee excluding mis-use and physical damage.

IO Controller

Solid state, fully potted IP67, mounted in pump or engine bay. 4 x analogue inputs. 8 x digital inputs. 8 x output. All with full electrical protection and diagnostics, 2 x CAN bus. 11 - 30VDC. Manual key override for motion control valves. <15mS program cycle time with all features enabled.

Angle sensors

Compact solid state 3 axis accelerometer. ABS, IP67. CAN J1939. Nylon mounting plate. Can be mounted anywhere on the front end equipment in any orientation. Up to three articulations can be monitored with the addition of chassis attitude

Display

Solid state, IP65, RAM mount to window or dash. 2.8" backlit colour LCD. 7 x backlit, tactile keys. 1 x CAN bus. 11 - 30VDC

Pressure Sensors

400 bar 4-20mA. Stainless steel, IP67. Connected to both piston and annular sides of the boom lift cylinders.

Cabling

Industry standard multi-core screened with M12 connectors.

Options

Access key switch	Prevents/allows setting changes
Track lock	Inhibits travel when in overload
Offset boom sensor	Monitors offset boom angle (single proximity switch detection also available)
Reeling drum	Monitors telescopic arm extension (single proximity switch detection also available)
Platform sensor	Monitors chassis pitch and roll angles
Auto duty switching	Proximity switch detection for up to four lifting duties
Telemetry	GSM connected. Provides real-time machine monitoring plus data logging