

Load Moment Indicator System

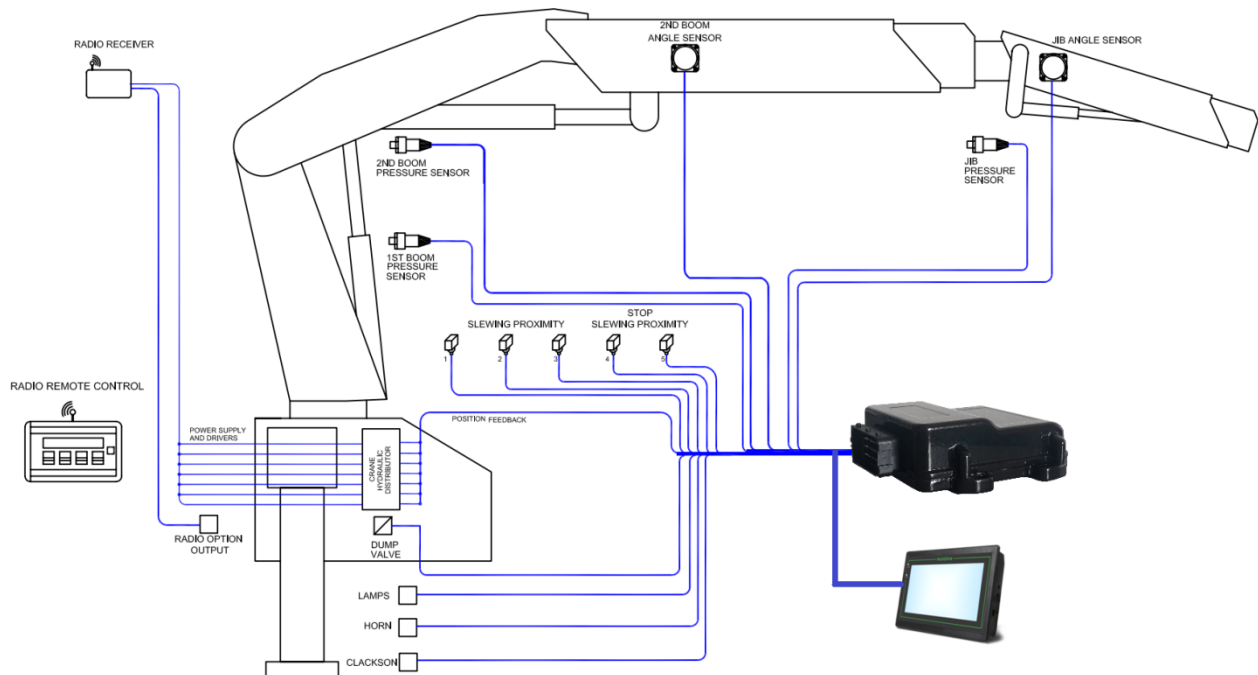
The system is a load momentum limiter for truck cranes based on the pressure readings within the lifting cylinders which are compared in real time with the thresholds representing the maximum lifting capacity of the crane. Besides the basic features, the **black box (event logger)** feature records the force of the cylinders as a date and a percentage exceeding the specified limit.

Black box records can be transferred to the computer as an **Excel** file. The system meets the **EN12999** safety standard for crane trucks, and fulfills the task of electronic limiter. **In the case of motion limiter, allowable and unauthorized movements can be displayed on the screen.**

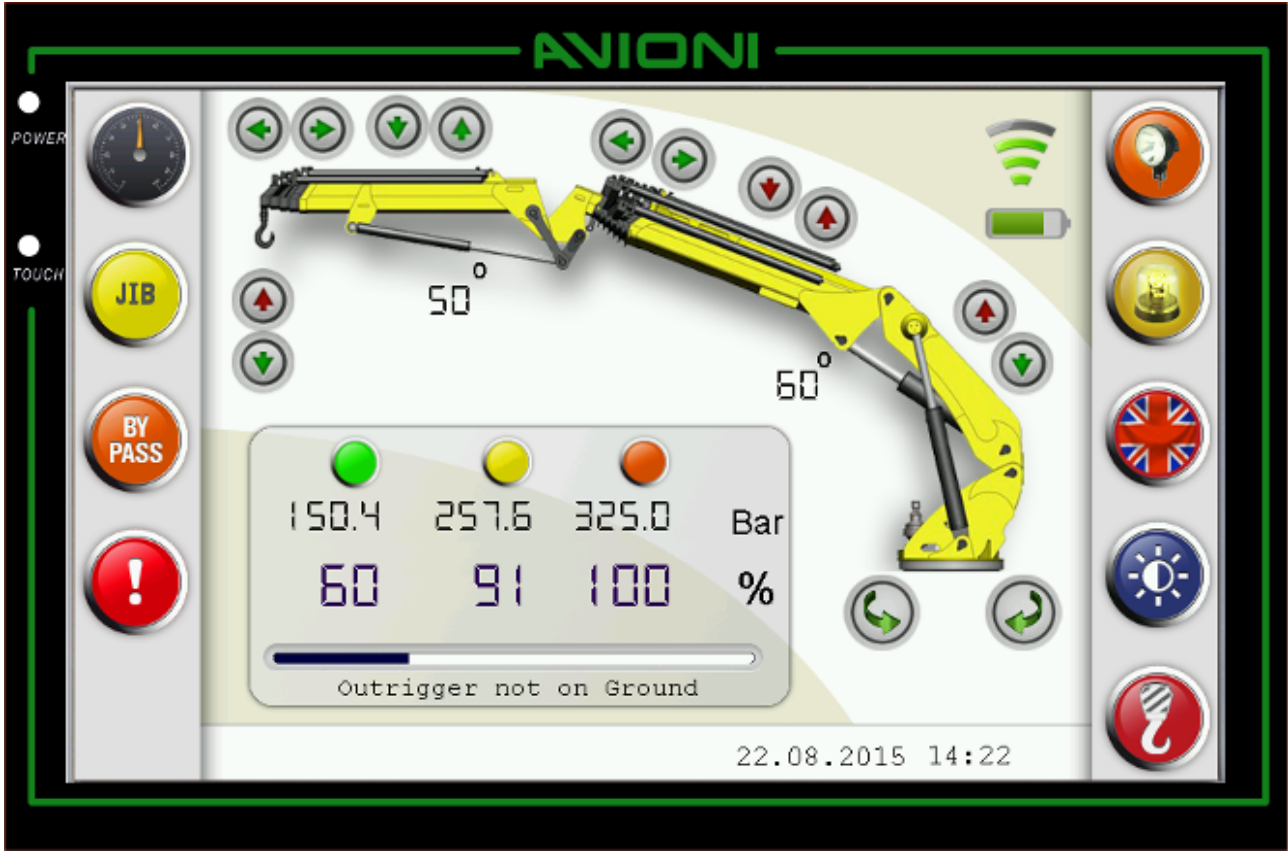
Working Principle

The momentum limiter is based on real time scanning of the pressure levels detected, by means of transducers, in the lifting cylinders of the crane. The pressure transducer of the primary cylinder is always present and the same goes for the transducer of the jib cylinder, if the jib has been assembled on the crane; whereas the transducer for the cylinder of the secondary arm is used only when it is necessary to further protect the structure of the crane.

The measured pressure indicates the "momentum" of the crane (the force which tends to load and overturn the crane), such a force should never exceed a certain limit otherwise the crane could be pulled over or be damaged. The system continuously checks that such limit is not reached; when reaching the maximum limit the crane will be stopped and one can only perform movements which reduce the capsizing force. The highest percentage of crane use, amongst the detected ones, is shown by three LEDs to be found on the screen which show whether continuing use is safe, or whether it is above 90% or if it has reached 100%.



7" Touchscreen IP65 Display



CPU: 32bit 720MHz ARM Cortex A8

RAM: 512 Megabte (DDR-III)

Flash Memory: 4 Gigabyte (EMMC)

Resolution: 800x480 piksel

Screen: 7" resistive touchscreen

- USB Port: x2
- SD Card: Yes
- Serial port: (RS232, RS485, RS422)
- CAN-Bus: 2.0B
- USB camera and IP camera supported
- Printer & Scanner supported
- Power Supply: 12V and 24V
- CE : EN61000-6-2:2005 and EN61000-6-4:2007
- FCC sertifikası: FCC Class A



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