

Goodwin International Ltd, Great Britain, uses Crane Safety Monitor- CSM with Angle Measurement Unit – AMU and force transmitter LKVE in the production of heavy general engineering components and valves on a 30 tonne crane.

Date: 2021-11-04

Product: Crane Safety Monitor – CSM, Angle Measurement Unit – AMU, LKVE and Large Format Display

Customer: Goodwin International Ltd, Great Britain

Background and solution:

The customer approached us with a problem, they required a higher level of safety on their production crane, they needed to protect against side pulling, overloading, and required load monitoring. The CSM is the perfect product for this application and can provide the customer with the protection and information they need.

The CSM control panel has been mounted on to the crab unit in an accessible location via a scissor lift so the customer can easily access the CSM to collect the vital safety information it has recorded.



Picture: Crane Safety Monitor – CSM, installation

The 30-ton crane that the CSM, AMU, LKVE and Large Format Display is installed, comprises four falls of rope at a diameter of 20 mm. The Angle Measurement Unit – AMU and the LKVE force transmitter are installed on to the dead rope, just below the dead-end anchor. There was no need to change the position of the top limit switch, as there was ample room for installation of the equipment.



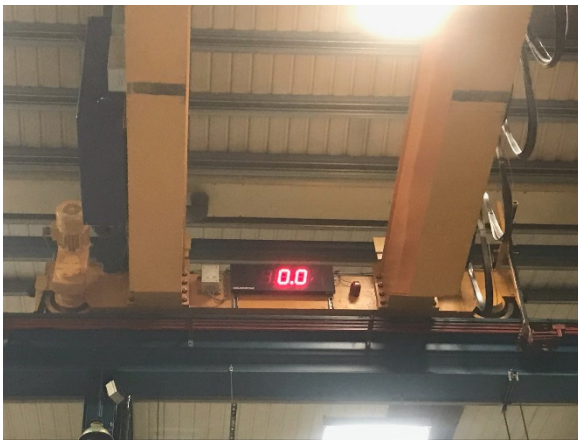
Picture: AMU sensor and LKVE force transmitter. Picture: 30-ton crane.

The AMU and LKVE are wired back to the CSM panel via screened cable to protect against any interference, the CSM takes the live feed information from the measurement units and gives us time in use, load time, overload time, hoist count, load monitoring and angle protection.

The control relays in the CSM are wired back to the crane control panel and integrated into the hoisting control, to stop lowering in the event of slack rope, and to stop hoisting in the event of an overload or side pull greater than 5 degrees.

A large format display and a red beacon/sounder have been installed on to the end carriage of the crane, here information is fed back to the operator.

The large format display gives the operator the exact load on the crane hook. The beacon/sounder indicates to the operator, when SWL has been reached and/or when the AMU reads a side pull greater than 5 degrees.



Pictures: Large Format Display and beacon/sounder

On completion of the installation the system was commissioned and tested with a 25-ton known load, the crane and Crane Safety Monitor were left in full working order.

For more info, please contact Mr. Stefan Dahlman



Stefan Dahlman
International sales representative



Direct: +46(0)8 540 839 13
Mobile/ WhatsApp: +46 70 710 5833
Email: stefan.dahlman@gigasense.se
Skype: stefan.dahlman.gigasense