

# COMPONENTS

## HoistSense+

HoistSense is an advanced electronic system that constantly keeps track of usage, load and critical incidents; while using this information to the advantage of the user to further increase the efficiency and decrease the downtime of the hoist.

### Stored Parameters:

- Remaining safe working period (SWP) of the hoist
- Current load on the hook
- Total number of overload incidents
- Total running time of the hoisting motor
- Mean load
- Load spectrum ( Light, Medium, Heavy, Very Heavy )
- Total number of starts
- Time to next maintenance ( Depending on the usage – Dynamic )
- Duty



### Real-Time Monitoring

- Permanent SWP ( Safe Working Period ) calculation
- Up-to-date information about the remaining duration of service
- Comply with the regulations

### Increased Efficiency

- With ultra speed function enabled, HoistSense increases speed to 150% nominal speed on all motions when the load is below 15% of the SWL ( Safe Working Load )



### Safe Working

- Continuous overload protection with precisely calculated strain gauge load measuring system

### Weighing Display

- Real-time display of the loads via strain gauge sensor

### Service Optimization

- Available alarms for preventive maintenance periods
- Tracking of past maintenances

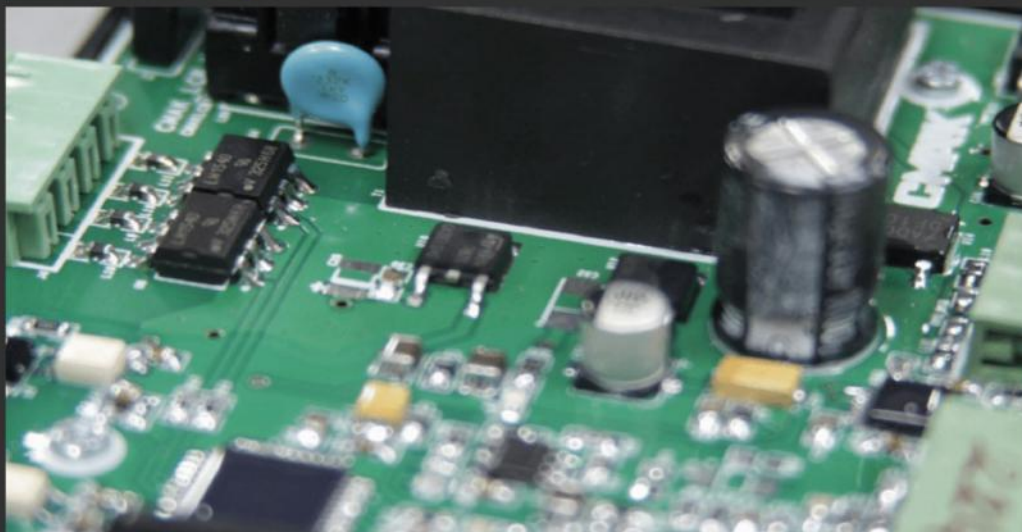
### Functions

- Weighing and Informative Display
- Overload limiter
- Faster speeds depending on the load
- Dynamic service timer



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## HoistSense+



### Industry 4.0 HoistSense+

- Industry 4.0 application with HoistSense+ makes the whole crane transform from a regular one to an automatic crane supervisor
- HoistSense+ can integrate into a generic industrial wifi or mobile data router and connect to the internet to start flow of information securely to CMAK cloud servers to monitor and create reports/alerts for the users in real-time

### Informative Display

- With its display mounted on hoist, the HoistSense informs the operator and maintenance crew for critical information ( Total runtime, Number of Overloads, Next Service Hour – Dynamic, Remaining SWP%, Number of Starts, Average Load )
- Comply with the regulations

### Easy to Use

- HoistSense does not add more buttons or require constantly checking the pushbutton pendant, as the system will start displaying the load on the large display attached to the hoist – easily visible – immediately after the operator starts commanding the crane and the stored information will be shown on the large display after the hoists stays idle for a short period of time

### Stand-alone Application

- Can be integrated to any of your hoists



## CMAK HoistSense+

A Game Changer in Crane Monitoring

### Business Intelligence

How much of an experience and knowledge requires for crane supervision and monitoring?

For HoistSense+ , it is multiple decades of knowledge , which will give you the best insight about what is going on with your crane. With using multiple advanced sensors and historical data, it can predict the problems you might face, thus preemptively acting and advising you to take a proactive approach , letting you avoid or get rid of the electrical, mechanical and operational problems all together

### Reporting

HoistSense+ is a unique crane supervisor that works everyday for you with minimum cost. It reports back to you instantly and with neat graphical reports every month, will let you know about how your crane is operating with performance values

### Monitoring

HoistSense+ is monitoring the current conditions of the crane including design working period calculations, load sharing, overloads, slackrope, faster speeds depending on the weight of the load, brake wear-tear, electrical and mechanical stability and much more, with the help of advanced sensors