



# Condition Monitoring and Predictive Maintenance

SOLUTIONS FOR INTELLIGENT PORTS

**SICK**  
Sensor Intelligence.

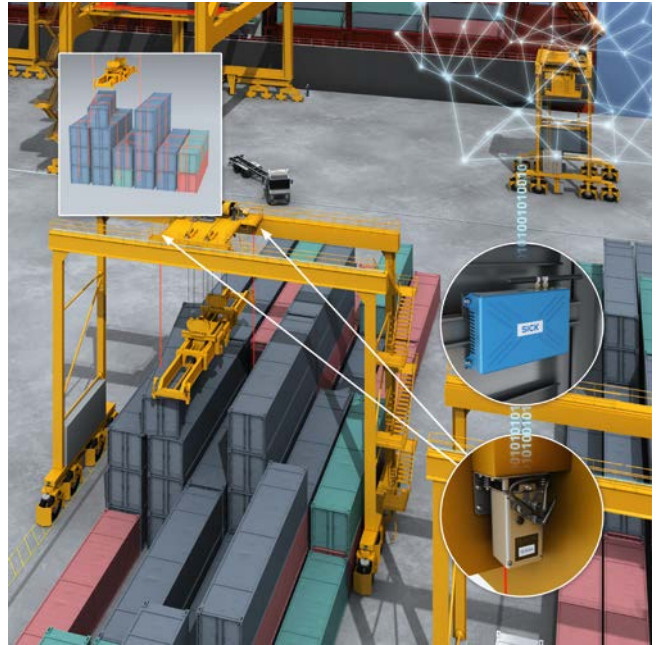
Condition Monitoring and Predictive Maintenance can shorten ship idle times as well as optimize the handling of containers in the yard and the processing of rail and road transport. The Monitoring Box visualizes ambient conditions in ports and irregularities in port processes, in real time and with historical data. Thanks to the notification function, the user does not miss any events. Data analyses can be used to optimise settings or processes, and prediction models help further reduce unplanned downtimes in the quay area or yard area. The Prediction Box not only increases the availability of sensors and port facilities, but also reduces ship idle times.



## SICK MONITORING BOX AND SICK PREDICTION BOX

Demand-driven services thanks to the Monitoring and Prediction Box. Ambient conditions in port facilities and irregularities in port processes can be visualized. For example, port operators can display environmental influences acting on sensors in real time, and track them using historical data. Thanks to the notification function, the user does not miss any events. Data analyses can be used to optimize settings or processes, and prediction models help further reduce unplanned downtimes. This not only increases the availability of sensors and port facilities, but also reduces the berthing time of ships.

- Display environmental influences acting on sensors, such as dirt or excessive positive or negative temperatures
- Visualize ambient conditions in ports and irregularities in port processes
- Track various influences on sensors via alarms or historical data
- Consider weather conditions on sensors
- Find out with Predictive Services if and when failures will accrue
- Simple plug and play solution, also retrofittable



- + Transparent insights into automated processes for shorter ship idle times and optimized handling of containers in the yard
- + Needs-based services rather than inefficient maintenance cycles
- + Increases the availability of sensors and port facilities

- + Data analyses for optimizing settings or processes
- + Predictive services help prevent unwanted downtimes in the quay area or yard area
- + Reduces ship idle times

More information → [www.sick.com/blog-msc-valencia-condition-monitoring](http://www.sick.com/blog-msc-valencia-condition-monitoring)