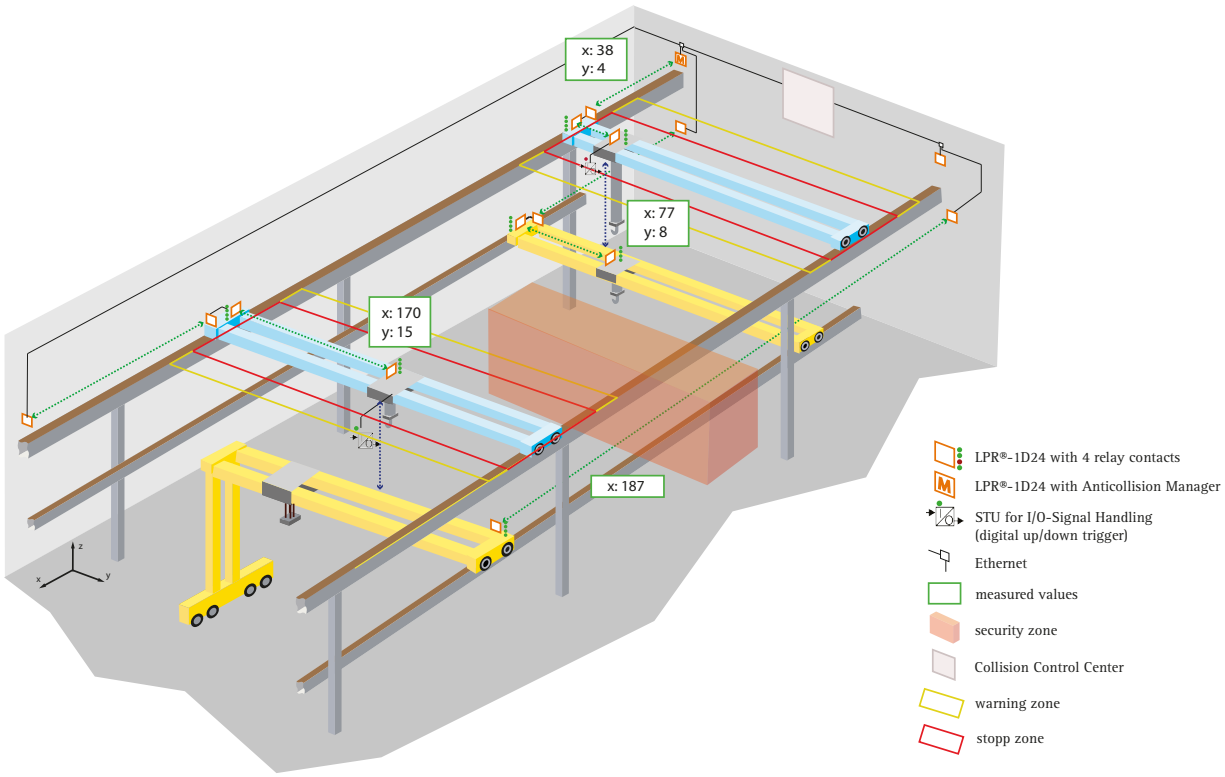
# Crane-AntiColl Software CCC and LPR®-1D24

Data Sheet




## Crane-AntiColl Software CCC and LPR®-1D24

## Collision Avoidance of Cranes at Different Heights

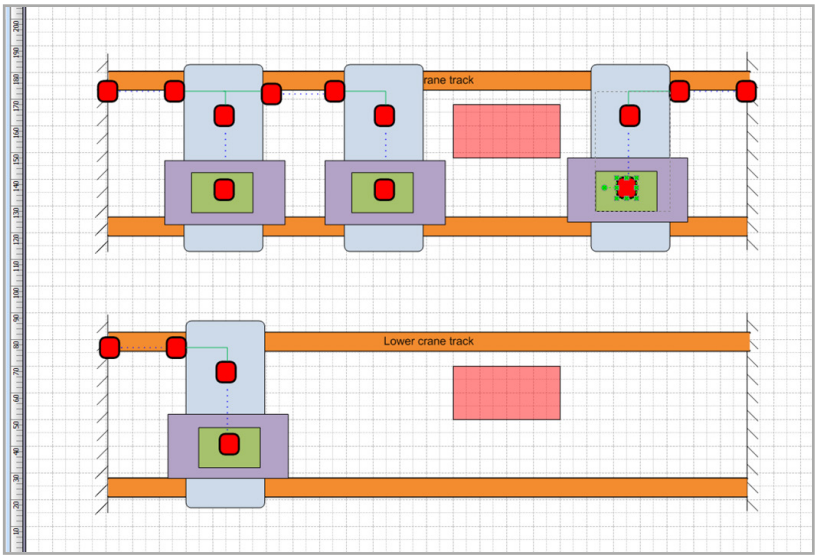
- Reliable collision avoidance for cranes at different heights
- Laterally entering cranes as well as transfer cars can also be detected
- Flexible configuration for typical crane applications
- No central control unit (PLC) required
- Crane-to-crane communication
- Easy access to the CCC via a web user interface
- WiFi-independent

The Collision Control Center (CCC) from Symeo is a modular assistance and management system developed especially for preventing collisions between cranes and objects within the cranes operation zone.

The software makes it easy to configure triggers for warning and stop signals. The system is capable of tracking cranes with various dimensions, even at different heights. As a standard, up to 15 cranes per level can be configured. Cranes can also be prevented from crossing over pre-defined safety zones. All crane movements are monitored in real-time. Crane hook signals of cranes at the upper level can be detected by using the Symeo Telemetry Unit STU.

The positions and speeds of the cranes and trolleys are measured with the highly-reliable wireless system LPR®-1D24. Dynamical distance measurement values are displayed in the software interface. This data is transmitted via the integrated LPR® wireless data link or via Ethernet. Symeo´s Collision Control Center visualizes and monitors the position of all participating objects in real-time. Separated from the CCC, the LPR® -1D24 wall stations calculate the single crane positions. If the distance between objects falls below pre-defined thresholds, the LPR®-1D24 wall station send a collision warning signal to the Symeo unit on the affected crane, which opens the respective (isolated) relay contacts.

As an option, the measurement data can be visualized and logged by a central Symeo server. The Symeo collision warning system does not require or disturb a WiFi connection.




*Symbolic image / Configuration over standard tools*

The Collision Control Center (CCC) allows the startup configuration in any browser without installing a special software.

- Up to 15 cranes per level can be parameterized in the standard solution.
- Up to 10 security zones on the floor can be defined by their coordinates in order to restrict crossings or transfer areas of the cranes.

Individual cranes, which are out of electricity because of operating service, can be temporarily deactivated in the Collision Control Center in order to maintain the overall functionality.

| Technical Data: Crane-AntiColl Software CCC | |
|---|---|
| Number of cranes and trolleys | as a standard up to 15 per level |
| **Number of virtual security zones** | up to 10 |
| Number of relays addressed per LPR® unit | 4 |
| Monitoring of crane hook position | optional, if height sensor signal is available (retrofittable) |
| Dimension of warning/stopping distances | freely configurable |
| Real-time operation | yes |
| Data transmission | via LPR® radio channel or Ethernet |
| Parameterization | no programming skills necessary |
| System operation monitoring (communication and position) | CCC checks system integrity<br>LPR®-1D24 stations check data integrity |
| Position detection | LPR®-1D24 |