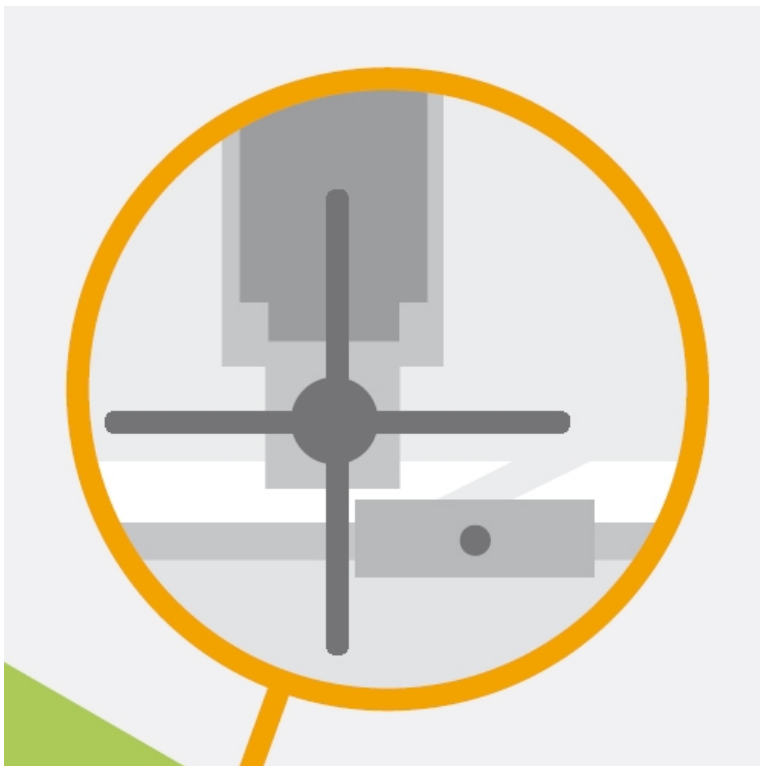




Limit switches management

Increase protection of crane equipment and reduce risks.

This function manages the motion of the bridge or trolley of an industrial crane along an axis with a cross stick limit switch using two points of detection on each side. It defines the stop and slow point by setting up the distance parameter. You can also use it as an anti-collision function by using a photoelectric sensor instead of limit switch.



Benefits

Reduce risks

- Limit the working zone.
- Prevent breakdown or load dropping.

Increase equipment protection

- Prevent damage to crane equipment.

Easy to install

- Save commissioning time.

Diagnostic display

- The limit switch status can be displayed on the HMI.

Operating principle

- This function manages the motion movement along an axis with low speed and stop sensors.
- Positioning can be performed in one or both directions
- The sensors can be disabled so the object can pass the stop sensor and proceed further, if required
- When the moving object is stopped on the stop sensor of one direction, it can be moved in the opposite direction
- The positioning can be performed based on distance
- For testing purposes, the stop position can be disabled within software so the object can pass by the slow sensor and the crane will be stopped by the buffer

Characteristics

The limit switch function is based on a cross stick limit switch and smart relay or drive controller.

Typical applications

Industrial cranes

- Overhead travelling cranes
- Gantry cranes

Typical architectures

• Simple hoisting

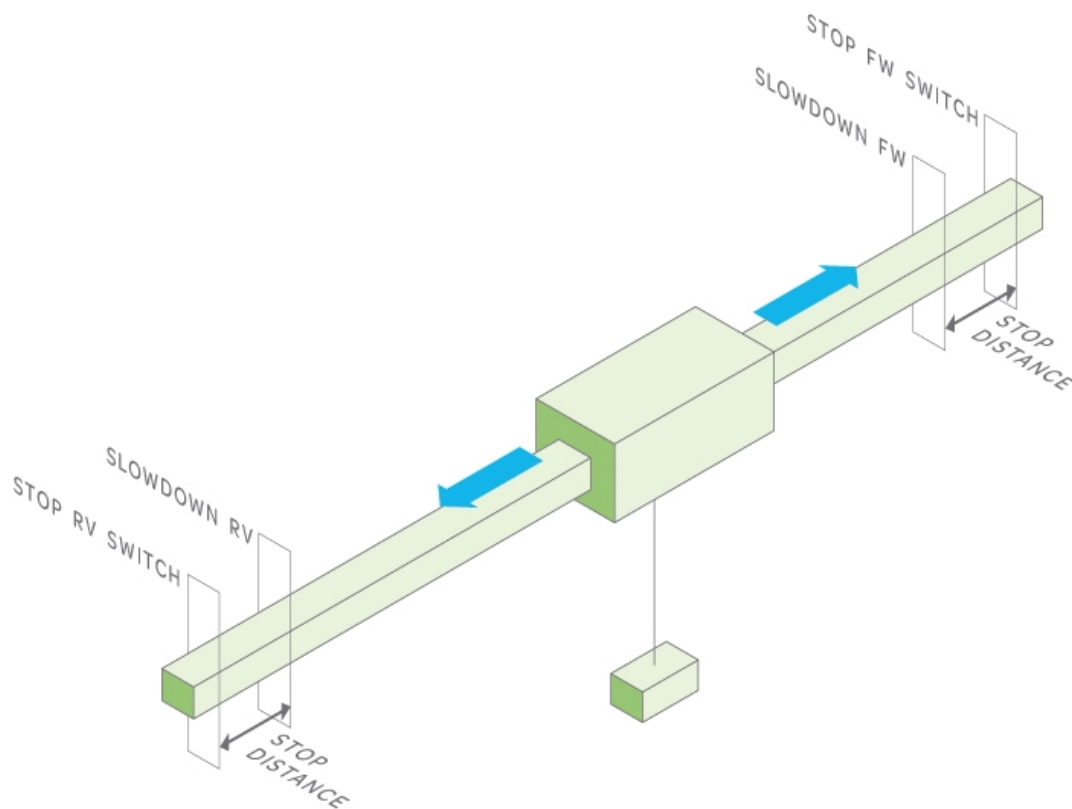
Compact / Hardwired / Logic controller / Zelio Logic

• Optimized hoisting

Compact / CANopen / Drive controller / ATVIMC

• Optimized hoisting

Compact / CANopen / Logic controller / M238



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As standards, specifications and designs change from time to time, please ask for confirmation of the information given in this publication.

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