





Synchronisation of two cranes working in tandem

For situations where the same load is handled using 2 cranes, and we want effective synchronisation of their movements.

+ GH SOLUTION: INTERCONNECTED + TANDEM = INCOTANDEM

- Tandem mode: This allows control of the movements of 2 cranes from 1 radio control.
- There are 2 radio transmitters. Each transmitter can control a crane individually. And when the tandem mode is activated, one of
 the transmitters is capable of controlling the movements of the 2 cranes (it acts as the master).
- Each crane is equipped with 1 receiver with two functions: communication with the transmitter operated by the user and communication with the receiver installed on the other crane.
- If any of the movements (lifting, trolley movement, bridge movement) changes between slow speed/fast speed/stop, a signal is sent to the other crane to carry out the same change.
- The transmitters can be push-button type (standard) or console (optional).

+ ADVANTAGES

- Easy to switch between tandem mode and individual mode. In the transmitter that can function as the master, there is a selector to choose individual mode or tandem mode.
- Suitable for cranes with 1 or 2 trolleys each. Also for cranes with 1 trolley with 2 lifting systems.
- Occupies fewer radio frequencies (only 3 frequencies per pair of cranes).
- The number of pieces of equipment to install is reduced. The system does not need an additional transmitter-receiver set (fixed/fixed system).
- Reduction of components and wiring simplifies installation, commissioning and maintenance.

+ HOW IT WORKS ·GH· GH- $\mathbf{5}_{-}$ If any of the movements (lifting, trolley movement, bridge movement) changes 3 Communication will be 1 Release the crane 2 Activate tandem 4 Two-way that will work as mode on the master established automatically communication between slow speed/ a slave from its transmitter. between the master between the crane fast speed/stop in one transmitter. transmitter and each of the receivers will crane, a signal is sent to receivers installed in the he established the other crane to carry cranes. automatically. out the same change.

TECHNICAL DETAILS

- · Complies with standard EN 15011:2011+A1:2014. Maximum bridge travel speed 60 m/minute. Maximum lifting speed 20 m/minute.
- · Frequency Band: 433-II between transmitter and receiver. EU-870 between receivers.
- · In each crane, the auxiliary contacts of the operating contactors are wired to the receiver (up to a maximum of 16 signals).
- \cdot Options such as the tare button, display, console format, etc. involve a higher price and longer delivery time.
- · For pairs of cranes with 2 trolleys each, it is possible to operate trolleys individually using the selector C1, C2, C1+C2. With standard radio remote, it is not possible to have different movements for each trolley at same time, they have to be synchronized.
- · Can be used both for cranes with motors controlled by variable frequency drives and dual-wound motors.