

large scale lifting solutions.



TIGER



Tiger is developed for those of you who need to radio remote control lifting applications like cranes, OHT cranes and electric hoists. When you radio remote control your application with Tiger you get qualities such as duplex communication, CANopen and Modbus - all in the same system. You get feedback from your application - it gives you full control.

All Tiger transmitters and receivers have a duplex function. The receivers can communicate with

one or more external units, e.g. a weight sensor, through serial communication - Modbus. You get visible feedback through the LEDs on the transmitter showing that the communication between the transmitter and the receiver is working. Several transmitters also have a display on which you get further feedback. For example you can get information on the weight of your load if you have connected a weight sensor to your receiver.



General information about the Tiger system

- The system transmits on 433 434 MHz, 69 channels to choose from.
- Transmitter and receiver with duplex function.
- The system's stop function and two selected relays inside the receivers are SIL 3 IEC 61508 approved.
- The two selected relays have extra high function security.
- The system's software is developed in such a way that it can be easily modified.
- The transmitter and receiver protection is approved for moist and dust according to IP65.
- Each user has to use their own RFID tag to start the transmitter. Unauthorised persons cannot use the system.
- Hamming distance bigger than 9 for decreased interference.
- The radio packages are protected by a 32 bit CRC to ensure the integrity of the radio traffic.



Information about Tiger transmitters

- Visible feedback through the LEDs on the transmitter showing that the communication between transmitter and receiver is working.
 - Button transmitter is available with or without a display. This transmitter
- can show useful information to the user such as weight data, signal strength, battery level, etc.
- All transmitters are equipped with a horn. It warns you when a failure occurs and when the battery level is low.
- Each user has to use their own RFID tag to start the transmitter. Unauthorised persons cannot use the system.
- The transmitter protection is classified as IP65.
- Rechargeable and replaceable battery, Li-ion, with a new attachment.

Information about Tiger receivers

- The receivers communicate with external units via Modbus.
- The receiver can be supplied with CANopen.
- A large number of configurations on the receivers.
- The receivers accept 12-350V DC and 24-230V AC.
- The receiver protection is classified as IP65.









Technical specifications.









TRANSMITTER	TXI-A	TX2-A	JDI-A	JD2-A
Frequency (MHz)	433,075 - 434,775	433,075 - 434,775	433,075 - 434,775	433,075 - 434,775
Channels	69	69	69	69
Unique individual code	•	•	•	•
Duplex	•	•	•	•
Number of functions	10×2	12x2	2×2	2x4
Built-in antenna	•	•	•	•
Power supply	Li-ion	Li-ion	Li-ion	Li-ion
Power consumption*	~50-250 mA	~50 mA	~50-250 mA	~50-250 mA
IP class	IP65	IP65	IP65	IP65

^{*)} Without backlit display



RECEIVER	RXI-A	RX2-A	RX3-A
Frequency (MHz)	433,075 - 434,775	433,075 - 434,775	433,075 - 434,775
Channels	69	69	69
Antenna	External	External	External
Duplex	•	•	•
Power supply	12-350V DC 24-230V AC	12-350V DC 24-230V AC	12-350V DC 24-230V AC
Functions	12	28	12 (CANopen)
Power consumption	~20-1200 mA	~20-1200 mA	~20-1200 mA
Size	256x217x85 mm 10.1 x 8.5 x 3.3 in	256x217x85 mm 10.1 x 8.5 x 3.3 in	256×217×85 mm 10.1 × 8.5 × 3.3 in
IP class	IP65	IP65	IP65





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