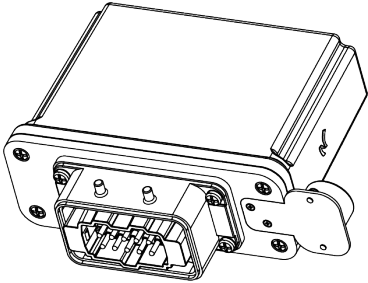


GENERAL INFORMATION

Receivers R10

- R10-01, R10-02 -



About Tiger TG2 systems

The Tiger TG2 product range is composed of transmitters and receivers intended for use together as a system in complex lifting applications such as cranes, OHT cranes and electric hoists or mobile applications.

ABOUT R10 RECEIVERS

R10 receivers have simplex communication with support for duplex.

R10 receivers are compatible with all T9, T11, T12, T14 and T15 transmitters within the same frequency range.

OVERVIEW OF AVAILABLE MODELS

- 433 MHz frequency range

	Main board	Expansion board
	7 relays	Low voltage
R10-01	●	-
R10-02	●	●

● Standard - Not available

About this document

Every care has been taken in the preparation of this document. Please inform Tele Radio AB of any inaccuracies or omissions. This document covers general safety issues, main technical specifications, warranty, service and maintenance and regulatory information. For more information, please refer to the End user instructions and the Installation instructions available on www.tele-radio.com. Images shown in this document are for illustrative purposes only.

Warnings & restrictions



Carefully read through the following safety instructions before proceeding with the installation, configuration, operation or maintenance of the product. Failure to follow these warnings could result in serious injury and property damage.

Tiger TG2 products must not be operated without having read and understood the Installation instructions, the specific technical documentation (when provided), and having received the appropriate training. The purchaser of this Tiger TG2 product has been instructed how to handle the system safely. The following information is intended for use as a complement to applicable local regulations and standards.

INSTALLING, CONNECTING AND MOUNTING

- This radio system must not be used in areas where there is a risk of explosion.
- Tele Radio AB remote controls are often built into wider applications. Those systems should be equipped with:
 - a wired emergency stop where necessary.
 - a brake.
 - an audible or visual warning signal.
- Always switch off all electrical power from the equipment before installation procedure.
- Only licensed or qualified personnel should be permitted to install the product.
- To utilize the safety of the system, use the stop relays in the safety circuitry of the object that you want to control.
- When the equipment controlled by the receiver's standard relays is connected via the stop relays, make sure that the maximum current through the stop relays is still within the specifications. Contact your representative for assistance.
- Avoid registering transmitters in receivers where they are not being used.
- The receiver should be installed well away from wind, damp and water. It must be securely attached and located where it will not be hit by e.g. any moving parts.
- Do not install the product in areas affected by strong vibrations.
- Cable glands and vent plugs must face downwards to prevent water from gaining access.
- Check that the power supply is connected to the correct connection terminal.
- Do not use damaged cables. Cable must not hang loose.

- Avoid installation in areas subject to strong vibrations
- The receiver can withstand normal weather conditions but should be protected from extreme conditions. The receiver should also not be subjected to mechanical water pressure i.e. a pressure washer or similar adverse conditions.

OPERATION

- Only qualified personnel should be permitted to access the transmitter and operate the equipment.
- Make sure that the user satisfies the age requirements in your country for operating the equipment.
- Make sure that the user is not under the influence of drugs, alcohol and medications.
- Make sure that the user knows and follows operating and maintenance instructions as well as all applicable safety procedures and requirements.
- The user should:
 - always test the transmitter stop button before operating it. Press the stop button then twist and pull it out. This test should be done on each shift, without a load.
 - never use a transmitter if the stop button is mechanically damaged. Contact your supervisor/representative for service immediately.
 - never let the transmitter unattended.
 - always switch the transmitter off when not in use. Store in a safe place.
 - keep a clear view of the work area at all times.

MAINTENANCE

- Keep the safety instructions for future reference. Always download the configuration instructions from our website for the latest available version.
- Always contact your representative for service and maintenance work on the product.
- Write down the serial numbers/ ID codes of the receivers and transmitters used. This information should be recorded in the "Settings document" for your product (can be downloaded from www.tele-radio.com).
- If error messages are shown, it is very important to find out what caused them. Contact your representative for help.

- The functionality of the stop button should be tested at least after every 200 hours' use. Test the stop button by pressing it and pulling it out.
- If the stop button is mechanically damaged, do not use the transmitter. Contact your representative for service immediately.
- **Before maintenance intervention on any remote controlled equipments:**

- **always remove all electrical power from the equipment.**
- **always follow lockout procedures.**

Regulatory information

NOTE: Models including additional naming conventions:

Model	Article names	Additional naming conventions
R10	R10-01	R00010-01, R10-1, TG-R10-1, TG-R10-01
	R10-02	R00010-02, R10-2, TG-R10-2, TG-R10-02

EUROPE

Applies to:

- **R10-01, R10-02**

CE MARKING

Hereby, Tele Radio AB, declares that the radio equipment type(s) listed above is/ are in compliance with Directive 2014/53/EU.

The latest version of the complete EU Declaration of Conformity is available on the Tele Radio AB website, www.tele-radio.com.

WEEE DIRECTIVE



This symbol means that inoperative electrical and electronic products must not be mixed with household waste. The European Union has implemented a collection and recycling system for which producers are responsible. For proper treatment, recovery and recycling, please take this product to a designated collection point.

Tele Radio AB strives to minimize the use of hazardous materials, promotes reuse and recycling, and reduces emissions to air, soil and water. When a commercially viable alternative is available, Tele Radio AB strives to restrict or eliminate substances and materials that pose an environmental, health or safety risk.

AEC

Applies to:

- **R10-01, R10-02**

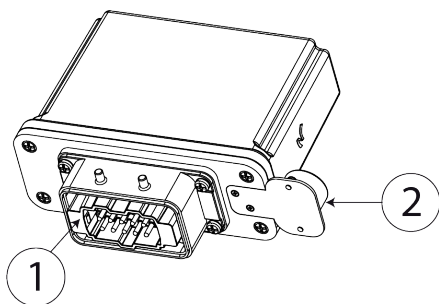
AEC STATEMENT (ДЕКЛАРАЦИЯ ЕАС)

This product is declared as compliant within Eurasian Economic Union (EAC). EAC declaration is available on request.

PRODUCT DESCRIPTION

Receiver description

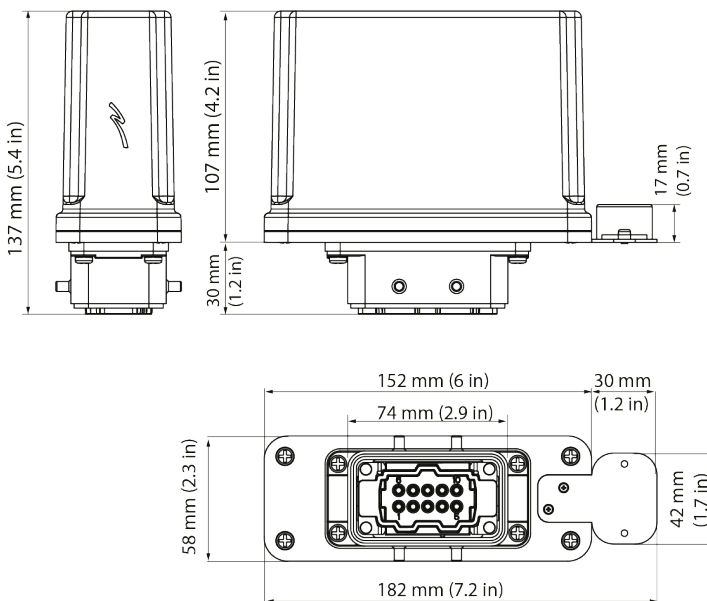
R10-01, R10-02



1. 10-pin connector

2. External buzzer

Mechanical installation



TECHNICAL DATA

NOTE: The information below may differ in customized systems, please refer to the corresponding technical documentation provided with each system.

Receiver specifications

	R10-01	R10-02
Input power	48–230 V AC, 50–60 Hz, max. 0.5 A	12–24 V AC/DC, max. 0.5 A
Number of stop relays	2 (potential free*, 10 A)	
Number of relays	7 (potential free*, 10 A) ¹	
Relay functionality		
Number of digital inputs	2	
Number of transistor outputs	1	
Bus system	–	
Connector		
Radio communication	Simplex (default), support for duplex	
Radio frequency band	433.075–434.775 MHz	
Number of channels	69 (channels 1–69)	
Max. number of registered transmitters	15	
Radio frequency output power	EIRP ² : < 10 dBm (10 mW)	
IP code	IP66	
Safety level	EN 61508 SIL3 and EN ISO 13849 PLe (Stop function)	
Dimensions	152 x 137 x 58 mm / 6 x 5.4 x 2.3 in	
Weight (typical)	650 g / 1.4 lbs	

¹Maximum load is indicated for resistive load only.

²Equivalent isotropic radiated power

	R10-01	R10-02
Operating temperature	-20...+55 °C / -4...+130 °F	
Antenna	Internal antenna	

* Potential free means that a supply voltage is needed to get voltage out of a relay (e.g. via the included connection comb).

Current consumption

Input power	R10-01		R10-02	
	Min.*	Max.**	Min.*	Max.**
12 V AC	–	–	0.05 A	0.3 A
24 V AC	–	–	0.03 A	0.2 A
48 V AC	0.02 A	0.09 A	–	–
115 V AC	0.01 A	0.04 A	–	–
230 V AC	0.01 A	0.03 A	–	–
12 V DC	–	–	0.06 A	0.4 A
24 V DC	–	–	0.03 A	0.2 A

*Minimum current consumption = Receiver powered, no active relays, no radio session established.

**Maximum current consumption = Receiver powered, all relays on the receiver active, radio session established.

WARRANTY, SERVICE, REPAIRS, AND MAINTENANCE

Tele Radio AB products are covered by a warranty against material, construction and manufacturing faults. During the warranty period, Tele Radio AB may replace the product or faulty parts. Work under warranty must be performed by Tele Radio AB or by an authorized service center specified by Tele Radio AB.

The following are **not** covered by the warranty:

- Faults resulting from normal wear and tear
- Parts of a consumable nature
- Products that have been subject to unauthorized modifications
- Faults resulting from incorrect installation and use
- Damp and water damage

Maintenance

Repairs and maintenance must be performed by qualified personnel

Only use spare parts from Tele Radio AB

Contact your representative for service or any other assistance

Keep the product in a clean, dry place

Keep contacts and antennas clean

Wipe off dust using a slightly damp, clean cloth

NOTE: Never use cleaning solutions or high-pressure washer.

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For more information about this product, download the latest Installation instructions from

www.tele-radio.com.