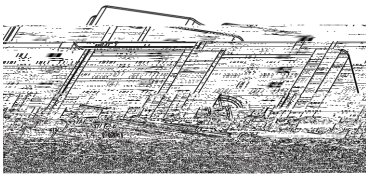


### GENERAL INFORMATION

Receivers - R23-01, R23-03 -



Receivers - R23-02, R23-04 -



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### 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 death or serious injury.

This product must not be operated without having read and understood the Safety information sheet and having received the appropriate training. The purchaser of this 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.

**IMPORTANT!** Tele Radio remote controls are often built into wider applications. These systems should be equipped with:

- a wired emergency stop where necessary
- a brake
- an audible or visual warning signal

### INSTALLATION AND COMMISSIONING

**IMPORTANT!** Only licensed or qualified personnel should be permitted to install the product.

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before installation procedure.

### About R23 receivers

Tele Radio's remote control systems are suitable for a wide variety of applications for e.g. stationary or mobile equipments, hydraulic machines, construction, forestry or agriculture equipments and more. Tele Radio's transmitters and receivers are highly customizable and can be configured to

	Casing type		Main board	Expansion boards			Bus system
	1 (yellow / black)	2 (black)	10 relays	5-relay	14-relays	DI	CAN/RS485
R23-01							
R23-02							
R23-03							
R23-04					-		

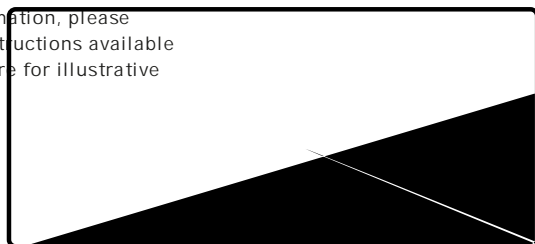
1

Standard; Optional ; - Not possible

### About this document

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

**RISK OF ELECTRIC SHOCK**  
The receiver must only be opened by qualified installers or authorized personnel.  
Make sure the power supply is switched off before opening the receiver.  
Failure to follow these instructions could result in death, serious injury, or equipment damage.



- Ensure that the power supply is connected to the correct terminals.
- Ensure that flexible cords and cables are not damaged through friction or stress.
- Do not use damaged cables.
- Ensure cables and connectors do not hang loose.

<sup>1</sup>Must be purchased separately.

- The receiver is designed to withstand normal weather conditions but should be protected from extreme conditions.

# SAFETY INFORMATION SHEET

## RECEIVERS

- Install the receiver in a location where the LED is easily visible and the button accessible.
- Make sure to install available accessories inside or on the receiver before permanently installing the receiver. A permanent installation of the product must include fuse protection of the LED is easily visible.

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# SAFETY INFORMATION SHEET

## RECEIVERS

### WARRANTY, SERVICE, REPAIRS, AND MAINTENANCE

	R23-01	R23-03
	potential free <sup>1</sup> , 10 A, 250 V AC	
Number of digital inputs	-	-
Number of digital outputs	2	5
Bus system	-	-
Connector	Cable gland M25 x 1.5 (PA66)	
Dimensions	176 x 160 x 75 mm / 6.9 x 6.3 x 3 in	
Weight (typical)	745 g / 1.64 lbs	832 g / 1.83 lbs

#### R23-02, R23-04 (HOUSING 2)

	R23-02	R23-04
Number of relays	10	15
	potential free, 10 A, 250 V AC	
Number of digital inputs	-	-
Number of digital outputs	2	5
Bus system	-	-
Connector	Customizable (e.g. Harting 10, 16 or 24 pin, or cable gland. Must be purchased separately).	
Dimensions	209 x 147 x 71 mm / 8.23 x 5.8 x 2.8 in	
Weight (typical)	919 g / 2.02 lbs	943 g / 2.08 lbs

#### Current consumption

Input power	R23-01, R23-02		R23-01, R23-02 with CAN and RS485 exp. boards		R23-02 with 14-relay exp. board	
	Min.*	Max.**	Min.*	Max.**	Min.*	Max.**
12 V AC	100	428	144	482	106	785
24 V AC	52	175	72	192	55	332
48 V AC	33	105	44	115	35	210
115 V AC	15	45	19	48	16	80
230 V AC	11	25	13	27	12	42
12 V DC	105	355	143	390	109	645
24 V DC	55	188	76	203	57	330

Input power	R23-03, R23-04		R23-03 with 14-relay and DI exp. boards	
	Min.*	Max.**	Min.*	Max.**
12 V AC	100	580	108	950
24 V AC	52	226	55	388
48 V AC	34	138	35	265
115 V AC	15	56	16	90
230 V AC	10	30	11	47
12 V DC	105	455	109	740
24 V DC	55	237	58	379

\*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.

<sup>1</sup>\* Potential free means that a supply voltage is needed to get voltage out of a relay.