

T3 - T5 - T7

Radio remote control



Radio remote control with handheld transmitter suitable for cranes and bridge cranes. Handy, compact and lightweight. Designed to reduce installation and maintenance time and costs.

FEATURES

- Quick and easy installation: from the transmitter it is possible to change the frequency, visualizing it through the flashing led channel indicator, program automatic switch-off functions, set the radio output power, enable low power start-up, program the auxiliary button functions to meet the operator's needs.
- Transmitter with pushbuttons suitable for use with safety gloves (ø 21cm).
- IP protection degree: T3, T5 and T7 are classified IP65.
- Extreme temperature resistance: from -20°C to +70°C.
- Tough NYLON casing for protection against shocks and scraping, resistant to acids, oils and chemical agents.

OPTIONS

- Available in configurations from 3 to 7 actuators, plus Start and Stop.
- Available with protective case and shoulder strap.
- Transmitter powered by high capacity internal battery with an operating life of over 1,200 hours (depending on the power used). An emergency kit using standard AA batteries (either 1.5 V alkaline or 1.2 V rechargeable) is also available.
- Receivers are available for mounting inside the electric panel (RX DIN), in a watertight case for outdoor installation (RX CL), and in a compact case (Ecobox).
- Supplied with a sturdy and reliable waterproof antenna (UHF model) for the receiver mounted inside the electric panel (RX DIN) or with an internal antenna for the version with outdoor casing (RX CL and Ecobox).
- Directional and high-gain antennas also available (Flat870 model).
- If the transmitter is not working, the patented "REMSYS CODE" system allows its immediate substitution and link-up with the same receiver using a simple control sequence.

CERTIFICATIONS

- CE Marking.
- Performance Level Category 3 PL d.
- Performance Level Category 2 PL c.

POSSIBLE ASSEMBLIES



RECEIVER UNITS



CERTIFICATIONS

Conformity to Community Directives	R&TTE 99/05/CE (Annex III) Radio and Telecommunications Terminal Equipment Directive
	LVD (2006/95/CE) Low Voltage Directive
Conformity to CE Standards	EN 301 489-3 Electromagnetic compatibility and Radio spectrum Matters (ERM) - Electromagnetic Compatibility (EMC) standard for radio equipment and services - Part 3.
	EN 300 220-2 Electromagnetic compatibility and Radio spectrum Matters (ERM) - Short Range Devices (SRD) - Radio equipment to be used in the 25 MHz to 1 000 MHz frequency range with power levels ranging up to 500 mW - Part 2.
	EN 60950-1 Information technology equipment - Safety - Part 1: General requirements.
	EN 60204-32 Safety of machinery - Electrical equipment of machines - Part 32: Requirements for hoisting machines.
	EN 13557 Cranes - Controls and control stations
Markings and homologations	EN 61000-6-2 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments.
	EN ISO 13849-1:2006 Performance Level of Safety Function Category 3 PL d Stop Protection Category 2 PL c Protection against unintended movements from the standstill position

TECHNICAL SPECIFICATIONS

Ambient temperature	Storage -20°C/+70°C
	Operational -20°C/+70°C
Frequency available	UHF 433-870 MHz Unified
	915 MHz for Usa and Canada
	418 MHz for China
Hamming code	> 4
Maximum no. of simultaneous on/off controls	8
Response time	50 ms
Active Emergency/Stop response time	50 ms
Passive Emergency response time	1 s
Operating range	100 mt
Stop control classification	Category 3 PL-D

SPECIFICATIONS OF TRANSMITTER UNIT

No. of buttons	From 3 to 7 + Start and Stop
Modulation	FM Manchester code
Output power	From 1 to 10 mW
Oscillator	Digital PLL
Antenna	Integrated
Power supply	3.6 Vdc
Power consumption	From 13.5 mA to 24 mA
Batteries	Li-ion 3.6V
Battery life	Up to 1200 hours (20°C)
Low battery warning time	30 hours
IP protection degree	IP 65
Overall dimensions	174 x 85 x 37 mm (LxWxD)
Weight	350 g

SPECIFICATIONS OF RECEIVER UNITS

Radio frequency receiver	Single Chip
Antenna	RX CL: integrated (external antennas available)
	Ecobox: integrated (external antennas available)
	RX DIN: external
Control relay contact rating	4A /115 Vac
Stop relay contact rating	4A /115 Vac
Power supply	12-24 Vdc
	24-115 Vac
	230 Vac (only RX CL)
IP protection degree	RX CL watertight Nylon casing for outdoor mounting in Nylon: IP 65
	Ecobox watertight Nylon casing for outdoor mounting in Nylon: IP 65
	RX DIN for internal mounting on DIN bar: IP 20
Overall dimensions	RX CL: 266 x 169 x 89mm (LxWxD)
	Ecobox: 176 x 124 x 50mm (LxWxD)
	RX DIN: 158 x 90 x 75 mm (LxWxD)

SPECIFICATIONS OF EXTERNAL ANTENNAS

Model	UHF	Flat870	Whip
Specifications	Universal antenna suitable for standard applications. Prepared for fastening through a 16 mm diameter hole.	Directional antenna suitable for special applications where increased radio coverage in a particular direction is necessary. Prepared for pole or similar support.	Omnidirectional antenna suitable for applications where an all-direction radio coverage is required. Prepared for fastening through a 13 mm diameter hole.
Working frequency	418 MHz, 433-434 MHz, 870 MHz, 915 MHz	870 MHz	418 MHz, 433-434 MHz, 870 MHz, 915 MHz
Gain	5 dB	14 dB	8 dB
IP protection degree	IP 65, material: PA6 FV	-	-
Overall dimensions	128 x 72 x 50 mm (LxWxD)	240 x 25 x 240 mm (LxWxD)	35 x 450 x 35 mm (LxWxD)
Weight	140 g	800 g	190 g
Connection	Supplied with 1.5 m cable and SMA or SMB connector (depending on the model)	Supplied with 3 m cable and SMA connector	Supplied with 3 m cable and SMA connector