

BRICK

Radio remote control



Radio remote control with handheld transmitter with shoulder strap, suitable for cranes and bridge cranes. Ergonomic, 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, enable low power start-up, program the auxiliary button functions to meet the operator's needs.
- Transmitter equipped with high elasticity and resistance elastomer buttons.
- IP protection degree: Brick is 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.
- Designed with an ergonomic shaped base and anti-slip bars for a better grip.
- Automatic switch-off after 4 minutes inactivity.
- Standard version includes a digital key for higher reliability.

OPTIONS

- Available in configurations from 9 to 12 actuators, plus Start and Stop.
- Patented universal electromagnetic induction charging device: the batteries inside the transmitter are recharged by inductive energy transfer by simply placing the transmitter on its base. A 20 minute charge is enough for a typical working day.
- Receivers are available for mounting inside the electric panel (RX DIN) or in an IP65 watertight case for outdoor installation (RX RubyBox).
- Operational data storage by the receivers (working hours, total amount of start-ups and shut-downs, number of lift or movements); the display (on request) is available for the data visualization.
- 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 RubyBox).
- Directional and high-gain antennas also available (Flat870 model).

CERTIFICATIONS

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

RECEIVER UNITS

RX DIN



RX RubyBox



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 |
| | CE |

TECHNICAL SPECIFICATIONS

| | |
|---|-------------------------|
| Ambient temperature | Storage -20°C/+70°C |
| | Operational -20°C/+70°C |
| Frequency available | 433 MHz |
| | 870 MHz |
| | 418 MHz for China |
| Hamming code | > 4 |
| Maximum no. of simultaneous on/off controls | 10 |
| Response time | 45 ms |
| Active Emergency/Stop response time | 45 ms |
| Passive Emergency response time | 1 s |
| Operating range | Approx. 100 mt |
| Stop control classification | Cat 3 PL-D |

SPECIFICATIONS OF TRANSMITTER UNIT

| | |
|--------------------------|---------------------------------|
| No. of buttons | From 9 to 12 + 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 | 45 mA |
| Batteries | Integrated 3x1 x 1.2 V - 1800mA |
| Battery life | ≈ 35 hours (20°C) |
| Low battery warning time | 60 minutes |
| IP protection degree | IP 65 |
| Overall dimensions | 210 x 80 x 40 mm (LxWxD) |
| Weight | 400 g |

SPECIFICATIONS OF RECEIVER UNITS

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|------------------------------|--|
| Radio frequency receiver | Single Chip |
| Antenna | RX RubyBox: 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 24-115Vac 230Vac |
| IP protection degree | RX RubyBox watertight Nylon casing for outdoor mounting: IP 65 RX DIN for internal mounting on DIN bar: IP 20 |
| Overall dimensions | RX RubyBox: 266 x 169 x 89mm (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 |

