

BRICK and PAIL

Technical sheet



Compact safety and utmost manoeuvrability

REMdevice, with the standard BRICK and PAIL platform, meets all types of applications in the world of industrial and building lifting. Reliable, ergonomic and suitable to any site situation, even the most extreme.

Technical features

- Control Commands: on/off - potentiometric control - BCD code - RS 422/485
- Hamming code distance > 4
- Command response time: 45 ms
- Active emergency stop command response time: 45 ms
- Command passive emergency response time: 1 s
- The stop command is rated PL d cat. 3 and SIL 2
- The joysticks (UMFS) are rated PL d cat. 3 and SIL 2
- Range: about 100 m
- Operating and storage temperature: -20°C / +70°C

Operating frequency

- 433.050 – 434.790 MHz – No. 59 channels, 25 kHz
MAX radiofrequency emitting power <10mW (e.r.p.)
- 869,700 – 870,000 MHz – No. 11 channels, 25 kHz
MAX radiofrequency emitting power <5mW (e.r.p.)
- 418 MHz version for the Chinese market

Transmitter units

- Modulation: GFSK Manchester encoding
- Radiofrequency emitting power: from 1 to 10 mW
- Oscillator: PLL digital synthesizer
- Antenna: built in
- Power Supply: 3.6 Vdc
- Current demand: max. 45 mA
- Accumulators: built in 3X1.2V 1800 mA
- Up to 40 hours' autonomy (20°C)
- Battery low warning time: 60 minutes
- Waterproof Casing for Outdoor use: Nylon PA6 FG, Protection Grade IP65
- Dimensions (LxHxD): BRICK 97x44x210 mm - PAIL 200x130x135 mm
- Weight: BRICK 470 g - PAIL 930 g (varies depending on configuration)

Options

- LCD 1.3" display
- Omnidirectional external antenna
- Directional external antenna
- Lever Switch
- Proportional control



Receiver units

- Radiofrequency receiver: Single Chip
- Antenna: dedicated multi-band
- Command relay contact capacity: 4A (DC1/AC1) / 115V
- Stop relay contact capacity: 4A (DC1/AC1) / 115V
- No. of on/off contacts: ≤ 22 + START + STOP + CLAX + LAMP
- No. of proportional contacts: 1 BCD (optional module)
- Supply: 12-24 Vdc $\pm 25\%$ / 24-115 Vac $\pm 10\%$
Optional only CL RUBYBOX: AC 230V $\pm 10\%$ 50-60 Hz
- Waterproof Casing for Outdoor use: Nylon PA6 FG, Protection Grade IP65
- Dimensions RXDIN-CL and CL RUBYBOX: 166X279X91 mm (LxHxD)
- Dimensions RXDIN: 158x75x90 mm (LxHxD)

Available receiver:

RXDIN, RXDIN-CL, CL RUBYBOX



Monitor tester

Self-powered display instrument to connect to the receiver, capable of acquiring the operating data of the radio control.

VIEWABLE INFORMATION:

- Working frequency and operating channel
- Signal and interference level
- Number of starts and working hours
- Number of Up and Down commands
- Relay operating diagnostics
- Active controls



Wireless Charging System

REMdevice transmitters (T Series excluded) are equipped with the exclusive **Patented** wireless induction charging system.



Reference legislation

Safety EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013

Health EN 62479:2010

EMC EN 61000-6-2:2005
EN 61000-6-3:2007 + A1:2011

Radio ETSI EN 300 220-1 V3.1.1 Final Draft
ETSI EN 300 220-2 V3.1.1 Final Draft
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.0 Draft

China Radio Transmission Approval Certificate

Russia EAC-GOST Certificate

Machinery EN 60204-32:2008
(as applicable) EN 13557:2003 + A2:2008
UNI EN ISO 13849-1:2016

Directives

- Radio Equipment Directive (RED) 2014/53/EU
- Machinery Directive 2006/42/CE (as applicable)



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