

# Push-button radio remote control Type M

## Main features



This small-sized, lightweight transmitter is made of shock proof material and is easy to handle even while wearing gloves, due to the ample surface area of the push-buttons.

A series of adhesive labels is available for easy identification of the commands, either standard for both tower- and bridge-cranes or customised upon request.

The operating frequency can be adjusted directly from the transmitter by using a simple combination of buttons, with automatic realignment of the receiver.

The 12 relay receiver is available with both AC and DC power supply and can easily be cabled, thanks to the removable terminal board.

The dip-switches can be used to programme a series of special functions, thereby ensuring maximum installation flexibility.

The receiver electronic parts are housed in an attractive case featuring a handle for easy transportation and which can be wall-mounted, allowing the equipment to be removed without using tools. The fully modular composition allows components to be replaced rapidly by the after-sales service staff.

## Technical Features

Operating frequency range	433.05 ÷ 434.790 MHz ISM
Max. no. commands	12 + start/stop
Hamming distance	6
Possibility of erroneous movement	4.7 x 10 <sup>-11</sup>
Command and stop response time	65 mS
Passive emergency time	<1.6 S
Operating range	80 m
Operating temperature	-10°C ÷ +55°C
Protection degree	IP65

### TRANSMITTER

Power	10 mW ERP
Supply voltage	7.2 Volt c.c.
Consumption	65 mA max
Autonomy on continuous duty	8 hrs minimum
Case	nylon-glass
Size	210 x 85 x 45 mm
Weight inc. battery	550 g

### RECEIVER

Antenna	incorporated
A.c. power supply Voltage	48/110V ~ 50-60 Hz 5 VA
C.c. power supply Voltage	12(24)V --- 5W
Command or stop relay load	8 A/250 V~
Case	ABS
Size	340 x 210 x 115 mm

## Reliability

All the M electronic parts undergo sophisticated functions testing in our laboratory.

In addition, are also realized tests for shock and chemical resistance, atmospheric agents and temperature changes.



## Types and Codes

**M6** 6-button M type radio remote control  
Complete kit of 1TX, 1RX, 1CB, 2PB and technical information

**M8** 8-button M type radio remote control  
Complete kit of 1TX, 1RX, 1CB, 2PB and technical information

## For Your Safety

Safety has always been a priority and that is why all our radio remote controls are designed with double control channels. The receiver operates using a double microprocessor circuit. In addition to receiving the commands from the transmitter, each of the two microprocessors carries out a continuous check on the functioning of the other. The exit circuit is provided with two safety relays for the STOP function. This particular circuit design ensures that any possible breakdown or anomaly will not affect the equipment's ability to stop. This equipment offers a higher degree of safety than that available on other systems using either a single microprocessor or STOP relay.



## Compliance with Directives

Type M push-button radio remote controls are CE marked and comply with the following directives:  
R&TTE 99/05/EC - 2004/108/EC - 2006/95/EC - 98/37/EC

### Transmitter

The lightweight transmitter is made of special shockproof material, has double steps contacts and comes in a water-tight casing. Its ergonomic shape means it can be operated using one hand only.

### Key and Emergency Stop button

To ensure maximum operating safety, the selector key and the emergency STOP button are produced by leading manufacturers. In particular, a model certified according to the EN Standard no. 954-1 has been chosen for the emergency STOP button.

### Receiver

The water-tight receiver with incorporated antenna comes with a handle which facilitates removal once work is finished. In addition, a practical accessory to facilitate wall-mounting is available upon request.

### Batteries and Battery-charger

The rapid battery-charger ensures full recharging of batteries in 4.5 hours.

The battery pack allows 8 hours autonomy on continuous duty of the equipment.

