Joystick radio remote control Type J and J+

Main features

The J Joystick range of radio remote controls has been designed to satisfy different operating requirements in various fields.
The transmitter, available with 2 joysticks - 1 or 2 axis - can be used to move a large number of machines.
Many functions have been included and can be actived directly by the transmitter, in order to increase versatility of the different models.
The working frequency, passive emergency time and battery saver application can therefore be modified.
A space has been provided on the transmitter, to enable the installation of additional commands, available on request, such as push-button and selectors which can be used for accessory functions.
The receiver is available in 20 relay version, with a.c. and d.c. power supply.
The dip-switches on the receiver allow a series of special, programmable functions to be set up, ensuring maximum flexibility of installation.

Reliability

All J Joystick electronic components undergo sophisticated operating tests carried out in suitable laboratories.
The devices are tested for shock and chemical resistance, atmospheric agents and temperature changes.

Applications

Tower cranes, bridge cranes, jib cranes, derricks, winches, hoists, road rescue services and automated industrial machinery in general.

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Joystick radio remote control Type J+ two-way version

Main features

The J+ radio remote control is the two-way version, by which the transmitter unit can receive feedback from the radio commanded machine.
The transmitter with 2 joysticks - 1 or 2 axis - are equipped with an LCD display with 24 alpha-numeric characters and a number of icon symbols.
Immediate information regarding weight, distance, working conditions, errors, etc. can therefore be easily shown on the display.
If the operating machine is provided with an intelligent serial connection, the type and quantity of feedback are virtually unlimited.
In this case the message construction is governed directly by the machine, using a number of simple software functions.
If no serial interface is available, a series of OFF/ON inputs is provided in any case, which can be used to visualise specific messages pre-set into the device.

J Types and Codes

J 32	3 axis J radio control, 2 aux Kit: 1Tx, 1Rx, 1Cb, 2Pb, Technical Sheets
J 35	3 axis J radio control, 5 aux Kit: 1Tx, 1Rx, 1Cb, 2Pb, Technical Sheets
J 42	4 axis J radio control, 2 aux Kit: 1Tx, 1Rx, 1Cb, 2Pb, Technical sheets
J 45	4 axis J radio control, 5 aux Kit: 1Tx, 1Rx, 1Cb, 2Pb, Technical sheets

J Types and Codes

J+ 32	3 axis J+ radio control 2 aux Kit: 1Tx, 1Rx, 1Cb, 2Pb, Technical Sheets
J+ 42	4 axis J+ radio control 2 aux Kit: 1Tx, 1Rx, 1Cb, 2Pb, Technical sheets

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TECHNICAL DATA

GENERAL	
Operating frequency	433.05 ÷ 434.79 MHz
Distance of Hamming	6
Probability of wrong manoeuvre	4.7 x 10^{-11}
Programmable codes of address	with 48 bit key
Command response time	65 mS
Active emergency response time	65 mS
Passive emergency response time	< 1.6 S
Operating range	80 m
Working temperature range	-10C° ÷ +55C°
Protection degree	IP65

TRANSMITTER	
R. F. Power	10 mW ERP
Power supply	3.6 Vdc
Power consumption	65 mA max
Accumulators	NiMh battery pack model NH650
Continuous operating autonomy	8 hours min.
Case	nylon-glass
Size	see page n. 5
Weight with batteries	1,1 kg aprox.

RECEIVER	
Sensitivity	-110 dBm
Antenna	inside
AC power supply	48V 50-60Hz 5VA
DC power supply	12V 5 W
Command relay range	8A/4A 250V~
Case	ABS
Size	See page n. 5
Weight	1,9 Kg aprox.

For Your Safety

Safety has always been a priority and that is why all our radio remote controls are designed with redundant signals and 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 self-checking safety relays for the STOP function.
This equipment offers a higher degree of safety than that available on other systems using a single micro-processor.
In addition, a 48 bit identifying code key feature offers a unique communication system operating between the transmitter and its designated receiver.

Compliance with Directives

J Joystick radio remote controls:
Are CE marked
Comply with directives R&TTE 99/05 - 89/336/CE - 73/23/CE
Show the Identification Number 0678

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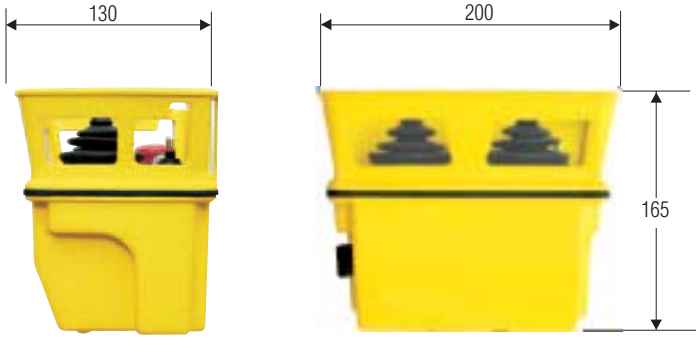
Dimensions

Transmitter

The lightweight transmitter, made of special, shock-proof material, features 2 joysticks - 1 or 2 axis for 4 positions and a special series of push buttons or levers for auxiliary commands.
Thanks to its ergonomic shape, it can be operated very easily.
In order to ensure maximum versatility of use, the radio remote control can be personalised with special executions and appropriate labels.
Emergency STOP button, produced and certified according to EN954-1 Standards has been installed to ensure maximum safety during operation.

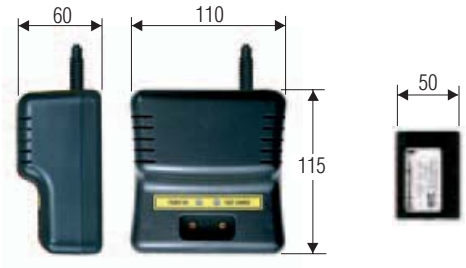


Receiver

The water-tight receiver with incorporated antenna comes with a handle which can also be wall-mounted, allowing a quick removal after use without any need of tools.
Although the size is very small, the receiver is provided with a removable terminal board which allows an easy and fast cabling.
Thanks to a self-checking system, all the operating phases of the radio remote control, like setup, are shown and readable through 8 leds.

Battery charger and batteries

The rapid battery charger enables total re-charging of batteries in 4÷5 hours.
The nickel/metal-hydrate battery pack guarantees 8 hours autonomy on continuous duty of the device.
The complete recharging and the automatical switching off of the battery charger are shown through a led.
Every radio remote control device is provided with 2 batteries and a battery charger.



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