CLESCRANE

Industrial Wireless Remote Control System

CLESCRANE

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TM713

13 control point requirements can be met:
Three-mechanism two-speed, start, electric bell, lighting, emergency stop (built-in)

TM721

21 control point requirements can be met:
Four-mechanism two-speed, start, electric bell, lighting, emergency stop (built-in)

√ Durable two-position key switch
√ Multi-band radio technology for full-duplex communication
√ Highly customized
√ External removable EEPROM SIM module
√ Easy and fast maintenance
√ High impact resistance
√ Anti-interference frequency management

√ Durable two-position key switch
√ Multi-band radio technology for full-duplex communication
√ Highly customized
√ External removable EEPROM SIM module
√ Easy and fast maintenance
√ High impact resistance
√ Anti-interference frequency management

Transmitter (standard)	T701	Receiver (standard)	R13B
Emergency stop function	Cat.3-PLd	Emergency stop function	Cat.3-PLd
Protection class	IP65/NEMA4	Protection class	IP65/NEMA4
smart card	External, removable EEPROM	smart card	External, removable EEPROM
main operating mechanism	6 dual-position buttons	AC powered	48~230VAC
Auxiliary operating mechanism	Start/Bell button	Switch output point	13
battery model	BT06K	Maximum output current	8A
Endurance time	10 hours	Dimensions (L×W×H mm)	245x160x80
Operating temperature range	-20℃~+70℃ (-4℉~+158℉)	Operating temperature range	-20℃~+70℃ (-4℉~+158℉)
Weight (g)	460 (including battery)	Weight (g)	1700
frequency band	Multi-band optional (400~930MHz)	output plug	16 cores
transmitter antenna	built-in	receiver antenna	built-in
		Receiver (optional)	
		DC power supply	8~36VDC
		output aviation plug	25 cores

Transmitter (standard)	T70	Receiver (standard)	R13F
Emergency stop function	Cat.3-PLd	Emergency stop function	Cat.3-PLd
Protection class	IP65/NEMA4	Protection class	IP65/NEMA4
smart card	External, removable EEPROM	smart card	External, removable EEPROM
main operating mechanism	10 dual-position buttons	AC powered	48~230VAC
Auxiliary operating mechanism	Start/Bell button	Switch output point	21
battery model	BT06K	Maximum output current	8A
Endurance time	10 hours	Dimensions (L×W×H mm)	245x160x80
Operating temperature range	-20℃~+70℃ (-4℉~+158℉)	Operating temperature range	-20℃~+70℃ (-4℉~+158℉)
Weight (g)	550 (including battery)	Weight (g)	1700
frequency band	Multi-band optional (400~930MHz)	output plug	25 cores
transmitter antenna	built-in	receiver antenna	external
Transmitter (optional)		Receiver (optional)	
Auxiliary operating mechanism	Rotary switch	DC power supply	8~36VDC
Display screen	LCD display	output aviation plug	32 cores
		Analog output	Up to 4, 0-10V or 4-20mA

TMIK 313 M2

13 control point requirements can be met:
Three-mechanism two-speed, start, electric bell, lighting, emergency stop (built-in)

√ Multi-band radio for full-duplex communication
√ Highly customized
√ External removable EEPROM SIM module
√ Easy and fast maintenance
√ High impact resistance
√ Innovative Ergonomics
√ Anti-slip treatment
√ Anti-interference frequency management

Transmitter (standard)	IK3	Receiver (standard)	R13B
Emergency stop function	Cat.3-PLd	Emergency stop function	Cat.3-PLd
Protection class	IP65/NEMA4	Protection class	IP65/NEMA4
smart card	External, removable EEPROM	smart card	External, removable EEPROM
main operating mechanism	2 Universal joysticks	AC powered	48~230VAC
Auxiliary operating mechanism	Side keys (start, bell, etc.)	Switch output point	13
battery model	BT27IK	Maximum output current	8A
Endurance time	16 hours	Dimensions (L×W×H mm)	245x160x80
Operating temperature range	-20℃~+70℃ (-4℉~+158℉)	Operating temperature range	-20℃~+70℃ (-4℉~+158℉)
Weight (g)	1780 (including battery)	Weight (g)	1350
frequency band	Multi-band optional (400~930MHz)	output plug	25 cores
transmitter antenna	built-in	receiver antenna	external
Transmitter (optional)		Receiver (optional)	
main operating mechanism	Up to 3 Universal joysticks can be added	DC power supply	8~36VDC
Auxiliary operating mechanism	Toggle switch, Rotary switch	output aviation plug	32 cores

TMIK 329 M4

29 control point requirements can be met
Four-mechanism four-speed, start, electric bell, lighting, reset, boarding, gripper opening and closing, spreader rotation, emergency stop (built-in)
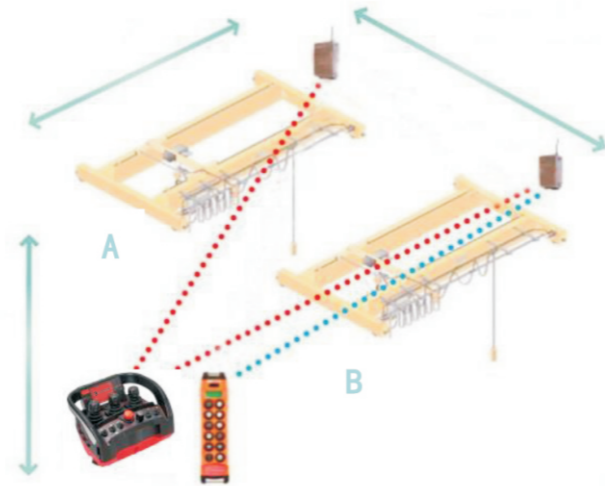
√ Multi-band radio for full-duplex communication
√ Highly customized
√ External removable EEPROM SIM module
√ Easy and fast maintenance
√ High impact resistance
√ Innovative Ergonomics
√ Anti-slip treatment
√ Anti-interference frequency management

Transmitter (standard)	IK3	Receiver (standard)	R70
Emergency stop function	Cat.3-PLd	Emergency stop function	Cat.3-PLd
Protection class	IP65/NEMA4	Protection class	IP65/NEMA4
smart card	External, removable EEPROM	smart card	External, removable EEPROM
main operating mechanism	2 Universal joysticks	AC powered	48~230VAC
Auxiliary operating mechanism	Side keys (start, bell, etc.)	Switch output point	29
battery model	BT27IK	Maximum output current	8A
Endurance time	16 hours	Dimensions (L×W×H mm)	285x200x110
Operating temperature range	-20℃~+70℃ (-4℉~+158℉)	Operating temperature range	-20℃~+70℃ (-4℉~+158℉)
Weight (g)	1780 (including battery)	Weight (g)	2100
frequency band	Multi-band optional (400~930MHz)	output plug	32 cores
transmitter antenna	built-in	receiver antenna	external
Transmitter (optional)		Receiver (optional)	
main operating mechanism	Up to 3 Universal joysticks can be added	DC power supply	8~36VDC
Auxiliary operating mechanism	Toggle switch, Rotary switch	output aviation plug	50 cores
Display screen	3.5 inch color TFT display	Analog output	Up to 8, 0-10V or 4-20mA

Special function options

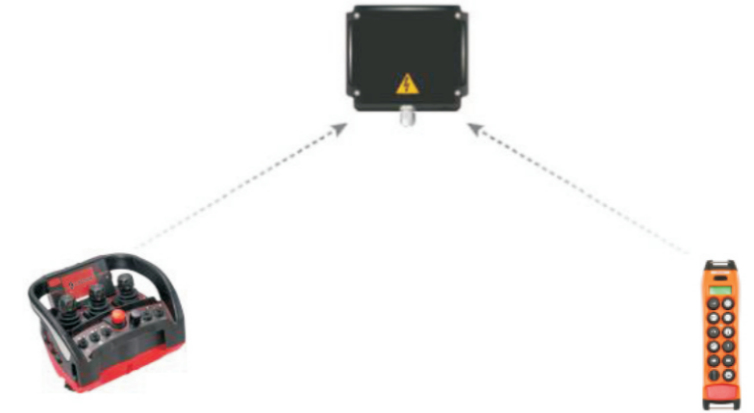## master-slave system

√ **Main remote control (joystick):** can control A and B cranes individually, Also can control A and B cranes simultaneously.

√ **From the remote control (button):** only control B crane alone.

√ In normal state, the master and slave remote controllers can be used independently.

√ When a single crane cannot meet the lifting requirements, just select the operation mode of the remote controller (with master-slave function) to "A+B", and the master remote controller can control the cranes A and B at the same time for linkage lifting.
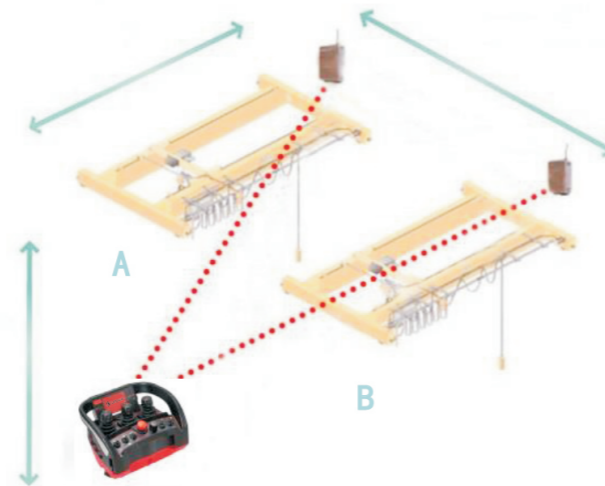
Multiple-to-one receive function

√ **Remote control (joystick/button):** The first transmitter to establish communication with the receiver obtains the right to use the receiver.

One-to-multiple receive function

√ **Remote control (joystick/button):** can control A and B cranes individually, Also can control A and B cranes simultaneously.

√ In normal state, the remote control can choose A or B for single crane operation.

√ When a single crane cannot meet the lifting requirements, just select the remote control operation mode to "A+B", and the remote control can be used to control the cranes A and B at the same time for linkage lifting.

Infrared boot function

√ The transmitter can establish wireless communication with the receiver only after the transmitter and receiver have established an infrared connection.
This function is used to prevent the operator from booting with poor sight or far away from the crane to avoid safety accidents.