

MR11

Radio remote
system for hoisting
applications



CHARACTERISTICS:

Radio remote system for hoisting applications -overhead cranes- NON COMPATIBLE with safety standard Cat.3 CE EN-954-1 or EN 13849. Available receiver power supplies (24-48-115 and 230v AC) with a maximum of 11 output relays.

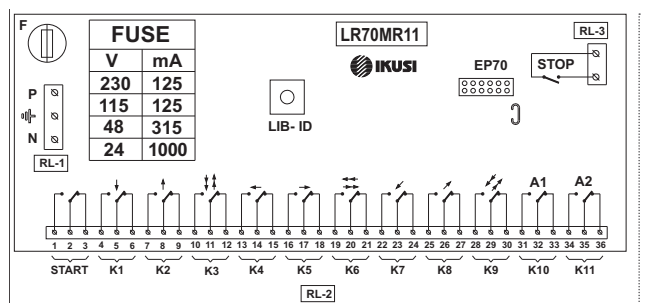
- New tactile and high sensitivity keyboard.

- Slim dimensions and reduced weight.
- Ergonomic transmitter with one or two step pushbuttons.
- Automatic working channel selection.
- Auto ID teaching function.
- Remotely programmable receiver's outputs using the programmer module (radio remote

- programmer module).
- EP70 EEPROM or detachable SIM module compatibility (TM70 range), to backup or to restore system's configurations.



>>>R70MR11 Receiver1



>>> Block diagram for receiver output

TECHNICAL SPECIFICATIONS:

MODELS	IKUSI's PART NUMBER
70ME903 TM70MR11-915-115-E	3302653
70ME802 TM70MR11-870-230-E	3302654
70ME402 TM70MR11-433-230-E	3302659
TRANSMITTER CHARACTERISTICS	TECHNICAL SPECIFICATIONS
Available frequency	
PART NUMBER 3302653	915MHz
PART NUMBER 3302654	870MHz
PART NUMBER 3302659	433MHz
RF Power (ERP)	< 1mW 915MHz / < 5mW 870MHz / < 10mW 433MHz
Modulation type	FSK a 4.800 bps y 7.200 bps
Protection	IP65 / NEMA-4
Channel bandwidth	25KHz
Number of IDs	64K per band
Response time	< 150ms
Antenna	Internal: printed circuit board integrated
Weight	180gr (without batteries)
Dimensions	Length = 160mm / Wide = 75mm / Height = 45mm
Non rechargeable (Alkaline) and rechargeable (NiMH) batteries	Alkaline type AA 1,5V 2600mAh (-10°C / +50°C) (14°F / 122°F) Commercial Range NiMH type AA 1,2V 1200mAh (-20°C / +70°C) (-4°F / 158°F) Industrial Range
Battery life	>12h (100% duty cycle) Alkaline 2600mAh >6h (100% duty cycle) NiMH 1200mAh
EEPROM	Internal / External EP70 -extractable-
Operating temperature range	-20°C / +70°C (-4°F / 158°F)
Signalling	1 bicoloured LED (RUN labelled)
Acoustic signalling	Internal buzzer
Number of functions	3 functions max. (2 steps) + 2 auxiliary functions (1 step) + ON/STOP function + START function.
RECEIVER CHARACTERISTICS	TECHNICAL SPECIFICATIONS
Available frequency	
PART NUMBER 3302653	915MHz
PART NUMBER 3302654	870MHz
PART NUMBER 3302659	433MHz
Power supply	
PART NUMBER 3302653	115V AC 50/60Hz (+20% / -30% Vin)
PART NUMBERS 3302654/3302659	230V AC 50/60Hz (+20% / -30% Vin)
Number of outputs / STOP function	11 relay outputs for hoisting applications. STOP function Category.2 EN-954-1 or EN 13849)
Protection	IP65 / NEMA-4
Antenna	Printed circuit board integrated (standard)
Working channel selection	Automatic at transmitters' start-up -by Eeprom set up-
Weight	980 grs.
Dimensions	Length = 205mm / Wide = 156mm / Height = 62mm
EEPROM	Internal / external EP70 -extractable-
Status signalling	MultiLED: 7 LED visible externally
Connexions	Plug-In terminals. Inputs/outputs with PG 21 (25 poles maximum) cable gland
Maximum current over resistive load	8A
Operating temperature range	-20°C / +70°C (-4°F / 158°F)

PROGRAMMABLE VALUES by EEPROM		
Parameter	Default value	Range (programmable values)
START (LLAVE SOFTWARE)	NO	See User's Manual
SEARCH MODE	OFF	ON, OFF. (SEARCH MODE)
TOUT LATENCY	4min	1 to 6min; steps of 1 min, and infinite ("INF" value) minutes. (Time to LATENCY state).
TOUT OFF	15min	10 to 20min step of 1 min, and infinite ("INF" value). (Time from LATENCY state to "Stand-by" state or "low consumption" mode).
TSTOP	2s	1 to 10sec.: steps of 0,1sec. (Passive STOP time)
OUTMODE	MOMENTARY	MOMENTARY or LATCHING (OUTPUTS: OPERATING MODES)
SOFTSTART	ON	ON or OFF (Enable or Disable soft start)
SOFTSTOP	ON	ON or OFF (Enable or Disable soft stop)
ACCEL RAMP	0,1s	0,0sec, 0,1sec, 0,2sec, 0,3sec, 0,4sec, 0,5sec, 0,6sec, 0,8sec, 1,0sec, 1,2sec, 1,5sec, 1,7sec, 2,0sec, 2,5sec, 3,5sec, 5,0sec (Ramp acceleration adjustment for each output)
DECEL RAMP	0,1s	0,0sec, 0,1sec, 0,2sec, 0,3sec, 0,4sec, 0,5sec, 0,6sec, 0,8sec, 1,0sec, 1,2sec, 1,5sec, 1,7sec, 2,0sec, 2,5sec, 3,5sec, 5,0sec (Ramp deceleration adjustment for each output)
PWM FREQ	300Hz	30Hz to 300Hz; Step = 10Hz. (R70MP10: PWM output frequency adjustment. Independent for each output).

DESCRIPTION

Radio remote system for hoisting applications –overhead cranes- STOP function according with safety standard Cat.2 CE EN-954-1 or EN 13849. Also valid to use in AC powered installations and applications in which those manoeuvres need to be managed or controlled by relays. Available receiver power supplies (24-48-155 and 230v AC) with a maximum of 11 output relays.

- New tactile and high sensitivity keyboard.
- Slim dimensions and reduced weight.
- Ergonomic transmitter with one or two step pushbuttons.
- Automatic working channel selection –by Eeprom setup-
- Auto ID teaching function.
- ID releasing function from the current transmitter or from a new transmitter.
- EP70 EEPROM or detachable SIM module compatibility –TM70 range- to backup or to restore system's configurations providing an easy and fast maintenance using a spare trasnmsitter.



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