

ENGINEERING
TOMORROW*Danfoss*

Data Sheet

Remote Control R13 B Receiver

The R13 B receiver is highly customizable with many features and mounting kits to ensure reliable and safe operation in potentially dangerous applications.

Features

- Multiband Radio with Full-Duplex communication
- External LEDs for troubleshooting
- Highly field-customizable
- External removable EEPROM SIM module
- STOP: PLd, Category 3 according to EN ISO 13849-1:2008
- Multi-feedback capability
- 13 digital outputs

Benefits

- Easy and fast maintenance
- Frequency management against interferences
- Suitable for all common proportional valves

Applications

Industrial lifting and automation



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Technical data

Description	Value
Stop function (400-900 MHz)	Cat. 3-PLd
Ingress Protection rating	IP65/NEMA4
Frequency band	433.050 to 434.040 MHz; ERP<1 mW
	434.040 to 434.790 MHz; ERP<10mW
	869.700 to 870.000 MHz; ERP<5 mW
	902.000 to 928.000 MHz; ERP<1mW
Range Line of Sight (guaranteed)	100m
AC power supply	48 – 240 Vac / 18 – 30 Vac (700mA)
DC power supply	8 – 36 Vdc (2A)
Antenna	Internal
Removable EEPROM	External
Signalling	External
STOP Output (400-900MHz)	1 (6A)
Start Output	1 (8A)
Safety Relay	1 (8A)
ON/OFF outputs	13 (8A)
Proportional Outputs	N/A
CAN Bus Protocols	N/A
ON/OFF inputs	4
Proportional inputs	1
Response Time	100ms
Maximum Total output current	8A
Operating Temperature Range	-20 °C to 70 °C (-4 °F to 158 °F)
Storage Temperature Range (24h)	-25°C to 75°C (-13°F to 167°F)
Storage Temperature Range (long periods)	-25°C to 55°C (-13°F to 131°F)
Relative Humidity	max. 95% without condensation
Weight	1350 grams
Dimensions (LxWxH mm)	245x160x80
Cable connection	N/A
Associated transmitters (400-900 MHz)	Ikargo1, Ikargo2, T70/1, T70/2, T70/1 ATEX, T70/2 ATEX, IK2, IK3, IK4

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Data Sheet

Remote Control R13 F Receiver

The R13 F receiver is highly customizable with many features and mounting kits to ensure reliable and safe operation in potentially dangerous applications.

Features

- Available for 400-900 MHz and 2.4 GHz Frequency Bands
- External display for troubleshooting
- Highly field-customizable
- External removable EEPROM SIM module
- STOP (400-900Mhz): PLd, Category 3
- STOP (2.4GHz): PLe, Category 4

Benefits

- Easy and fast maintenance
- Multi-feedback capability
- Frequency management against interferences
- Suitable for all common proportional valves

Applications

- Industrial lifting and automation
- Construction and mining vehicles
- Cranes



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Technical data

Description	Value
Stop Function (400-900 MHz)	Cat. 3-PLd
Stop Function (2.4GHz)	Cat 4 - PLe
Ingress Protection rating	IP65/NEMA4
Frequency band - ERP	433.050 to 434.040 MHz; ERP<1mW
	434.040 to 434.790 MHz; ERP<10mW
	869.700 to 870.000 MHz; ERP<5mW
	902.000 to 928.000 MHz; ERP<1mW
	2405MHz to 2475MHz 20dBm/100mW
Range Line of sight (guaranteed)	100m
AC power supply	48 - 240 Vac / 18 - 30 Vac (700mA)
DC power supply	8 - 36 Vdc (2A)
Antenna	External
Removable EEPROM	External
Signaling	External
STOP Outputs (400-900MHz)	1 (6A)
STOP Outputs (2.4GHz)	2 (6A)
Start Output	1 (8A)
Safety Relay	1 (8A)
ON/OFF outputs	13 (8A)
Proportional outputs	Option
CAN Bus Protocols	CANopen
ON/OFF inputs	Option
Analog inputs (maximum)	Option
Maximum output current	8A
Response Time:	100ms
Operating Temperature Range	-20 °C to 70 °C (-4 °F to 158 °F)
Storage Temperature Range (24h)	-25°C to 75°C (-13°F to 167°F)
Storage Temperature Range (long periods)	-25°C to 55°C (-13°F to 131°F)
Relative Humidity	max. 95% without condensation
Weight	1350g
Dimensions (LxWxH mm)	245x160x80
Tether Connector	YES (M12 Connector)
Associated Transmitters (400-900 MHz)	Ikargo1, Ikargo2, T70/1, T70/2, T70/1 HALL, T70/2 HALL, IK2, IK3, IK4
Associated Transmitters (2.4 GHz)	Ikore, IkoreB, Icompact, IK2, IK3, IK4
Options	
CAN Bus Protocols	Profibus DP, Profinet
ON/OFF outputs	8 (8A)
Proportional Outputs	4 (PWM or Voltage)
Inputs	24 ON/OFF Inputs or 6 Analog Inputs

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