

Data Sheet

# Remote Control R70 PLUS Receiver

The R13F 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
- Removable EEPROM SIM module
- STOP (400-900Mhz): PLd, Category 3
- STOP (2.4GHz): PLe, Category 4
- 53 digital and 8 analog outputs

## Benefits

- Highly field customizable
- Multi-Feedback capability
- Frequency management against interferences
- Fast and easy maintenance
- Suitable for all common proportional valves

## Applications

- Industrial lifting and automation
- Construction and mining vehicles/ cranes
- Industrial vehicles



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Comprehensive technical literature is  
online at [www.danfoss.com](http://www.danfoss.com)

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## Technical data

Specification	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	Internal
Signaling	Internal
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	Option
ON/OFF inputs	Option
Proportional 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	3000g
Dimensions (LxWxH mm)	359x251x160
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
<b>Options</b>	
CAN Bus Protocols	CANopen, Profibus DP, Profinet
ON/OFF outputs	40 (8A)
Proportional Outputs (400-900 MHz)	10 (PWM or Voltage)
Proportional Outputs (2.4GHz)	10 (PWM or Voltage)
Inputs	44 ON/OFF Inputs or 11 Analog Inputs

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