

Data Sheet

Remote Control

MP20A/MP20V Receiver

The MP20A/MP20V 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
- External Removable EEPROM SIM module
- 12 digital and 8 Proportional outputs (PWM/Voltage)

Benefits

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

Applications

- Construction and mining vehicles and cranes
- Industrial vehicles
- Agriculture and forestry
- Maritime



Comprehensive technical literature is
online at www.danfoss.com

Technical data

Specification	MP20A	MP20V
Stop Function (400-900 MHz)	Cat. 3-PLd	
Stop Function (2.4GHz)	Cat. 3-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	N/A	
DC power supply	8-35 Vdc	
Receiver Current Consumption	200mA	
Antenna	External	
Removable EEPROM	External	
Signaling	External	
STOP Outputs (400-900MHz)	1	
STOP Outputs (2.4GHz)	1	
Start Output	N/A	
Safety Relay	N/A	
ON/OFF Outputs	12 (2A per Output)	
Proportional Outputs	8 PWM (2.5A per Output)	8 Voltage (20mA per Output)
CAN Bus Protocols	CANopen	
ON/OFF Inputs	4	
Analog inputs	Optional	
Maximum Total Output Current	7.5A	
Working 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	1250 g	
Dimensions	245 x 160 x 80mm	
Tether Connector	Yes (M12 Connector)	
Associated Transmitters (400-900 MHz)	Ikargo2, T70/2, T70/2 HALL, IK2, IK3, IK4	
Associated Transmitters (2.4 GHz)	Ikore, IkoreB, Ikomcompact, IK2, IK3, IK4	
Additional Outputs		
	8 ON/OFF or 2 (PWM or Voltage) or (20 ON/OFF or 5 Analog Inputs)	