

ENGINEERING
TOMORROW*Danfoss*

Data Sheet

Remote Control R70 ATEX Z1 Receiver

The R70 ATEX Z1 receiver is highly customizable with many features and mounting kits to ensure reliable and safe operation in potentially dangerous applications.

Features

- Multiband radio
- Removable EEPROM SIM module
- STOP: PLd, Category 3 according to EN ISO 13849-1:2016
- 29 digital outputs

Benefits

- Highly field-customizable
- Frequency management against interferences
- Easy and fast maintenance
- Explosion proof

Explosion protection marking:



Applications

- Explosive environments



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Technical data

Specification	Value
Stop function (400 - 900 MHz)	Cat. 3-PLd
Ingress protection	IP65/NEMA4
Frequency band - ERP	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
DC power supply	N/A
Receiver Current Consumption	700mA
Antenna	External
Removable EEPROM	Internal
Signaling	Internal
STOP Relays	2 (6A)
Start Relay	1 (8A)
Safety Relay	1 (8A)
ON/OFF Outputs	13 (8A)
Proportional Outputs	N/A
CAN Bus Protocols	N/A
ON/OFF inputs	N/A
Proportional inputs	N/A
Response Time	100ms
Maximum Total output current	8A
Operating Temperature Range	-20° C to +60° C (-4° F to +140° F)
Storage Temperature Range (24h)	-25°C to 65°C (-13°F to 149°F)
Storage Temperature Range (Long Periods)	-25°C to 50°C (-13°F to 122°F)
Relative Humidity	max. 95% without condensation
Weight	20 Kg aprox
Dimensions	452 x 350 x 207
Cable connection	N/A
Associated transmitters	T70 1 ATEX, T70 2 ATEX
Additional Options	
ON/OFF Outputs (Maximum)	16 (8A)

ATEX Marking

- Ex II 2 G D
- Ex db ia IIB + H2 T5 Gb
- Ex ia tb IIIC T100°C Db IP65
- T.amb: -20°C +60°C
- INERIS 08ATEX0029X
- IECEx INE16.0028X
- CML 21UKEX11118X

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Remote Control R13 ATEX Z2 Receiver

The R13 ATEX Z2 receiver is highly customizable with many features and mounting kits to ensure reliable and safe operation in potentially dangerous applications.

Features

- Multiband radio
- Removable EEPROM SIM module
- STOP: PLd, Category 3 according to EN ISO 13849-1:2016
- 13 digital outputs

Benefits

- High field customizable
- Frequency management against interferences
- Easy and fast maintenance
- Low mechanical risk
- Low electrostatic build-up risk

Applications

- Explosive environments



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Technical data

Specification	Value
Stop function (400-900 MHz)	Cat. 3-PLd
Ingress protection Rating	IP65/NEMA4
Frequency band - ERP	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 \pm 25% (80mA)
DC power supply	N/A
Receiver current consumption	700mA
Antenna	External/internal
Removable EEPROM	Internal
Signaling	Internal
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	N/A
Proportional inputs	N/A
Response Time	100ms
Maximum Total output current	8A
Operating Temperature Range	-20° C to +50° C (-4° F to +122° F)
Storage Temperature Range (24h)	-25°C to 55°C (-13°F to 167°F)
Storage Temperature Range (Long Periods)	-25°C to 50°C (-13°F to 131°F)
Relative Humidity	max. 95% without condensation
Weight	1350g
Dimensions	245 x 160 x 80
Cable connection	N/A
Associated transmitters	T70 1 ATEX, T70 2 ATEX

ATEX Marking

- Ex II 3 G D
- Ex ic nA nC IIC T4 Gc
- Ex ic tc IIIC T135°C Dc
- T.amb: -20°C +50°C
- INERIS 14ATEX3013X
- IECEx INE16.0005X
- CML 21UKEX21117X

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