

# Product data sheet

Specifications



Programmable receiver - 2 relays -  
24..240 V AC/DC - 2 pusbuttons -  
6 LEDs

ZBRRD

Product availability: Stock - Normally stocked in distribution facility

Price\*: 380.00 USD

## Main

Range Of Product	Harmony
Product Or Component Type	Programmable receiver
Device Short Name	ZBRRD
Product Specific Application	Interface to actuators
Function Of Module	Bi-stable Monostable
Reset Time	2 ms time delay
Transmission Frequency	2405 MHz
Emission Class	5M00G7W
Antenna Type	Omnidirectional

## Complementary

Nominal Output Current	0.3 A 48 V DC IEC 60947-5-1 3 A 24 V DC UL 508 1.5 A 240 V AC IEC 60947-5-1 3 A 120 V AC IEC 60947-5-1 3 A 240 V AC UL 508 3 A 24 V DC CSA C22.2 No 14 3 A 240 V AC CSA C22.2 No 14
Output Type	2 relays
Output Contacts	2 C/O
Input Output Isolation	Galvanic isolation
Time Delay Range	0.5 s - 15...15 %)
Switching Capacity In Va	1250 VA
Maximum Switching Current	5 mA AC/DC
Maximum Switching Voltage	250 V AC/DC
[Us] Rated Supply Voltage	24...240 V AC/DC 50/60 Hz - 10...10 %
Communication Port Protocol	Zigbee green power 2.4 GHz IEEE 802.15.4
Maximum Sensing Distance	328.08 ft (100 m) in free field 82.02 ft (25 m) transmitter in a plastic box type XAL D and receiver in a metal enclosure 131.23 ft (40 m) transmitter in box type XAL D, receiver in metal enclosure and use relay-antenna
Response Time	< 30 ms after transmitter clicks
Utilisation Category	AC-15 : B300 IEC 60947-5-1 DC-12 IEC 60947-5-1

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Maximum Power Consumption In W	4 W AC/DC
Breaking Capacity	15 W
Breaking Capacity	750 VA
Control Circuit Frequency	50...60 Hz +/- 10 %
Short-Circuit Protection	0.4 A fuse fast blow
Operating Position	Any position without derating
Electrical Connection	1 conductor cable 0.00...0.00 in² (0.14...2.5 mm²) - AWG 26...AWG 14 - solid - without cable end IEC 60947-1 2 conductors cable 0.00...0.00 in² (0.14...1.5 mm²) - AWG 26...AWG 16 - solid - without cable end IEC 60947-1 1 conductor cable 0.00...0.01 in² (0.14...4 mm²) - AWG 26...AWG 12 - flexible - with cable end IEC 60947-1 2 conductors cable 0.00...0.00 in² (0.14...1.5 mm²) - AWG 26...AWG 16 - flexible - with cable end IEC 60947-1
Tightening Torque	4.43...8.85 lbf.in (0.5...1 N.m) IEC 60947-1
Housing Material	Self-extinguishing plastic
Status Led	1 LED Green power ON 2 LEDs Green relay ON 2 LEDs Green function mode 1 LED green and yellow reception signal
Mounting Support	35 mm symmetrical DIN rail conforming to IEC 60715 Mounting plate
Rated Short-Duration Power Frequency Withstand Voltage	1.5 kV 50 Hz IEC 60947-5-1
[Uimp] Rated Impulse Withstand Voltage	4 kV
Surge Withstand	1 kV differential mode IEC 61000-4-5 2 kV common mode IEC 61000-4-5
Max Power Consumption In W	1 mW
Number Of Channels	1
Modulation Technique	O-QPSK
Bandwidth	5 MHz
Antenna Gain	0 dBi
Width	1.42 in (36 mm)
Height	4.25 in (108 mm)
Depth	2.95 in (75 mm)
Net Weight	0.29 lb(US) (0.13 kg)

## Environment

Standards	CSA C22.2 No 14 IEC 60947-5-1 UL 508 IEC 60947-1
Radio Agreement	RSS SRRC ANATEL ARIB T66 FCC ICASA
Product Certifications	CCC UL GOST CSA C-tick

Marking	CE
Ambient Air Temperature For Storage	-40...158 °F (-40...70 °C)
Relative Humidity	90 % -4...131 °F (-20...55 °C), without condensation ETSI EN 300 440-1
Vibration Resistance	+/- 7.5 mm 5...14 Hz)IEC 60068-2-6 2 gn 8...150 Hz)IEC 60068-2-6
Shock Resistance	10 gn 16 ms) 6000 shocks IEC 60068-2-27
Ip Degree Of Protection	IP20 IEC 60529 casing) IP20 terminals)
Pollution Degree	2 IEC 60664-1
Overvoltage Category	II IEC 60664-1
Insulation Resistance	> 500 MOhm 500 V DC NF C 20-030
[Ui] Rated Insulation Voltage	250 V IEC 60664-1
Electromagnetic Compatibility	Immunity for industrial environments conforming to IEC 61000-6-2 Conducted and radiated emissions class B conforming to CISPR 22 Electrostatic discharge immunity test - test level: 8 kV (in free air (in insulating parts)) conforming to IEC 61000-4-2 Electrostatic discharge immunity test - test level: 6 kV (on contact (on metal parts)) conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields - test level: 10 V/m (80...2000 MHz) conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test level: 3 V/m (80...2700 MHz, distance = 20 m) conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test - test level: 2 kV (relay wires) conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test - test level: 2 kV (power supply wires) conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test - test level: 1 kV (differential mode) conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test - test level: 2 kV (common mode) conforming to IEC 61000-4-5 Conducted RF disturbances - test level: 10 V conforming to IEC 61000-4-6 Immunity to microbreaks and voltage drops - test level: 10 ms conforming to IEC 61000-4-11 Radiated emission conforming to ETSI EN 300 440-1 Conducted emission conforming to EN 300-489-1 Conducted emission conforming to ETSI EN 300 489-3 Radiated emission conforming to ETSI EN 300 440-2
Electrical Durability	100000 cycles
Mechanical Durability	1000000 cycles

## Ordering and shipping details

Category	US1000I22470
Discount Schedule	000I
Gtin	3606480521164
Returnability	Yes
Country Of Origin	ID

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.77 in (4.5 cm)
Package 1 Width	3.11 in (7.9 cm)
Package 1 Length	3.82 in (9.7 cm)
Package 1 Weight	4.87 oz (138.0 g)

Unit Type Of Package 2	S03
Number Of Units In Package 2	64
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	21.03 lb(US) (9.541 kg)

## Contractual warranty

Warranty	18 months
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Sustainability



**Green Premium™** label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.


[Learn more about Green Premium >](#)


[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

Well-being performance

 Mercury Free

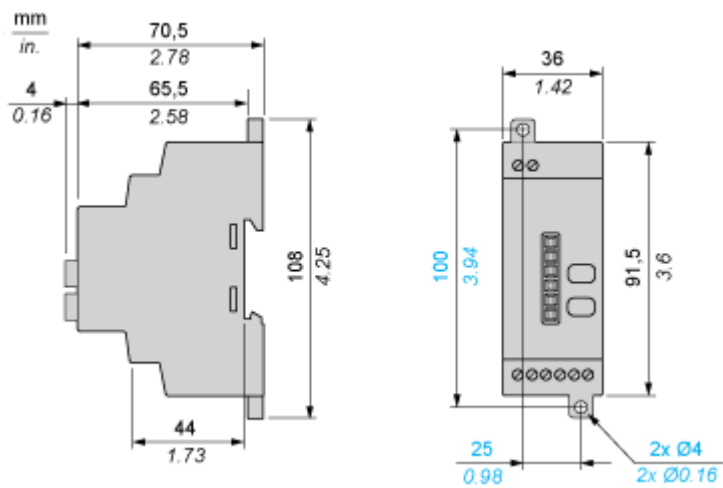
 RoHS Exemption Information   [Yes](#)

Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	<a href="#">End of Life Information</a>
California Proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Dimensions Drawings

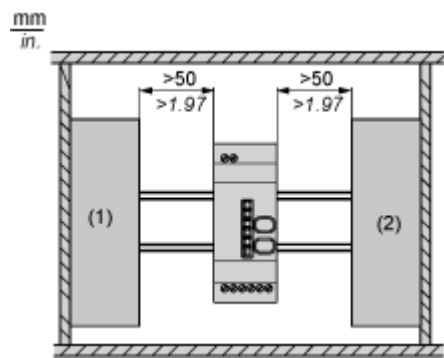
Programmable Receiver



Mounting and Clearance

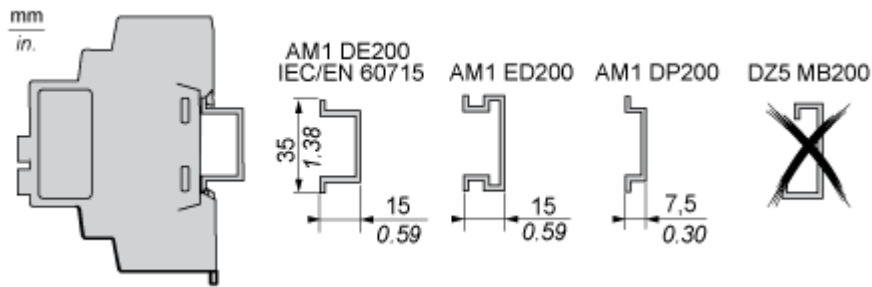
Receiver Clearance

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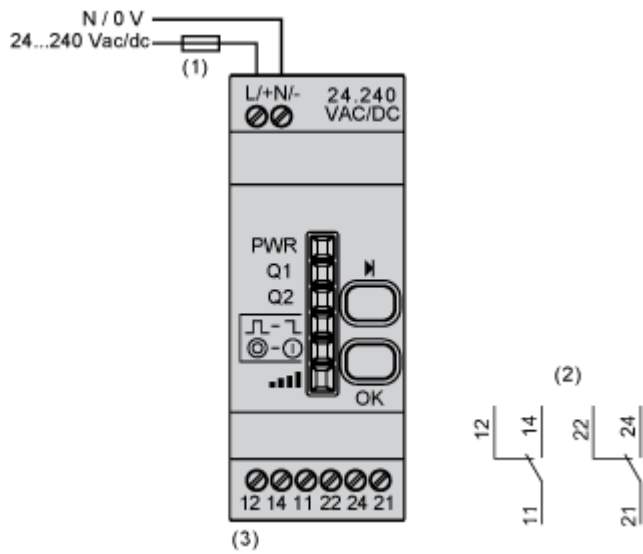
- (1) Drive
- (2) Power Supply or PLC

Receiver Mounting



Connections and Schema

Programmable Receiver



- (1) 500 mA
- (2) Output contacts
- (3)  $I_{max} = 3\text{ A}$