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

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 131.2 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
Maximum power consumption in W	4 W AC/DC

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

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 0.0002…0.004 in² (0.14…2.5 mm²) - AWG 26...AWG 14 - solid - without cable end IEC 60947-1 2 conductors cable 0.0002…0.002 in² (0.14…1.5 mm²) - AWG 26...AWG 16 - solid - without cable end IEC 60947-1 1 conductor cable 0.0002…0.006 in² (0.14…4 mm²) - AWG 26...AWG 12 - flexible - with cable end IEC 60947-1 2 conductors cable 0.0002…0.002 in² (0.14…1.5 mm²) - AWG 26...AWG 16 - flexible - with cable end IEC 60947-1
Tightening torque	4.4…8.9 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	1.4 in (36 mm)
Height	4.3 in (108 mm)
Depth	3.0 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 (f= 5…14 Hz) conforming to IEC 60068-2-6 2 gn (f= 8…150 Hz) conforming to 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 conforming to 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	4.9 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	21.034 lb(US) (9.541 kg)

Contractual warranty

Warranty	18 months

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	32

Use Better

Materials and Substances

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	25b7f895-3732-43c8-9910-ef6005058640
REACh Regulation	REACh Declaration
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 www.P65Warnings.ca.gov

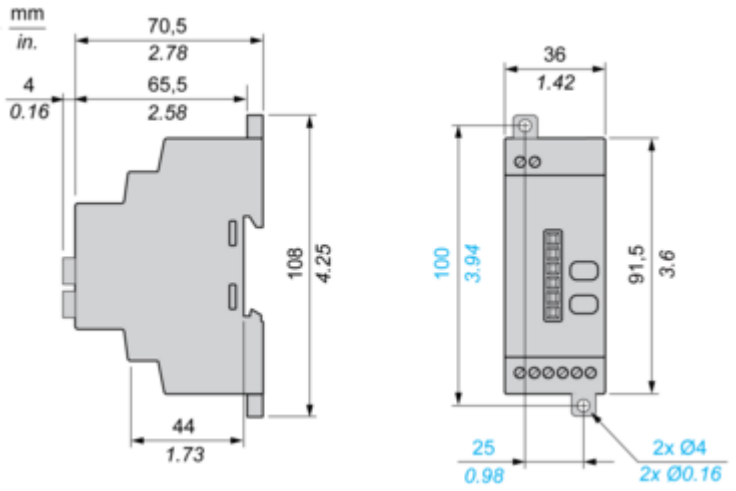
Use Again

Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

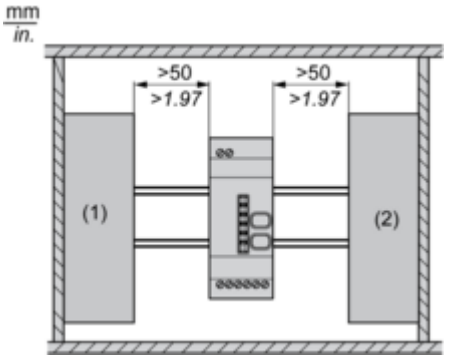
Dimensions Drawings

Programmable Receiver



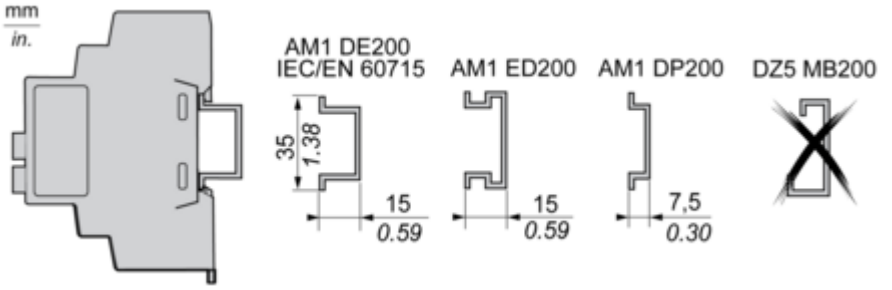
Mounting and Clearance

Receiver Clearance



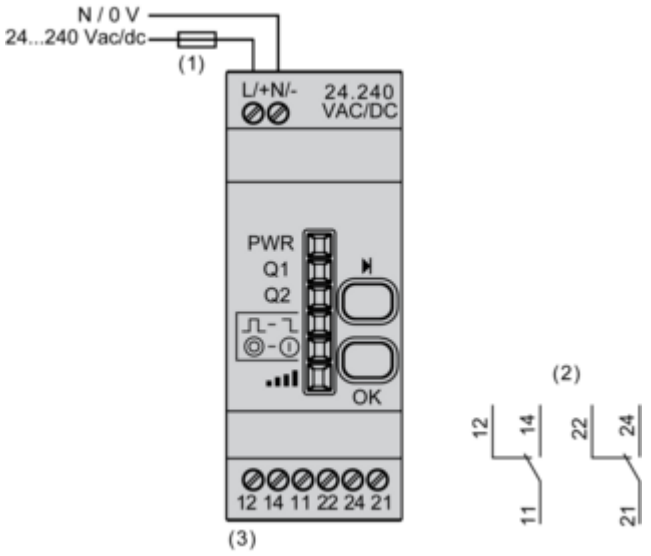
(1) Drive
(2) Power Supply or PLC

Receiver Mounting



Connections and Schema

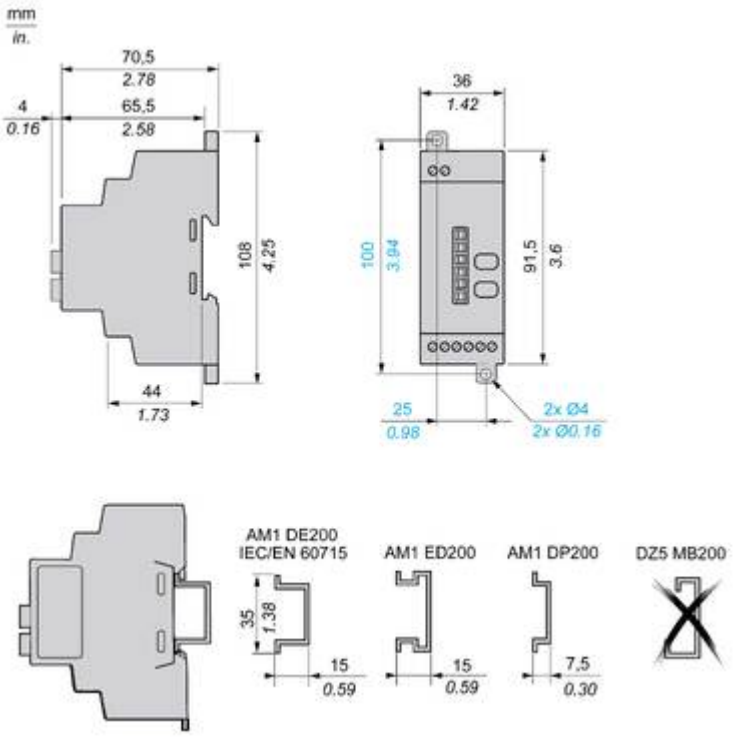
Programmable Receiver



(1) 500 mA
(2) Output contacts
(3) Imax = 3 A

Technical Illustration

Dimensions



Technical Illustration

Wiring diagram

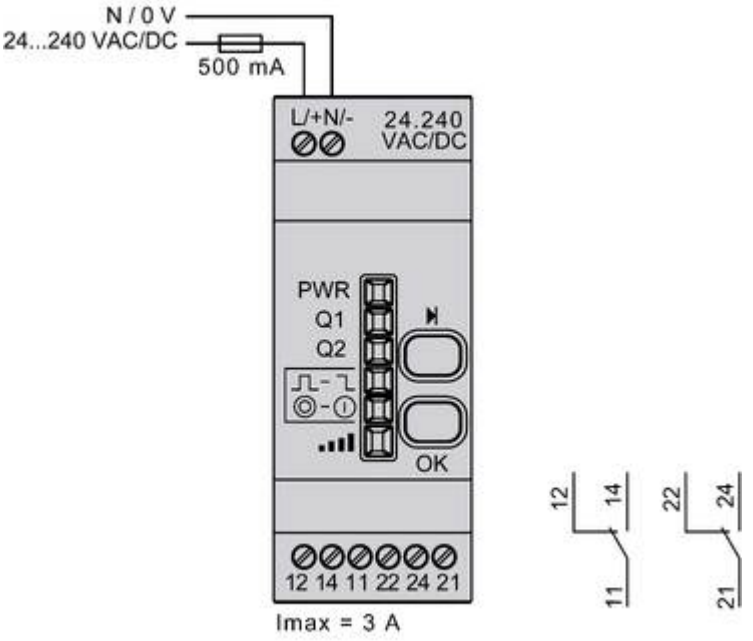
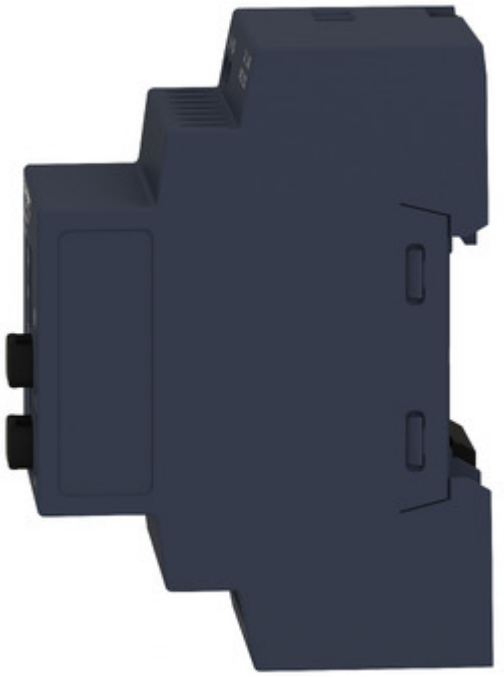


Image of product / Alternate images

Alternative




L/+ N/-
24...240
VAC / DC
Schneider
Electric
Harmony
ZBRRD
Q1
Q2
OK
12 14 11 22 24 21