

Product data sheet

Specifications



Programmable receiver, Harmony XB5R, 4 PNP, 2 buttons, 6 indicating LEDs, monostable, 24V DC

ZBRRC

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Harmony
Product or Component Type	Programmable receiver
Device short name	ZBRRC
Product Specific Application	Interface to PLC
Function of module	Monostable
Reset time	2 ms time delay
Transmission frequency	2405 MHz
emission class	5M00G7W
Antenna type	Omnidirectional

Complementary

Output Type	Transistor PNP
Output contacts	4 PNP
Time delay range	0.5 s - 15...15 %
Maximum switching current	0.2 mA DC
Minimum switching current	10 mA 5 V DC
[Us] Rated Supply Voltage	24 V DC - 15...20 %
Maximum voltage drop	<2 V DC 2 A
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	DC-13 IEC 60947-5-1
Maximum power consumption in VA	20 VA DC
Maximum power consumption in W	20 W DC
Breaking capacity	4.8 W per output)
Short-circuit protection	0.4 A fuse fast blow
Operating position	Any position without derating

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

Electrical connection	1 conductor cable 0.0002...0.004 in ² (0.14...2.5 mm ²) - AWG 26...AWG 14 - solid - without cable end IEC 60947-1 2 conductors cable 0.0002...0.002 in ² (0.14...1.5 mm ²) - AWG 26...AWG 16 - solid - without cable end IEC 60947-1 1 conductor cable 0.0002...0.006 in ² (0.14...4 mm ²) - AWG 26...AWG 12 - flexible - with cable end IEC 60947-1 2 conductors cable 0.0002...0.002 in ² (0.14...1.5 mm ²) - 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 1 LED green and yellow reception signal 4 LEDs Green relay ON
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715 Mounting plate
Rated short-duration power frequency withstand voltage	1 kV 50 Hz IEC 60947-5-1
[Uimp] rated impulse withstand voltage	0.8 kV
Surge withstand	0.5 kV differential mode IEC 61000-4-5 1 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	IEC 60947-5-1
Radio agreement	RSS SRRC ANATEL ARIB T66 FCC ICASA
Product Certifications	CCC CSA GOST C-tick UL
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	III conforming to IEC 60664-1
Insulation resistance	> 500 MOhm 500 V DC NF C 20-030
[Ui] rated insulation voltage	60 V IEC 60664-1
Electromagnetic compatibility	<p>Immunity for industrial environments conforming to IEC 61000-6-2</p> <p>Conducted and radiated emissions class B conforming to CISPR 22</p> <p>Electrostatic discharge immunity test - test level: 8 kV (in free air (in insulating parts)) conforming to IEC 61000-4-2</p> <p>Electrostatic discharge immunity test - test level: 6 kV (on contact (on metal parts)) conforming to IEC 61000-4-2</p> <p>Susceptibility to electromagnetic fields - test level: 10 V/m (80...2000 MHz) conforming to IEC 61000-4-3</p> <p>Susceptibility to electromagnetic fields - test level: 3 V/m (80...2700 MHz, distance = 20 m) conforming to IEC 61000-4-3</p> <p>Electrical fast transient/burst immunity test - test level: 2 kV (power supply wires) conforming to IEC 61000-4-4</p> <p>Conducted RF disturbances - test level: 10 V conforming to IEC 61000-4-6</p> <p>Radiated emission conforming to ETSI EN 300 440-1</p> <p>Conducted emission conforming to EN 300-489-1</p> <p>Conducted emission conforming to ETSI EN 300 489-3</p> <p>Radiated emission conforming to ETSI EN 300 440-2</p> <p>Electrical fast transient/burst immunity test - test level: 1 kV (PNP output wires) conforming to IEC 61000-4-4</p> <p>1.2/50 µs shock waves immunity test - test level: 0.5 kV (differential mode) conforming to IEC 61000-4-5</p> <p>1.2/50 µs shock waves immunity test - test level: 1 kV (common mode) conforming to IEC 61000-4-5</p> <p>Immunity to microbreaks and voltage drops - test level: 7 ms conforming to IEC 61000-4-11</p>

Ordering and shipping details

Category	US1000I22470
Discount Schedule	000I
GTIN	3606480334719
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.8 in (4.6 cm)
Package 1 Width	3.1 in (7.9 cm)
Package 1 Length	3.8 in (9.6 cm)
Package weight(Lbs)	4.3 oz (122.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	64
Package 2 Height	11.8 in (30.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	18.735 lb(US) (8.498 kg)

Contractual warranty

Warranty	18 months
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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
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Use Better

Materials and Substances

Packaging made with recycled cardboard	No
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Packaging without single use plastic	No
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[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

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
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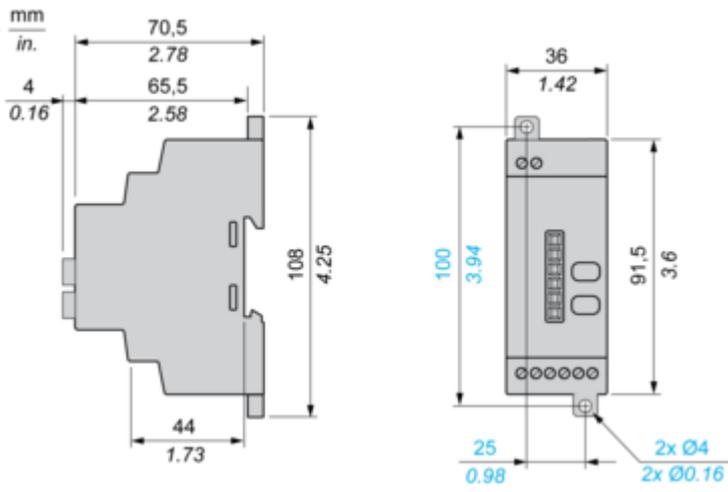
Take-back	No
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WEEE Label

 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

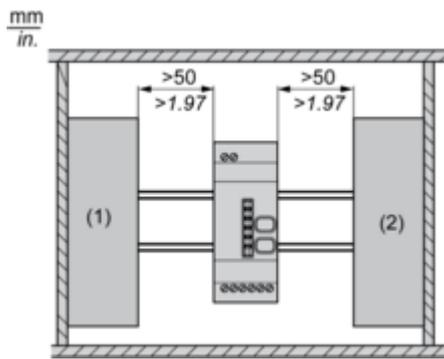
Dimensions Drawings

Programmable Receiver



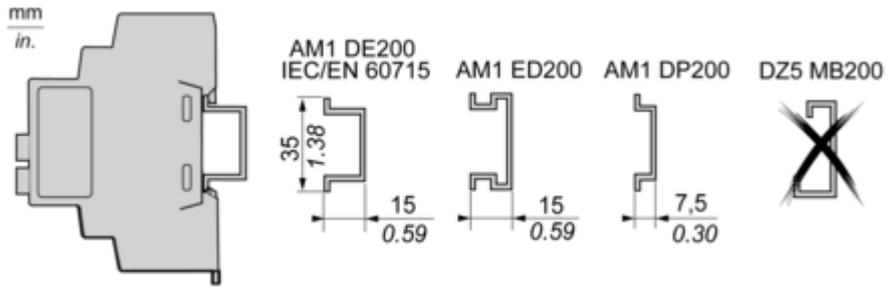
Mounting and Clearance

Receiver Clearance



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

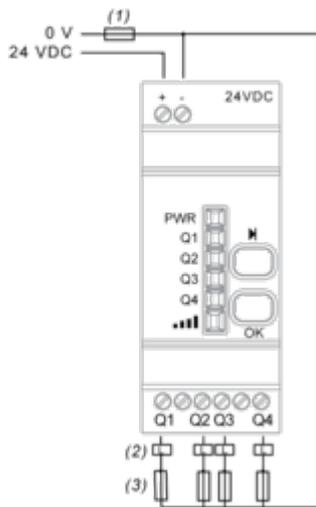
Receiver Mounting



Connections and Schema

Programmable Receiver

Wiring Diagram



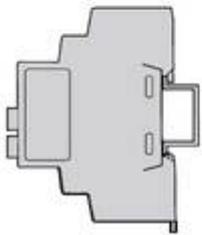
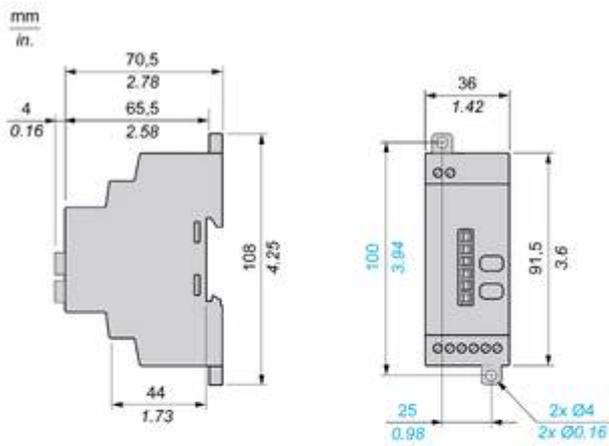
(1) 400 mA fast-blow fuse

(2) $I_{max} = 200 \text{ mA}$

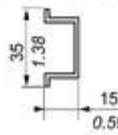
(3) $I_{max} = 300 \text{ mA}$

Technical Illustration

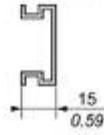
Dimensions



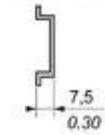
AM1 DE200
IEC/EN 60715



AM1 ED200



AM1 DP200



DZ5 MB200



Technical Illustration

Wiring diagram

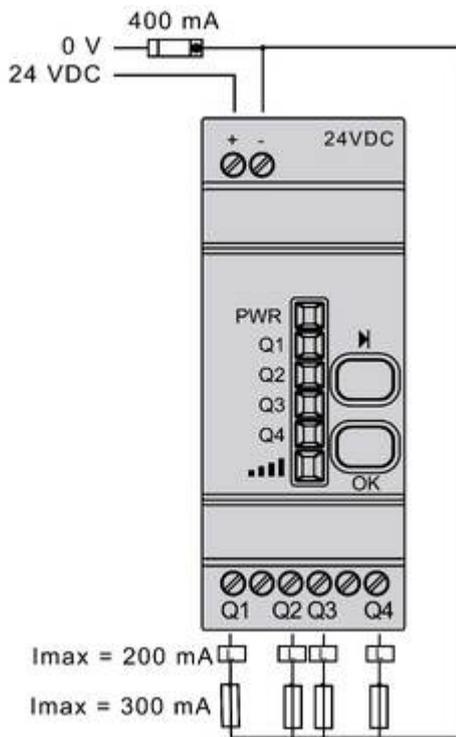


Image of product / Alternate images

Alternative





