Product data sheet
Characteristics

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



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 EN/IEC 60947-5-1 3 A 24 V DC UL 508 1.5 A 240 V AC EN/IEC 60947-5-1 3 A 120 V AC EN/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 EN/IEC 60947-5-1 DC-12 EN/IEC 60947-5-1
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) EN/IEC 60947-1

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
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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 EN/IEC 60715 Mounting plate
Rated short-duration power frequency withstand voltage	1.5 kV 50 Hz EN/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 EN/IEC 60947-5-1 UL 508 EN/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 EN/IEC 61000-6-2 Conducted and radiated emissionsclass B CISPR 22 Electrostatic discharge immunity test 8 kV in free air (in insulating parts)) IEC 61000-4-2 Electrostatic discharge immunity test 6 kV on contact (on metal parts)) IEC 61000-4-2 Susceptibility to electromagnetic fields 10 V/m 80...2000 MHz) IEC 61000-4-3 Susceptibility to electromagnetic fields 3 V/m 80...2700 MHz, distance = 20 m) IEC 61000-4-3 Electrical fast transient/burst immunity test 2 kV relay wires) IEC 61000-4-4 Electrical fast transient/burst immunity test 2 kV power supply wires) IEC 61000-4-4 1.2/50 µs shock waves immunity test 1 kV differential mode) IEC 61000-4-5 1.2/50 µs shock waves immunity test 2 kV common mode) IEC 61000-4-5 Conducted RF disturbances 10 V IEC 61000-4-6 Immunity to microbreaks and voltage drops 10 ms IEC 61000-4-11 Radiated emission ETSI EN 300 440-1 Conducted emission EN 300-489-1 Conducted emission ETSI EN 300 489-3 Radiated emission ETSI EN 300 440-2
Electrical durability	100000 cycles
Mechanical durability	1000000 cycles

Ordering and shipping details

Category	22470-XB5R WIRELESS PUSH BUTTON
Discount Schedule	I
GTIN	3606480521164
Nbr. of units in pkg.	1
Package weight(Lbs)	4.87 oz (138.0 g)
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
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)
Unit Type of Package 2	S03
Number of Units in Package 2	64
Package 2 Weight	21.03 lb(US) (9.541 kg)
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)

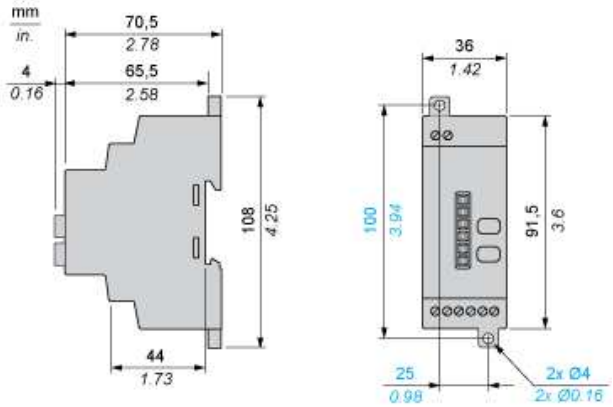
Offer Sustainability

Sustainable offer status	Green Premium product
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
REACh Regulation	REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

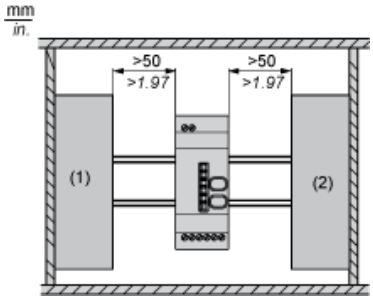
Contractual warranty

Warranty	18 months

Programmable Receiver

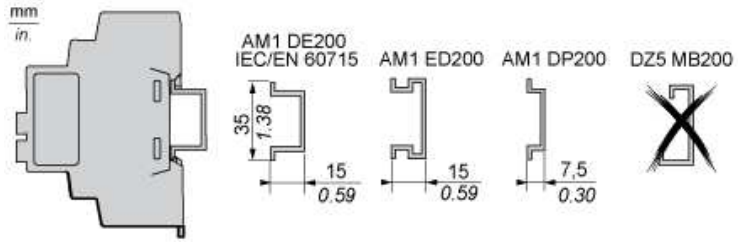


Receiver Clearance

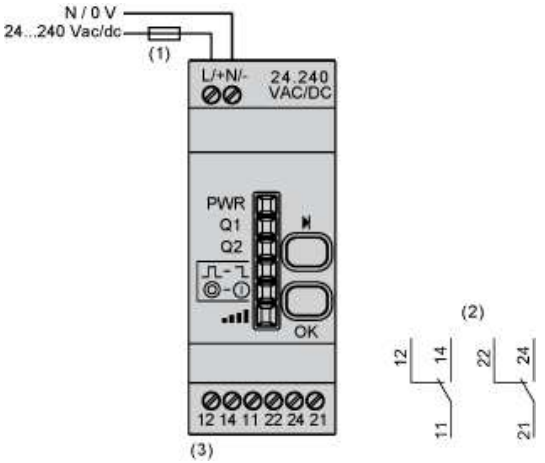


(1) Drive
(2) Power Supply or PLC

Receiver Mounting



Programmable Receiver



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