

Product data sheet

Characteristics

ZBRRD

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



Main

Commercial Status	Commercialised
Range of product	Harmony
Product or component type	Programmable receiver
Device short name	ZBRRD
Product specific application	Interface to actuators
Function of module	Monostable Bi-stable
Reset time	2 ms (time delay)

Complementary

Nominal output current	3 A at 240 V AC for CSA C22.2 No 14 3 A at 24 V DC for CSA C22.2 No 14 3 A at 240 V AC for UL 508 3 A at 120 V AC for EN/IEC 60947-5-1 1.5 A at 240 V AC for EN/IEC 60947-5-1 3 A at 24 V DC for UL 508 0.3 A at 48 V DC for EN/IEC 60947-5-1
Output type	2 relays
Output contacts	2 C/O
Input output isolation	Galvanic isolation
Time delay range	0.5 s (tolerance: - 15...15 %)
Switching capacity in VA	1250 VA
Maximum switching current	5 mA
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) at 2.4 GHz
Maximum sensing distance	131.23 ft (40 m) (transmitter in box type XAL D, receiver in metal enclosure and use relay-antenna) 82.02 ft (25 m) (transmitter in a plastic box type XAL D and receiver in a metal enclosure) 328.08 ft (100 m) (in free field)
Response time	< 30 ms (after transmitter clicks)
Channels utilisation	<= 32 per receiver
Utilisation category	DC-12 conforming to EN/IEC 60947-5-1 AC-15 : B300 conforming to EN/IEC 60947-5-1
Power consumption in W	<= 4 W
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

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Electrical connection	2 conductors cable 0...0 in ² (0.14...1.5 mm ²) - AWG26...AWG16 - flexible - with cable end conforming to IEC 60947-1 1 conductor cable 0...0.01 in ² (0.14...4 mm ²) - AWG26...AWG12 - flexible - with cable end conforming to IEC 60947-1 2 conductors cable 0...0 in ² (0.14...1.5 mm ²) - AWG26...AWG16 - solid - without cable end conforming to IEC 60947-1 1 conductor cable 0...0 in ² (0.14...2.5 mm ²) - AWG26...AWG14 - solid - without cable end conforming to IEC 60947-1
Tightening torque	4.42...8.85 lbf.in (0.5...1 N.m) conforming to EN/IEC 60947-1
Housing material	Self-extinguishing plastic
Status LED	1 LED, color: green and yellow for reception signal 2 LEDs, color: green for function mode 2 LEDs, color: green for relay ON 1 LED, color: green for power ON
Mounting support	Mounting plate 35 mm symmetrical DIN rail conforming to EN/IEC 60715
Rated short-duration power frequency withstand voltage	1.5 kV 50 Hz conforming to EN/IEC 60947-5-1
[Uimp] rated impulse withstand voltage	4 kV
Surge withstand	2 kV (common mode) conforming to IEC 61000-4-5 1 kV (differential mode) conforming to IEC 61000-4-5
Width	1.42 in (36 mm)
Height	4.25 in (108 mm)
Depth	2.95 in (75 mm)
Product weight	0.29 lb(US) (0.13 kg)

Environment

Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 UL 508 CSA C22.2 No 14
Radio agreement	ICASA FCC ARIB T66 ANATEL SRRC RSS
Product certifications	CCC CSA C-Tick GOST UL
Marking	CE
Ambient air temperature for storage	-40...158 °F (-40...70 °C)
Relative humidity	90 % at -4...131 °F (-20...55 °C) without condensation conforming to EN 300-440-1
Vibration resistance	2 gn (f= 8...150 Hz) conforming to IEC 60068-2-6 +/- 7.5 mm (f= 5...14 Hz) conforming to IEC 60068-2-6
Shock resistance	10 gn (duration = 16 ms) 6000 shocks conforming to IEC 60068-2-27
IP degree of protection	IP20 on terminals IP20 on casing conforming to IEC 60529
Pollution degree	2 conforming to IEC 60664-1
Overvoltage category	II conforming to IEC 60664-1
Insulation resistance	> 500 MOhm at 500 V DC conforming to NF C 20-030
[Ui] rated insulation voltage	250 V conforming to IEC 60664-1

Electromagnetic compatibility	<p>Radiated emission conforming to EN 300-440-2 Conducted emission conforming to EN 300-489-3 Conducted emission conforming to EN 300-489-1 Radiated emission conforming to EN 300-440-1 Immunity to microbreaks and voltage drops (test level: 10 ms) conforming to IEC 61000-4-11 Conducted RF disturbances (test level: 10 V) conforming to IEC 61000-4-6 1.2/50 µs shock waves immunity test (test level: 2 kV)common mode conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test (test level: 1 kV)differential mode conforming to IEC 61000-4-5 Electrical fast transient/burst immunity test (test level: 2 kV)power supply wires conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test (test level: 2 kV)relay wires conforming to IEC 61000-4-4 Susceptibility to electromagnetic fields (test level: 3 V/m)80...2700 MHz, distance = 20 m conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields (test level: 10 V/m)80...2000 MHz conforming to IEC 61000-4-3 Electrostatic discharge immunity test (test level: 6 kV)on contact (on metal parts) conforming to IEC 61000-4-2 Electrostatic discharge immunity test (test level: 8 kV)in free air (in insulating parts) conforming to IEC 61000-4-2 Conducted and radiated emissions , class B conforming to CISPR 22 Immunity for industrial environments conforming to EN/IEC 61000-6-2</p>
Electrical durability	100000 cycles
Mechanical durability	1000000 cycles

Ordering and shipping details

Category	22470 - XB5R WIRELESS PUSH BUTTON
Discount Schedule	I
GTIN	00785901298625
Nbr. of units in pkg.	1
Package weight(Lbs)	0.29
Returnability	Y
Country of origin	ID