# Product data sheet

Specifications

## Wireless and batteryless transmitter, Harmony XB5R, plastic, black, 2 simples action

ZBRM22A0

## Main

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|---|---|
| **Range Of Product** | Harmony XB5R |
| **Product Or Component Type** | Wireless and batteryless transmitter |
| **Device Short Name** | XB5R |
| **Contact Operation** | 2 simple action push-button |
| **Bezel Material** | Plastic |
| **Fixing Collar Material** | Plastic |
| **Mounting Diameter** | 22 mm |

## Complementary

| | |
|---|---|
| **Kit Composition** | 1 set of caps<br>1 handy box<br>2 transmitter<br>2 push-button head diameter: 22 mm<br>2 fixing collars |
| **Shape Of Signaling Unit Head** | Round |
| **Type Of Operator** | spring return push-button with transmitter |
| **Operator Profile** | Flush |
| **Operator Additional Information** | Set of caps |
| **Net Weight** | 0.2 kg |
| **Mechanical Durability** | 1000000 cycles |
| **Operating Travel** | 4.3 mm (total travel) |
| **Operating Force** | 25 N C/O changing electrical state |
| **Shock Resistance** | 25 gn (duration = 6 ms) for 6000 shocks conforming to IEC 60068-2-27<br>30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC 60068-2-27<br>50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27 |
| **Mechanical Robustness** | Free fall resistance 1000 mm conforming to EN/IEC 60068-2-32 |
| **Communication Port Protocol** | Zigbee green power at 2.4 GHz |
| **Maximum Sensing Distance** | 100 m in free field<br>25 m transmitter in the handy box and receiver in a metal enclosure<br>300 m transmitter in the handy box, receiver in metal enclosure and use relay-antenna |
| **Acquisition Time** | 2 ms |
| **Response Time** | < 2 ms |
| **Emission Power** | 3 mW |

# Environment

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|---|---|
| **Ambient Air Temperature For Storage** | -40…70 °C |
| **Ambient Air Temperature For Operation** | -25…55 °C |
| **Ip Degree Of Protection** | IP65 (front face) conforming to IEC 60529<br>IP65 (front face) conforming to UL Type 12 |
| **Ik Degree Of Protection** | IK03 conforming to IEC 50102 |
| **Relative Humidity** | 95 % at 70 °C without condensation |
| **Vibration Resistance** | 5 gn (f= 11…500 Hz) conforming to IEC 60068-2-6<br>+/- 10 mm (f= 2…11 Hz) conforming to IEC 60068-2-6 |
| **Electromagnetic Compatibility** | Electrostatic discharge immunity test - test level: 8 kV (in free air (in insulating parts)) conforming to IEC 61000-4-2<br>Electrostatic discharge immunity test - test level: 4 kV (on contact (on metal parts)) conforming to IEC 61000-4-2<br>Susceptibility to electromagnetic fields - test level: 20 V/m (80...3000 MHz) conforming to IEC 61000-4-3<br>Susceptibility to electromagnetic fields - test level: 6 V/m (3000...6000 MHz, distance = 20 m) conforming to IEC 61000-4-3 |
| **Radio Agreement** | RSS conforming to UL 508<br>ARIB T66 conforming to CSA C22.2 No 14<br>ICASA<br>ANATEL<br>FCC |
| **Standards** | EN/IEC 60947-5-1<br>CSA C22.2 No 14<br>EN/IEC 60947-1<br>UL 508 |
| **Product Certifications** | C-Tick<br>CSA<br>BT 2006/95/EC<br>EAC<br>UL<br>CCC |
| **Directives** | 2004/108/EC - electromagnetic compatibility<br>1999/5/EC - R&TTE directive |

# Packing Units

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|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 6.5 cm |
| **Package 1 Width** | 6.5 cm |
| **Package 1 Length** | 16.3 cm |
| **Package 1 Weight** | 232.0 g |

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# Sustainability

**Green Premium$^{TM}$ 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-$CO_2$ 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 ›

## Well-being performance

✅ Mercury Free

✅ Rohs Exemption Information      Yes

| | |
|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Pro-active compliance (Product out of EU RoHS legal scope) |
| **China Rohs Regulation** | China RoHS declaration |
| **California Proposition 65** | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |

Dimensions Drawings

**Dimensions**

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**Wireless and Batteryless Pushbutton**

Plasctic Mobile Box for Mobile or Fix Use - 2 Functions

Apr 19, 2024