Harmony XB5R plastic and XB4R metal

Wireless and batteryless pushbuttons
Quick access to product information

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- Characteristics, Dimensions and drawings, Mounting and clearance, Connections and schemas, Performance curves
- Product image, Instruction sheet, User guide, Product certifications, End of life manual

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> Locate the training center with the selector tool, using this [link](#)
General contents

General presentation and selection guide . .

XB5R and XB4R wireless & batteryless pushbuttons . . . . . . . . . . . . . . . . .

ZBRN1 and ZBRN2 Harmony hub . . . . .

Product reference index . . . . . . . . . .
Contents

Control and signaling units Ø 22
Harmony XB5R plastic and XB4R metal
Wireless and batteryless pushbuttons
Wireless and batteryless ecosystem devices

General presentation and selection guide

- Harmony XB4R and XB5R
  - Installation and maintenance ........................................ page 1/2
  - Performance ................................................................. page 1/3
  - Range of products .......................................................... page 1/3

- Harmony Hub ZBRN1 and ZBRN2
  - Installation and maintenance ........................................ page 1/4
  - Performance and integration ...................................... page 1/4
  - Architecture solutions .............................................. page 1/6
  - Range of products ........................................................ page 1/7

Selection guide .......................................................... page 1/8
General presentation

Control and signaling units Ø 22
Harmony XB5R plastic and XB4R metal
Wireless and batteryless pushbuttons

Installation made easy with Harmony XB5R plastic and XB4R metal wireless and batteryless pushbuttons

The Harmony XB5R plastic and XB4R metal range of wireless and batteryless pushbuttons are used for various building utilities (automatic doors, lighting, etc.) and industrial applications (conveying systems, automotive, MMM, logistics, food and beverage). They are based on two types of device - transmitter and receiver - which communicate via 2.4 GHz radio transmission (free worldwide band).

Simplified installation

> Lower installation costs and time
> No setup needed due to ready-to-use Plug-and-Play package
> Freedom of mobility around the machine or process
> Ideal solution when you need to add or move a control function

Easy maintenance

> Requires no battery maintenance and helps to ensure permanent availability
> Maximum availability of control functions
> Eco-friendly Green technology
> Minimizes post-installation maintenance

Product Selector

Web digital selector
Click to open the selector

Designed for industrial environment with proven robustness

> High resistance to contamination from dust (no cable entry)
> No risk of cable damage or loose screws on the transmitter
> Ø 22 mm/0.866 in. operating head available in plastic (ZB5) and metal (ZB4) and Ø 40 mm/1.575 in. black spring return mushroom head allowing operation with gloves
> For automatic doors, the rope pull switch command can be set anywhere
> Suitable for the most demanding environments, depending on the model, up to IP 66, for external use from -25 to 70 °C/-13 to 158 °F

Easy integration into automation products

No battery to replace, recycle & recharge

Energy efficient due to non-current consuming transmitter

Robust performance
General presentation (continued)

Control and signaling units Ø 22
Harmony XB5R plastic and XB4R metal
Wireless and batterless pushbuttons

Assured performance according to distance

- 25 m/82 ft with the receiver installed in a metal electrical cabinet
- Boosted to more than 250 m/820 ft with the use of an external relay antenna with the receiver installed in a metal electrical cabinet
- 100 m/328 ft in free space

> 100 m
> 50 m
> 25 m
> Antenna
> Receiver in a metal cabinet (1)

A worldwide range

- From individual products to ready-to-use packs
- Designed to meet the requirements of the most common applications
- Simple to order with only one reference number
- Easy to install with factory pre-programmed transmitter and receiver

Wide range of XB5R/XB4R individual products

Simple to order with ready-to-use packs

(1) Only one transmitter per receiver
(2) Up to 32 transmitters per receiver


### General presentation (continued)

**Control and signaling units Ø 22**

**Harmony XB5R plastic and XB4R metal**

**Wireless and batteryless ecosystem devices**

**Harmony Hub ZBRN1 and ZBRN2**

The Harmony Hub range of wireless and batteryless ecosystem devices are used for various building utilities (automatic doors, lighting, etc.) and industrial applications (conveying systems, automotive, MMM, logistics, food and beverage, monitoring industrial equipment). These devices communicate via 2.4 GHz radio transmission (free worldwide band).

#### Non-intrusive installation

- Lower installation costs and time
- Freedom of mobility around the machine or process
- Ideal solution when you need to add or move a monitoring function

#### Easy maintenance

- Requires no battery maintenance and helps to ensure permanent availability
- Maximum availability of control functions
- Eco-friendly Green technology
- Minimizes post-installation maintenance

#### Assured performance according to distance

The possible distance (1) between a transmitter and the Harmony Hub is approximately:

- 100 m/328 ft when there are no obstacles
- 250 m/984 ft if a relay antenna is located between the transmitter and the Harmony Hub (installed in a metal housing or in a closed metal enclosure)
- 60 m/197 ft if an external antenna is connected to the Harmony Hub
- 25 m/82 ft with the Harmony Hub installed in a metal housing or in a closed metal enclosure

(1) Typical values, which can be affected by the application environment

(2) Reduction in distance when the Harmony Hub is placed in a metal housing or in a closed metal enclosure

---

**Non-intrusive installation made easy with Harmony Hub ZBRN1 and ZBRN2 wireless ecosystem devices**

**Ecostruxure Apps, Analytics & Services**

Open to third party

**Harmony Hub**

A box to connect wireless devices to exchange data to upper levels

**Non-intrusive wireless system**

Set of operator interfaces and secondary sensors

**Harmony Hub schematic diagram**

---

**Easy installation**

**Web digital selector**

Click to open the selector

---

**Product Selector**

---

**Energy efficient due to non-current consuming transmitter**

---

**Enables end users to considerably reduce installation and maintenance costs**

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---

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Control and signaling units Ø 22
Harmony XB5R plastic and XB4R metal
Wireless and batteryless ecosystem devices
Harmony Hub ZBRN1 and ZBRN2

Smooth integration
Integration into an industrial PC (IT/OT box) via Ethernet link with 2 RJ45.

Magelis iPC and Edge Box runs Node-RED to wire devices on the Industrial Internet of Things. Node-RED is a simple, open source graphical programming tool for designing the communication data flow from OT to IT. To enable connectivity to the EcoStruxure platform, you need to have an industrial PC (IT/OT box) to push your collected physical signals and ensure immediate access to relevant data. This data-driven approach helps to improve a company’s productivity and efficiency.

Compatible Schneider Electric commercial references: HMIBMO*
For more information, go to: www.schneider-electric.com/hmi

Simple and economic with up to 60 transmitters connected on the same bus

Double RJ45 enables network continuity without using hubs or switches

20% lower installation costs compared to a hard-wired solution
General presentation
(continued)

Control and signaling units Ø 22
Harmony XB5R plastic and XB4R metal
Wireless and batteryless ecosystem devices
Harmony Hub ZBRN1 and ZBRN2

Architecture solutions

- Call to maintenance EcoStruxure architecture

With Harmony Hub ecosystem devices, there are multiple use cases:

- Pushbutton to call for maintenance, call for material, call for finished goods, and call for final products inspection
- Easily open internal automatic doors
- Identify which Emergency stop has been activated
- Help operators to react quickly in case of an anomaly
- Identify anomalies with the predefined threshold
General presentation
(continued)

Control and signaling units Ø 22
Harmony XB5R plastic and XB4R metal
Wireless and batteryless ecosystem devices
Harmony Hub ZBRN1 and ZBRN2

Wide range of product compatibility
Wide range of individual products compatible with the Harmony Hub (1)

Pushbuttons
- ZB5RTA
- ZBRT
- ZBRM
- ZBRP1
- ZBSRT

Limit switches
- XCKW
- XCKW
- XCMW

Sensors
- A9XST114
- A9MEM
- LV4340

Wireless receiver
- ZBRRH

(1) Please refer to the reference tables on pages 3/3, 3/4, and 3/5.

Enhanced wireless ecosystem devices
## Control and signaling units

### Selection guide

<table>
<thead>
<tr>
<th>Product type</th>
<th>Pilot lights</th>
<th>Pushbuttons, selector switches, and pilot lights</th>
<th>Biometric switches</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LED pilot lights</td>
<td>Pushbuttons</td>
<td>Multiple-headed pushbuttons Emergency Stop pushbuttons Selector switches and key switches Illuminated pushbuttons Pilot lights Flash mounted pushbuttons, selector switches, and pilot lights</td>
</tr>
<tr>
<td>Ø 8 mm and Ø 12 mm/0.315 in. and 0.472 in.</td>
<td>Ø 16 mm/0.630 in.</td>
<td>Ø 22 mm/0.866 in.</td>
<td>Ø 22 mm/0.866 in.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description of range</th>
<th>Features</th>
<th>Products</th>
<th>Shape of head</th>
<th>Mounting or cut-out for fixing</th>
<th>Degree of protection</th>
<th>Cabling</th>
<th>Mounting</th>
<th>Panel thickness</th>
<th>Type references</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 8 mm and Ø 12 mm/0.315 in. and 0.472 in.</td>
<td>Ø 16 mm/0.630 in.</td>
<td>Ø 22 mm/0.866 in.</td>
<td>Ø 22 mm/0.866 in.</td>
<td>Ø 16 in/Ø 22 mm/0.630 or 0.866 in.</td>
<td>IP40 (IP45 with seal) IP65 IP66, IP67, IP68, and IP69K</td>
<td>Fast connectors Solder pins for printed circuit boards Fast connector socketed</td>
<td>1…-8 mm/0.039…0.315 in.</td>
<td>XVLA, XB6, XB6E, XB4, XB5, XB5S</td>
<td></td>
</tr>
</tbody>
</table>

| Ø 16 mm/0.630 in. | Ø 22 mm/0.866 in. | Ø 22 mm/0.866 in. | Ø 16 in/Ø 22 mm/0.630 or 0.866 in. | IP45 (control buttons and pilot lights) IP54 (Emergency switching off pushbuttons) | IP65 | Fasten connectors Spring clamp terminal connections Fossil connectors Connector with adapter for printed circuit board | 1…-8 mm/0.039…0.236 in. | XBSR, XBR, XB7, XD4PA, XD2GA, XD5PA, 9001K, 9001SK |

(1) Flush mounted control and signaling units are available for Harmony XB4 and XB5 ranges only.
(2) Compatible with Magelis PC, STU, OT, GHO, GT (except GT1000 series), GK, GH, and GTO models.
(3) Wireless and batteryless pushbutton and receiver ready-paired at the factory.

### Ready-to-use packs (1) and "components" range

<table>
<thead>
<tr>
<th>Products</th>
<th>Complete units or sub-assemblies (body + head)</th>
<th>Complete units or sub-assemblies (body + front panel + head)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monolithic compact, or low consumption</td>
<td>Complete units or sub-assemblies (body + head)</td>
<td>Complete units or sub-assemblies (body + front panel + head)</td>
</tr>
<tr>
<td>Monolithic, compact, or low consumption</td>
<td>Complete units or sub-assemblies (body + head)</td>
<td>Complete units or sub-assemblies (body + front panel + head)</td>
</tr>
</tbody>
</table>

| Metal, chromium plated, or double insulated, black | Double insulated, dark gray or white for pilot lights | Metal, chromium plated, or double insulated, black |

<table>
<thead>
<tr>
<th>Transmitter with circular head</th>
<th>Circular</th>
<th>Circular</th>
<th>Hexagonal</th>
<th>Square</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 22 mm/0.866 in.</td>
<td>Ø 30 mm/1.181 in.</td>
<td>Ø 16 in/Ø 22 mm/0.630 or 0.866 in.</td>
<td>IP65 (control buttons and pilot lights) IP54 (Emergency switching off pushbuttons)</td>
<td>IP65 IP66 IP67 IP68</td>
</tr>
</tbody>
</table>

Enclosure type 12

<table>
<thead>
<tr>
<th>Enclosure type 3 (pushbuttons and Emergency stop) and 4 (pilot lights)</th>
<th>Enclosure type 4, 4X and 13 (9001SK)</th>
<th>Enclosure type 4 and 13 (9001SK)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure type 12</td>
<td>Enclosure type 4 and 13 (9001SK)</td>
<td>Enclosure type 4, 4X and 13 (9001SK)</td>
</tr>
</tbody>
</table>

Wireless (transmitter) Through cable (receiver) Screw and captive clamp terminal connections Fossil clip connections (pilot lights) Screw and captive clamp terminal connections

| Ø 8 mm/0.315 in. | Ø 16 mm/0.630 in. | Ø 22 mm/0.866 in. | Ø 22 mm/0.866 in. | Ø 16 in/Ø 22 mm/0.630 or 0.866 in. | IP65 (control buttons and pilot lights) IP54 (Emergency switching off pushbuttons) | IP65 IP66 IP67 IP68 |

For Harmony XB6 only.

(4) For Harmony XB6 only.

For Harmony XB6E only.
Control and signaling units Ø 22
Harmony XB5R plastic and XB4R metal
Wireless and batteryless pushbuttons

Harmony XB5R and XB4R wireless and batteryless pushbuttons

- Presentation ........................................................................................................... page 2/2
- Description
  - “Ready-to-use packs” ranges ........................................................................ page 2/3
  - “Components” range ...................................................................................... page 2/4
- References
  - Ready-to-use packs ....................................................................................... page 2/5
  - Transmitter components for wireless and batteryless pushbuttons .................. page 2/6
  - Transmitter components for wireless and batteryless rope pull switch .............. page 2/7
  - Configurable receivers .................................................................................... page 2/7
  - Accessories ...................................................................................................... page 2/8
**Presentation**

**Control and signaling units Ø 22**

Harmony XB5R plastic and XB4R metal

Wireless and batteryless pushbuttons

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The Harmony wireless and batteryless pushbuttons range enables remote control of a relay (receiver) by means of a pushbutton (transmitter). The control is by radio transmission where the transmitter is equipped with an electric generator that converts mechanical energy, produced when the pushbutton is pressed, to electrical energy. A radio-encoded message with a unique ID code is sent as a single pulse to one or more receivers located several dozen feet away (see Figure A). A single receiver can also be actuated by up to 32 different transmitters (see Figure B).

In order to avoid any conflict of multiple transmission from different transmitters, a minimum time frame of 10 ms is required between each radio transmission. Depending on the application, a relay-antenna can be used to get round an obstacle that impedes transmission or to increase the range (see Figure A and Figure B).

The possible distance (1) between a transmitter and a receiver is approximately:
- 100 m/328 ft where there are no obstacles
- 25 m/82 ft if the receiver is installed in a metal housing or in a closed metal enclosure
- 300 m/984 ft if a relay-antenna is located between the transmitter and the receiver (receiver installed in a metal housing or in a closed metal enclosure)

These distances could be drastically reduced in industrial environments where factors such as radio interference, obstacles, or electromagnetic interference may impede the signal. As a consequence, some radio frames may not be received by the receiver.

The wireless and batteryless pushbutton reduces installation time and cost since no wiring and associated equipment is required between the transmitters and the control panel.

This technology also allows an operator to be mobile or to have a control mounted on board a vehicle (trolley, truck, etc.). The pushbutton is always available and requires no maintenance (no battery needed).

The mobile box ZBRM21 or ZBRM22 associated with its support function is adapted for static and mobile applications mounted on vehicles.

The range also includes a new wireless and batteryless rope pull switch designed for easy operation of automatic doors. This switch can be either mounted directly on the panel or between two ropes close to the automatic door. This enables the forklift driver or pedestrian to open or close the door by pulling the rope, where the mechanical energy produced is transmitted as a radio message to the receiver in the control panel (see Figure C).

This technology (radio-encoded message sent as a single pulse) cannot be used for hoisting applications ("up/down", "right-left" movements, etc.) or safety applications (Emergency Stop pushbuttons, etc.). For these applications, it is recommended that Harmony XB4 and XB5 wired pushbuttons or the XAC range of pendant control stations be used.

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**Environment**

The performance features of the XB5R range conform to the following specifications:

- International standards and approvals:
  - Wireless and batteryless pushbuttons: EN/IEC 60947-1, EN/IEC 60947-5-1, UL 508, CSA C22-2 No. 14

- International certifications: UL, CSA, C-Tick, GOST, CCC

- Radio agreements: ANATEL (Brazil), SRRC (China), FCC (USA), RSS (Canada), ICASA (South Africa), ARIB T66 (Japan)

For more technical information, please refer to our website [www.schneider-electric.com](http://www.schneider-electric.com).

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(1) Typical values, which can be affected by the application environment.
Description of the “Ready-to-use pack” ranges (1)

Pack with configurable receiver (see Figure D)

This pack comprises:
1 A transmitter with a fixing collar for assembly with a pushbutton head and mounting in a Ø 22 mm/0.866 in. hole
2 A flush, spring return, plastic or metal pushbutton head
3 A set of 10 different colored caps that can be clipped onto the pushbutton head
4 A 24...240 V\(\pm\) configurable receiver, 2 relay outputs, with 2 buttons (teach and parameter setting) 5 and 6 indicating LEDs

Pack with non-configurable receiver (see Figure E) (1)

This pack comprises:
1 A transmitter with a fixing collar for assembly with a pushbutton head and mounting in a Ø 22 mm/0.866 in. hole
2 A flush, spring return, plastic or metal pushbutton head
3 A black cap that can be clipped onto the pushbutton head
4 A 24 V\(\mp\) non-configurable receiver, 1 relay output, without indicating LED or button

Pack with handy box and configurable receiver (see Figure F)

This pack comprises:
1 A handy box containing a wireless and batteryless pushbutton with plastic head
2 A set of 10 different colored caps that can be clipped onto the pushbutton head
3 A 24...240 V\(\pm\) configurable receiver, 2 relay outputs, with 2 buttons (teach and parameter setting) 4 and 6 indicating LEDs

(1) Wireless and batteryless pushbutton and the receiver are factory-paired.
**Description (continued)**

Control and signaling units Ø 22
Harmony XB5R plastic and XB4R metal
Wireless and batteryless pushbuttons

**Description of the “Ready-to-use pack” ranges (1) (continued)**

Pack with handy box and non-configurable receiver (see Figure G)

This pack comprises:

1. A handy box containing a wireless and batteryless pushbutton with plastic head
2. A black cap that can be clipped onto the pushbutton head
3. A 24 V non-configurable receiver, 1 relay output, without indicating LED or button

**Description of the “Components” range**

Components are sold separately to allow completion of existing applications or creation of specific applications:

1. A transmitter for assembly with pushbutton head and mounting in a Ø 22 mm/0.866 in. hole
2. A flush, spring return, plastic or metal pushbutton head
3. A plastic mushroom head
4. A plastic or metal fixing collar
5. An empty handy box
6. A set of 10 different colored caps or a set of 10 same color caps that can be clipped onto the pushbutton head
7. Empty plastic boxes (1 or 2 cut-outs) for wall mounting or on-board applications
8. A 24...240 V configurable receiver, 2 relay outputs, with 2 buttons (teach and parameter setting) and 6 indicating LEDs
9. A 24 V configurable receiver, 4 PNP outputs, with 2 buttons (teach and parameter setting) and 6 indicating LEDs
10. A relay-antenna
11. A rope pull switch
12. ZBRM21 mobile box for 1 pushbutton
13. ZBRM22 mobile box for 2 pushbuttons
14. ZBRACS support for mobile box

*(1)* Wireless and batteryless pushbutton and the receiver are factory-paired.

---

*Figure G: Pack with transmitter in handy box and non-configurable receiver*
## Control and signaling units Ø 22

Harmony XB5R plastic and XB4R metal Wireless and batteryless pushbuttons

### Ready-to-use packs (1)

<table>
<thead>
<tr>
<th>Description</th>
<th>Transmitter type</th>
<th>Voltage receiver (V)</th>
<th>Receiver type</th>
<th>Reference</th>
<th>Weight (kg/lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packs comprising: - 1 wireless and batteryless pushbutton assembled on fixing collar - 1 receiver</td>
<td>Wireless and batteryless pushbutton + Ø 22 mm/0.866 in. plastic head + 1 set of 10 different colored caps (1 cap to be selected and attached)</td>
<td>24...240</td>
<td>Configurable receiver ZBRRA equipped with: - choice of 3 output functions (monostable, bistable, stop/start) - 2 relay outputs type RT 3A (2) - 2 buttons (teach, parameter setting) - 6 indicating LEDs (power ON, function modes, output status, signal strength)</td>
<td>XB5RFA02</td>
<td>0.230/0.507</td>
</tr>
<tr>
<td></td>
<td>Wireless and batteryless pushbutton + Ø 22 mm/0.866 in. metal head + 1 set of 10 different colored caps (1 cap to be selected and attached)</td>
<td>24...240</td>
<td>Configurable receiver ZBRRA equipped with: - choice of 3 output functions (monostable, bistable, stop/start) - 2 relay outputs type RT 3A (2) - 2 buttons (teach, parameter setting) - 6 indicating LEDs (power ON, function modes, output status, signal strength)</td>
<td>XB4RFA02</td>
<td>0.245/0.540</td>
</tr>
<tr>
<td></td>
<td>Wireless and batteryless pushbutton + Ø 22 mm/0.866 in. plastic head</td>
<td>24...240</td>
<td>Non-configurable receiver equipped with monostable output function: - 1 relay output type RT 3A - without button - without indicating LED</td>
<td>XB5RFB01</td>
<td>0.230/0.507</td>
</tr>
<tr>
<td></td>
<td>Wireless and batteryless pushbutton + Ø 22 mm/0.866 in. metal head + 1 black cap not attached</td>
<td>24...240</td>
<td>Non-configurable receiver equipped with monostable output function: - 1 relay output type RT 3A - without button - without indicating LED</td>
<td>XB4RFB01</td>
<td>0.245/0.540</td>
</tr>
</tbody>
</table>

| Packs comprising: - 1 wireless and batteryless pushbutton assembled on fixing collar, in handy box (3) - 1 receiver | Wireless and batteryless pushbutton + Ø 22 mm/0.866 in. plastic head mounted in a handy box + 1 set of 10 different colored caps (1 cap to be selected and attached) | 24...240 | Configurable receiver ZBRRA equipped with: - choice of 3 output functions (monostable, bistable, stop/start) - 2 relay outputs type RT 3A (2) - 2 buttons (teach, parameter setting) - 6 indicating LEDs (power ON, function modes, output status, signal strength) | XB5RMA04 | 0.250/0.551 |
| | Wireless and batteryless pushbutton + Ø 22 mm/0.866 in. plastic head mounted in a handy box + 1 black cap not attached | 24...240 | Configurable receiver ZBRRA equipped with: - choice of 3 output functions (monostable, bistable, stop/start) - 2 relay outputs type RT 3A (2) - 2 buttons (teach, parameter setting) - 6 indicating LEDs (power ON, function modes, output status, signal strength) | XB5RMB03 | 0.250/0.551 |

(1) Wireless and batteryless pushbutton and the receiver are factory-paired.
(2) Receivers are supplied set to monostable output function. The user can configure it to bistable and stop/start functions.
(3) Supplied with a magnet to be stuck on by the customer.
## Transmitter components for wireless and batteryless pushbuttons

<table>
<thead>
<tr>
<th>Description</th>
<th>Type of push</th>
<th>Color</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter for wireless and batteryless pushbutton (1) (2)</td>
<td>1 radio frame sent at the push of the button</td>
<td>–</td>
<td>ZBRT1</td>
<td>0.025/0.055</td>
</tr>
<tr>
<td></td>
<td>1 radio frame sent at the push of the button</td>
<td>–</td>
<td>ZBRT2 (5)</td>
<td>0.025/0.055</td>
</tr>
<tr>
<td>Spring return pushbutton heads for transmitter ZBRT1</td>
<td>Flush (plastic)</td>
<td>Without cap (3)</td>
<td>ZB5RZA0</td>
<td>0.015/0.033</td>
</tr>
<tr>
<td></td>
<td>Flush (metal)</td>
<td>Without cap (3)</td>
<td>ZB4RZA0</td>
<td>0.030/0.066</td>
</tr>
<tr>
<td>Spring return mushroom head for transmitter ZBRT1</td>
<td>Mushroom 40 mm/1.58 in. (plastic)</td>
<td>Black</td>
<td>ZB5RZC2</td>
<td>0.025/0.055</td>
</tr>
<tr>
<td>Wireless and batteryless pushbutton including:</td>
<td>Mushroom 40 mm/1.58 in. (plastic)</td>
<td>Black</td>
<td>ZB5RTC2</td>
<td>0.055/0.127</td>
</tr>
<tr>
<td>- a transmitter equipped with fixing collar</td>
<td>Flush (plastic)</td>
<td>White</td>
<td>ZB5RTA1</td>
<td>0.045/0.099</td>
</tr>
<tr>
<td></td>
<td>Black</td>
<td>ZB5RTA2</td>
<td>0.045/0.099</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>ZB5RTA3</td>
<td>0.045/0.099</td>
<td></td>
</tr>
<tr>
<td></td>
<td>White I on green background</td>
<td>ZB5RTA331</td>
<td>0.045/0.099</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>ZB5RTA4</td>
<td>0.045/0.099</td>
<td></td>
</tr>
<tr>
<td></td>
<td>White O on red background</td>
<td>ZB5RTA432</td>
<td>0.045/0.099</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yellow</td>
<td>ZB5RTA5</td>
<td>0.045/0.099</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blue</td>
<td>ZB5RTA6</td>
<td>0.045/0.099</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flush (metal)</td>
<td>White</td>
<td>ZB4RTA1</td>
<td>0.085/0.187</td>
</tr>
<tr>
<td></td>
<td>Black</td>
<td>ZB4RTA2</td>
<td>0.085/0.187</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>ZB4RTA3</td>
<td>0.085/0.187</td>
<td></td>
</tr>
<tr>
<td></td>
<td>White I on green background</td>
<td>ZB4RTA331</td>
<td>0.085/0.187</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>ZB4RTA4</td>
<td>0.085/0.187</td>
<td></td>
</tr>
<tr>
<td></td>
<td>White O on red background</td>
<td>ZB4RTA432</td>
<td>0.085/0.187</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yellow</td>
<td>ZB4RTA5</td>
<td>0.085/0.187</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blue</td>
<td>ZB4RTA6</td>
<td>0.085/0.187</td>
<td></td>
</tr>
</tbody>
</table>

(1) Fixing collar ZB5AZ009 (plastic) or ZB4BZ009 (metal) to be ordered separately.
(2) Only heads ZB4RZA0 and ZB5RZA0 are mechanically compatible.
(3) Cap to be ordered separately. Refer to the “Accessories” table on page 2/8.
(4) This cap is factory-assembled and cannot be removed (risk of damage).
(5) This transmitter is only compatible with receiver ZBRT1 version ≥ 2.0, relay antenna ZBRA1 version ≥ 2.0, and access point ZBRN version > 1.2.
Transmitter components for wireless and batteryless rope pull switch

<table>
<thead>
<tr>
<th>Description</th>
<th>Application</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rope pull switch with wireless and batteryless transmitter</td>
<td>For automatic doors: The rope pull switch sends a radio message to the receiver in the control panel to open and close the door.</td>
<td>ZBRP1</td>
<td>0.150/0.331</td>
</tr>
<tr>
<td>Rope pull switch with wireless and batteryless transmitter, and a universal support accessory ZBRAUS2</td>
<td>For automatic doors: The rope pull switch sends a radio message to the receiver in the control panel to open and close the door.</td>
<td>XB5RP1US2</td>
<td>0.259/0.571</td>
</tr>
</tbody>
</table>

Configurable receivers

<table>
<thead>
<tr>
<th>Description</th>
<th>Output function</th>
<th>Output type</th>
<th>Receiver voltage V</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configurable receivers (6) equipped with: - 2 buttons (teach and parameter setting) - 6 indicating LEDs (power ON, function modes, output status, signal strength)</td>
<td>Monostable</td>
<td>4 PNP outputs, 200 mA /24 V</td>
<td>24 ± 1</td>
<td>ZBRRC</td>
<td>0.130/0.287</td>
</tr>
<tr>
<td>Monostable, Bistable</td>
<td>2 relay outputs type RT 3A (7)</td>
<td></td>
<td>24...240 °C</td>
<td>ZBRRD</td>
<td>0.130/0.287</td>
</tr>
<tr>
<td>Monostable, Bistable, Stop/Start</td>
<td>2 relay outputs type RT 3A (7)</td>
<td></td>
<td>24...240 °C</td>
<td>ZBRRRA</td>
<td>0.130/0.287</td>
</tr>
</tbody>
</table>

(1) Fixing collar ZB5AZ009 (plastic) or ZB4BZ009 (metal) to be ordered separately.
(2) Only heads ZB4RZA0 and ZB5RZA0 are mechanically compatible.
(3) Cap to be ordered separately. Refer to the “Accessories” table on page 2/8.
(4) This cap is factory-assembled and cannot be removed (risk of damage).
(5) This transmitter is only compatible with receiver ZBRR version ≥ 2.0, relay antenna ZBRA1 version ≥ 2.0, and access point ZBRN version > 1.2.
(6) Each receiver can be actuated by up to 32 transmitters.
(7) Receivers are supplied set to monostable output function. The user can configure it to bistable and stop/start functions.
## Accessories

Caps for Harmony pushbutton heads ZB5RZA0 and ZB4RZA0

<table>
<thead>
<tr>
<th>Description</th>
<th>Background color</th>
<th>Marking</th>
<th>Sold in lots of</th>
<th>Unit reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sets of 10 different colored caps with identical marking (1)</td>
<td>White</td>
<td>Without</td>
<td>10</td>
<td>ZBA71</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“I” (black)</td>
<td>10</td>
<td>ZBA7131</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“°” (black)</td>
<td>10</td>
<td>ZBA7134</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“+” (black)</td>
<td>10</td>
<td>ZBA7138</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td>Black</td>
<td>Without</td>
<td>10</td>
<td>ZBA72</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“O” (white)</td>
<td>10</td>
<td>ZBA7232</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“+” (white)</td>
<td>10</td>
<td>ZBA7233</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“R” (white)</td>
<td>10</td>
<td>ZBA7235</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“I” (white)</td>
<td>10</td>
<td>ZBA7237</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td>Without</td>
<td>10</td>
<td>ZBA73</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“I” (white)</td>
<td>10</td>
<td>ZBA7331</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“+” (white)</td>
<td>10</td>
<td>ZBA7333</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“G” (white)</td>
<td>10</td>
<td>ZBA7335</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“II” (white)</td>
<td>10</td>
<td>ZBA7336</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td>Red</td>
<td>Without</td>
<td>10</td>
<td>ZBA74</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>“O” (white)</td>
<td>10</td>
<td>ZBA7432</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td>Yellow</td>
<td>Without</td>
<td>10</td>
<td>ZBA75</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td>Blue</td>
<td>Without</td>
<td>10</td>
<td>ZBA76</td>
<td>0.010/0.022</td>
</tr>
</tbody>
</table>

Set of 10 different colored caps with different markings (1)
White, black, green, red, yellow, blue, white “I” on green background, black “I” on white background, white “O” on red background, white “O” on black background

<table>
<thead>
<tr>
<th>Description</th>
<th>Sold in lots of</th>
<th>Unit reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set of 6 different colored caps</td>
<td>1</td>
<td>ZBA80</td>
<td>0.010/0.022</td>
</tr>
</tbody>
</table>

(1) Cap can be clipped on at 90° steps, through 360°.
**Accessories (continued)**

<table>
<thead>
<tr>
<th>Product</th>
<th>Application</th>
<th>Description</th>
<th>Sold in lots of</th>
<th>Unit reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic empty mobile box (1) (4)</td>
<td>For mobile and static applications with wireless and batteryless pushbuttons</td>
<td>1 cut-out</td>
<td>1</td>
<td>ZBRM21</td>
<td>0.109/0.240</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 cut-outs</td>
<td>1</td>
<td>ZBRM22</td>
<td>0.110/0.243</td>
</tr>
<tr>
<td>Plastic mobile box equipped with button(s) and transmitter(s), 1 set of caps</td>
<td>For mobile and static applications with wireless and batteries pushbuttons</td>
<td>1 button with ZBRT1 transmitter</td>
<td>1</td>
<td>ZBRM21A0</td>
<td>0.150/0.337</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 button with ZBRT2 transmitter</td>
<td>1</td>
<td>ZBRM21B0</td>
<td>0.151/0.333</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 buttons with ZBRT1 transmitters</td>
<td>1</td>
<td>ZBRM22A0</td>
<td>0.194/0.428</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 buttons with ZBRT2 transmitters</td>
<td>1</td>
<td>ZBRM22B0</td>
<td>0.195/0.430</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 button with ZBRT1 and 1 button with ZBRT2</td>
<td>1</td>
<td>ZBRM22AB0</td>
<td>0.195/0.430</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 button with ZBRT2 and 1 button with ZBRT1</td>
<td>1</td>
<td>ZBRM22BA0</td>
<td>0.195/0.430</td>
</tr>
<tr>
<td>Support for tube or wall specific for ZBRM21 and ZBRM22</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>ZBRACS</td>
<td>0.064/0.141</td>
</tr>
<tr>
<td>Empty plastic boxes for wireless and batteryless pushbuttons (2)</td>
<td>For static or on-board wireless and batteryless pushbuttons</td>
<td>1 cut-out</td>
<td>1</td>
<td>XALD01</td>
<td>0.136/0.300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 cut-outs</td>
<td>1</td>
<td>XALD02</td>
<td>0.193/0.426</td>
</tr>
<tr>
<td>Other Accessories</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relay-antenna (3)</td>
<td>Between transmitter and receiver</td>
<td>Used to increase the range and/or get round obstacles</td>
<td>24...240 V cc</td>
<td>1</td>
<td>ZBRA1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>□ 5 m/16.4 ft cable</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>□ 1 power-ON LED</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>□ 2 LEDs reception/transmission</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Passive antenna</td>
<td>Passive antenna to pass through a wall, must be close to a relay antenna or a receiver</td>
<td>□ 2 antennas</td>
<td>1</td>
<td>ZBRA3</td>
<td>0.010/0.238</td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ 0.9 m/2.95 ft cable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>□ 2 RF connectors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vertical or horizontal support</td>
<td>Universal support for rope pull switch</td>
<td>A carabiner and a support to attach horizontally or vertically</td>
<td>1</td>
<td>ZBRAUS2</td>
<td>0.109/0.240</td>
</tr>
<tr>
<td>Fixing collar</td>
<td>–</td>
<td>Plastic</td>
<td>10</td>
<td>ZB5AZ009</td>
<td>0.038/0.084</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Metal</td>
<td>10</td>
<td>ZB4BZ009</td>
<td>0.038/0.084</td>
</tr>
<tr>
<td>Legend plate, 27 x 8 mm/1.06 x 0.32 in., for engraving</td>
<td>For sticking onto handy box ZBRM01, ZBRM21, and ZBRM22</td>
<td>Self-adhesive, blank, black background</td>
<td>10</td>
<td>ZBY0101T</td>
<td>0.005/0.011</td>
</tr>
</tbody>
</table>

(1) Cannot be used for wired contacts (no cable gland outlet).
(2) Box equipped with cable gland outlets, compatible with Harmony XB5 pushbutton heads.
(3) Not wired to the receiver.
(4) Compatible with ZBRT1 and ZBRT2.
Control and signaling units Ø 22
Harmony XB5R plastic and XB4R metal
Wireless and batteryless ecosystem devices

Harmony Hub ZBRN1 and ZBRN2

- Presentation ................................................................. page 3/2
- Description ................................................................. page 3/2
- References
  - Configurable Harmony Hub ................................ page 3/3
  - Communication module ......................................... page 3/3
  - Accessories ............................................................ page 3/3
- Compatibility
  - Harmony Hub ecosystem devices ......................... page 3/4
**Control and signaling units Ø 22**

Harmony XB5R plastic and XB4R metal

Wireless and batteryless ecosystem device

Harmony Hub ZBRN1 and ZBRN2

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**Presentation**

Harmony Hub provides network connectivity openness by operating as an intermediate device between the wireless devices and PLCs (programmable logic controllers) or industrial PCs (IT/OT box) that support the Modbus/TCP protocol. Harmony Hub can be used with transmitters such as XB4R and XB5R wireless and batteryless pushbuttons, rope pull switches, mushroom head pushbuttons, Emergency stop monitoring, wireless and batteryless limit switches, and temperature and energy sensors.

Harmony Hub provides an easy way to digitize your production line to improve overall equipment efficiency (OEE) by using a non-intrusive wireless system that is easy to connect to the IT system.

It collects physical signals from an operator interface or secondary sensing device to generate computed data information for CMMS tools and operation management tools.

Data can be analyzed through our dedicated EcoStruxure platform using “AVEVA Insight” software, “Maintenance Advisor” software, or our “Augmented Operator Advisor” on-premise application.

Depending on the application, an external or relay antenna can be used to improve signal reception. Harmony Hub can support up to 60 radio transmitters.

It can be configured using the jog dial and 7-segment display (configuration and diagnostic modes), SoMachine, Unity Pro software, a third-party FDT container using DTM (Device Type Manager) files \(^{(1)}\) \(^{(2)}\), or an SD card.

---

**Description**

**Standard Harmony Hub with communication module (see figure A)**

Harmony Hub ZBRN1 has an empty slot for the ZBRCETH communication module to support the Modbus/TCP protocol. This communication module has 2 standard Ethernet RJ45 connectors that provide connectivity for daisy chain operation and daisy chain loop operation (when used with Schneider Electric ConneXium Ethernet switches) and thus avoids the use of an external switch or hub.

1 ZBRN1 standard Harmony Hub \((3)\)
2 ZBRN1 instruction sheet
3 ZBRCETH Modbus/TCP network communication module
4 ZBRCETH instruction sheet

**Standard Harmony Hub (see figure B)**

Harmony Hub ZBRN2 has 2 embedded RS485 connectors, which avoids the use of an external hub for RS485 serial line connection. The supported data rates are 1,200 bps, 2,400 bps, 4,800 bps, 9,200 bps, 9,600 bps, 38,400 bps, and 115,200 bps.

1 ZBRN2 Harmony Hub
2 ZBRN2 instruction sheet

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\(^{(1)}\) For more information on SoMachine and Unity Pro software, please visit our website [www.schneider-electric.com](http://www.schneider-electric.com).

\(^{(2)}\) DTM is a software component file that enables the SoMachine or Unity Pro software to communicate with the connected system.

\(^{(3)}\) ZBRN1 must be plugged with a communication module, reference ZBRCETH for Modbus/TCP protocol.
Control and signaling units Ø 22
Harmony XB5R plastic and XB4R metal
Wireless and batteryless ecosystem device
Harmony Hub ZBRN1 and ZBRN2

References

Configurable Harmony Hub

<table>
<thead>
<tr>
<th>Description</th>
<th>Data function</th>
<th>Output type</th>
<th>Receiver voltage V</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configurable Harmony Hub equipped with:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 7-segment display</td>
<td>Monostable</td>
<td>1 slot for</td>
<td>24...240</td>
<td>ZBRN1</td>
<td>0.270/0.595</td>
</tr>
<tr>
<td>- jog dial</td>
<td>(adjustable</td>
<td>ZBRCETH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 LED indicators (Power On, functions mode,</td>
<td>from 100 ms</td>
<td>communication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>communication status, signal strength)</td>
<td>to 1 s)</td>
<td>module (to be ordered separately)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- external antenna connector and protective</td>
<td>Monostable</td>
<td>2 RS485</td>
<td>24...240</td>
<td>ZBRN2</td>
<td>0.263/0.580</td>
</tr>
<tr>
<td>plug</td>
<td>(adjustable</td>
<td>connectors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>from 100 ms</td>
<td>providing connectivity for Modbus RS485 Serial Line</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>to 1 s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Communication module

<table>
<thead>
<tr>
<th>Description</th>
<th>Characteristics</th>
<th>Communication port</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modbus/TCP network communication module</td>
<td>Modbus/TCP protocol with embedded Web pages in 5 languages for configuration, monitoring, and diagnostics</td>
<td>2 RJ45 connectors providing connectivity for daisy chain and daisy chain loop operation</td>
<td>ZBRCETH</td>
<td>0.044/0.097</td>
</tr>
</tbody>
</table>

Accessories

<table>
<thead>
<tr>
<th>Product</th>
<th>Application</th>
<th>Description</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>External antenna</td>
<td>Connected to Harmony Hub (ZBRN1 or ZBRN2)</td>
<td>2 m/6.56 ft cable and 1 RF connector</td>
<td>ZBRA2</td>
<td>0.040/0.088</td>
</tr>
</tbody>
</table>

Note: The ZBRN2 has an embedded communication port for Modbus Serial Line, whereas the ZBRN1 must be plugged with a communication module to support different protocols.
## Harmony Hub ecosystem device

### Transmitter components for wireless and batteryless pushbuttons

<table>
<thead>
<tr>
<th>Description</th>
<th>Type of push</th>
<th>Color</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter for wireless and batteryless pushbutton (1) (2)</td>
<td>1 radio frame sent when button – is pushed</td>
<td></td>
<td>ZBRT1</td>
<td>0.025/0.055</td>
</tr>
<tr>
<td></td>
<td>1 radio frame sent when button – is pushed</td>
<td></td>
<td>ZBRT2 (5)</td>
<td>0.025/0.055</td>
</tr>
<tr>
<td>Spring return pushbutton heads for ZBRT1 transmitter</td>
<td>Flush (plastic) Without cap (3)</td>
<td></td>
<td>ZB5RZA0</td>
<td>0.015/0.033</td>
</tr>
<tr>
<td></td>
<td>Flush (metal) Without cap (3)</td>
<td></td>
<td>ZB4RZA0</td>
<td>0.030/0.066</td>
</tr>
<tr>
<td>Spring return mushroom head for ZBRT1 transmitter</td>
<td>Mushroom 40 mm/1.58 in. (plastic) Black</td>
<td></td>
<td>ZB5RZC2</td>
<td>0.025/0.055</td>
</tr>
<tr>
<td>Wireless and batteryless pushbutton including:</td>
<td>- a transmitter equipped with fixing collar</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- a spring return mushroom head</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless and batteryless pushbuttons including:</td>
<td>Flush (plastic)</td>
<td></td>
<td>ZB5RTA1</td>
<td>0.045/0.099</td>
</tr>
<tr>
<td></td>
<td>- a transmitter equipped with fixing collar</td>
<td>White</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- a spring return pushbutton head with cap attached (4)</td>
<td>Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>White I on green background</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Red</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>White O on red background</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yellow</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blue</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flush (metal)</td>
<td>White</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Green</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>White I on green background</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Red</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>White O on red background</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Yellow</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blue</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Fixing collar ZBSA2009 (plastic) or ZBSB2009 (metal) to be ordered separately.
2. Only heads ZB4RZA0 and ZB5RZA0 are mechanically compatible.
3. Cap to be ordered separately. Refer to the “Accessories” table on page 2/8.
4. This cap is factory-assembled and cannot be removed (risk of damage).
5. This transmitter is only compatible with receiver ZBRR version ≥ 2.0, relay antenna ZBRA1 version ≥ 2.0, and Harmony Hub ZBRN version > 1.2.
### Harmony Hub ecosystem device (continued)

<table>
<thead>
<tr>
<th>Description</th>
<th>Application</th>
<th>Reference</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rope pull switch with wireless and batteryless transmitter</td>
<td>For automatic doors: The rope pull switch sends a radio message to the receiver in the control panel to open and close the door.</td>
<td>ZBRP1</td>
<td>0.150/0.331</td>
</tr>
<tr>
<td>Rope pull switch with wireless and batteryless transmitter and a universal support accessory ZBRAUS2</td>
<td>For automatic doors: The rope pull switch sends a radio message to the receiver in the control panel to open and close the door.</td>
<td>XB5RP1US2</td>
<td>0.259/0.571</td>
</tr>
</tbody>
</table>

### Configurable receiver for Harmony Hub

<table>
<thead>
<tr>
<th>Description</th>
<th>Output function</th>
<th>Output type</th>
<th>Receiver voltage V</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wireless Receiver for Harmony Hub, 2 pushbuttons and 6 LEDs</td>
<td>Bistable</td>
<td>4 PNP outputs</td>
<td>24</td>
<td>ZBRRH</td>
<td>0.130/0.287</td>
</tr>
</tbody>
</table>
### Harmony Hub ecosystem device (continued)

#### Accessories - Caps for Harmony pushbutton heads ZB5RZ0A and ZB4RZ0A

<table>
<thead>
<tr>
<th>Description</th>
<th>Background color</th>
<th>Marking</th>
<th>Sold in lots of</th>
<th>Unit reference</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sets of 10 different colored caps with identical marking (1)</td>
<td>White</td>
<td>-</td>
<td>10</td>
<td>ZBA71</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;I&quot; (black)</td>
<td>10</td>
<td>ZBA7131</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;A&quot; (black)</td>
<td>10</td>
<td>ZBA7134</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;+&quot; (black)</td>
<td>10</td>
<td>ZBA7138</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td>Black</td>
<td></td>
<td>-</td>
<td>10</td>
<td>ZBA72</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;O&quot; (white)</td>
<td>10</td>
<td>ZBA7232</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;+&quot; (white)</td>
<td>10</td>
<td>ZBA7233</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;R&quot; (white)</td>
<td>10</td>
<td>ZBA7235</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;I&quot; (white)</td>
<td>10</td>
<td>ZBA7237</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td>Green</td>
<td></td>
<td>-</td>
<td>10</td>
<td>ZBA73</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;I&quot; (white)</td>
<td>10</td>
<td>ZBA7331</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;+&quot; (white)</td>
<td>10</td>
<td>ZBA7333</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;R&quot; white</td>
<td>10</td>
<td>ZBA7335</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;II&quot; (white)</td>
<td>10</td>
<td>ZBA7336</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td>Red</td>
<td></td>
<td>-</td>
<td>10</td>
<td>ZBA74</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&quot;O&quot; (white)</td>
<td>10</td>
<td>ZBA7432</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td>Yellow</td>
<td></td>
<td>-</td>
<td>10</td>
<td>ZBA75</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td>Blue</td>
<td></td>
<td>-</td>
<td>10</td>
<td>ZBA76</td>
<td>0.010/0.022</td>
</tr>
<tr>
<td>Set of 10 different colored caps with different markings (1)</td>
<td>White, black, green, red, yellow, blue, white &quot;I&quot; on green background, black &quot;I&quot; on white background, white &quot;O&quot; on red background, white &quot;O&quot; on black background</td>
<td>1</td>
<td>ZBA79</td>
<td>0.010/0.022</td>
<td></td>
</tr>
<tr>
<td>Set of 6 different colored caps</td>
<td>White, black, green, red, yellow, blue</td>
<td>1</td>
<td>ZBA80</td>
<td>0.010/0.022</td>
<td></td>
</tr>
</tbody>
</table>

(1) Cap can be clipped on at 90° steps, through 360°.
## Compatibility (continued)

### Harmony Hub ecosystem device (continued)

#### Accessories (continued) - Boxes for wireless and batteryless pushbuttons

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Application</th>
<th>Sold in lots of</th>
<th>Unit reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic empty mobile box</td>
<td>For mobile and static applications with wireless and batteryless pushbuttons</td>
<td>1 cut-out</td>
<td>ZBRM21</td>
<td>0.109/0.240</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 cut-outs</td>
<td>ZBRM22</td>
<td>0.110/0.243</td>
</tr>
<tr>
<td>Plastic mobile box equipped with button(s) and transmitter(s), 1 set of caps</td>
<td>For mobile and static applications with wireless and batteryless pushbuttons</td>
<td>1 cut-out</td>
<td>ZBRM21A0</td>
<td>0.150/0.337</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 button with ZBRT1 transmitter</td>
<td>ZBRM21B0</td>
<td>0.151/0.333</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 buttons with 2x ZBRT1 transmitters</td>
<td>ZBRTM22A0</td>
<td>0.194/0.428</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 buttons with 2x ZBRT2 transmitters</td>
<td>ZBRTM22B0</td>
<td>0.195/0.430</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 button with ZBRT1 and 1 button with ZBRT2</td>
<td>ZBRTM22AB0</td>
<td>0.195/0.430</td>
</tr>
<tr>
<td></td>
<td>Special support for tube or wall for - ZBRTM21 and ZBRTM22</td>
<td>1</td>
<td>ZBRACS</td>
<td>0.064/0.147</td>
</tr>
<tr>
<td>Empty plastic boxes for wireless and batteryless pushbuttons (2)</td>
<td>For static or on-board wireless and batteryless pushbuttons</td>
<td>1 cut-out</td>
<td>XALD01</td>
<td>0.136/0.300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 cut-outs</td>
<td>XALD02</td>
<td>0.193/0.426</td>
</tr>
<tr>
<td>Other accessories</td>
<td>Relay antenna (3)</td>
<td>Between transmitter and receiver</td>
<td>ZBRA1</td>
<td>0.200/0.441</td>
</tr>
<tr>
<td></td>
<td>Passive antenna</td>
<td>Passive antenna to pass through a wall, must be close to a relay antenna or a receiver</td>
<td>ZBRA3</td>
<td>0.010/0.028</td>
</tr>
<tr>
<td></td>
<td>Vertical or horizontal support</td>
<td>Universal support for rope pull switch</td>
<td>ZBRAUS2</td>
<td>0.109/0.240</td>
</tr>
<tr>
<td></td>
<td>Fixing collar</td>
<td>Plastic</td>
<td>ZBSAZ009</td>
<td>0.038/0.084</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Metal</td>
<td>ZB4BZ009</td>
<td>0.038/0.084</td>
</tr>
<tr>
<td></td>
<td>Legend plate, 27 x 8 mm/ 1.06 x 0.32 in., for engraving</td>
<td>Self-adhesive, blank, black background</td>
<td>ZBY0101T</td>
<td>0.005/0.011</td>
</tr>
</tbody>
</table>

(1) Cannot be used for wired contacts (no cable gland outlet).
(2) Box equipped with cable gland outlets, compatible with Harmony XB5 pushbutton heads.
(3) Not wired to the receiver.
(4) Compatible with ZBRT1 and ZBRT2.
Compatibility (continued)

Harmony XB5R plastic and XB4R metal Wireless and batteryless ecosystem device Harmony Hub ZBRN1 and ZBRN2

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>XCKW101</td>
<td>Metal plunger</td>
<td>Wireless products easy to install on your equipment with no machine cabling and maintenance. For more information, see OsiSense XCKW page on <a href="http://www.schneider-electric.com">www.schneider-electric.com</a></td>
</tr>
<tr>
<td>XCKW102</td>
<td>Steel roller plunger</td>
<td>2 linear type heads: With head for linear movement (plunger). For more information, see OsiSense XCKW page on <a href="http://www.schneider-electric.com">www.schneider-electric.com</a></td>
</tr>
<tr>
<td>XCKW131</td>
<td>Thermoplastic roller lever</td>
<td>Wireless products easy to install on your equipment with no machine cabling and maintenance. 7 rotary type heads: With head for rotary lever. For more information, see OsiSense XCKW page on <a href="http://www.schneider-electric.com">www.schneider-electric.com</a></td>
</tr>
<tr>
<td>XCKW133</td>
<td>Steel roller lever</td>
<td>For more information, see OsiSense XCKW page on <a href="http://www.schneider-electric.com">www.schneider-electric.com</a></td>
</tr>
<tr>
<td>XCKW141</td>
<td>Variable length thermoplastic roller lever</td>
<td></td>
</tr>
<tr>
<td>XCKW143</td>
<td>Variable length steel roller lever</td>
<td></td>
</tr>
<tr>
<td>XCKW139</td>
<td>Elastomer roller lever, Ø 50 mm/2 in.</td>
<td></td>
</tr>
<tr>
<td>XCKW149</td>
<td>Variable length elastomer roller lever, Ø 50 mm/2 in.</td>
<td></td>
</tr>
<tr>
<td>XCKW159</td>
<td>Round thermoplastic rod lever, Ø 6 mm/0.25 in.</td>
<td></td>
</tr>
</tbody>
</table>
### Control and signaling units Ø 22

Harmony XB5R plastic and XB4R metal
Wireless and batteryless ecosystem device
Harmony Hub ZBRN1 and ZBRN2

#### Compatibility (continued)

#### Harmony Hub ecosystem device (continued)

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>XCMW110</td>
<td>Metal end plunger</td>
<td>Miniature format products designed to fit in extremely compact areas. Reduced installation time and cost, both for new machinery and renovating existing installations. No battery replacement and no recycling costs.</td>
</tr>
<tr>
<td>XCMW112</td>
<td>Metal roller plunger</td>
<td>2 linear type heads: With head for linear movement (plunger)</td>
</tr>
<tr>
<td>XCMW115</td>
<td>Plastic roller lever</td>
<td>Miniature format products designed to fit in extremely compact areas. Reduced installation time and cost, both for new machinery and renovating existing installations. No battery replacement and no recycling costs.</td>
</tr>
<tr>
<td>XCMW116</td>
<td>Metal roller lever</td>
<td>3 rotary type heads: With head for rotary lever</td>
</tr>
<tr>
<td>XCMW145</td>
<td>Adjustable length plastic roller lever</td>
<td></td>
</tr>
</tbody>
</table>

#### Transmitter components for wireless and batteryless imit switches

- **XCMW110**: Metal end plunger
  - Description: Miniature format products designed to fit in extremely compact areas. Reduced installation time and cost, both for new machinery and renovating existing installations. No battery replacement and no recycling costs.

- **XCMW112**: Metal roller plunger
  - Description: 2 linear type heads: With head for linear movement (plunger)

- **XCMW115**: Plastic roller lever
  - Description: Miniature format products designed to fit in extremely compact areas. Reduced installation time and cost, both for new machinery and renovating existing installations. No battery replacement and no recycling costs.

- **XCMW116**: Metal roller lever
  - Description: 3 rotary type heads: With head for rotary lever

- **XCMW145**: Adjustable length plastic roller lever

#### Transmitter components for wireless and batteryless temperature sensors

- **A9XST114**: Temperature sensor
  - Description: For measuring the temperature of food storage and processing equipment and rooms in order to respect the cold chain.

#### Transmitter components for wireless and batteryless energy sensors

- **A9MEM1560**: Energy monitoring sensor
  - Description: Cut down on installation time with the efficient and simple PowerTag® power sensor units. Designed to reduce downtime and save on costs, they provide the ultimate in convenience and flexibility.

- **A9MEM1570**: Energy monitoring sensor

- **LV434020**: Energy sensor component
  - Description: Energy Sensor PowerTag NSX to monitor a machine’s voltage, current, and energy.

- **LV434021**: Energy sensor component

- **LV434022**: Energy sensor component

- **LV434023**: Energy sensor component
Control and signaling units Ø 22
Harmony XB5R plastic and XB4R metal
Wireless and batteryless pushbuttons
Wireless and batteryless ecosystem devices
# Product reference index

## A
- A9MEM1560: 3/9
- A9MEM1570: 3/9
- A9XST114: 1/7
- A9XST117: 3/9

## L
- LV434020: 3/9
- LV434021: 3/9
- LV434022: 3/9
- LV434023: 3/9

## X
- XALD01: 2/9
- XALD02: 3/7
- XB4RFA02: 2/5
- XB4RFBO1: 2/5
- XB5RFA02: 2/5
- XB5RFBO1: 2/5
- XB5RMA04: 2/5
- XB5RMB03: 2/5
- XB5RP1US2: 2/7
- XCKW101: 3/6
- XCKW102: 3/6
- XCKW131: 3/8
- XCKW133: 3/8
- XCKW139: 3/8
- XCKW141: 3/8
- XCKW143: 3/8
- XCKW149: 3/8
- XCKW159: 3/8
- XCMW102: 3/9
- XCMW110: 3/9
- XCMW115: 3/9
- XCMW116: 3/9
- XCMW145: 3/9

## Z
- ZB4BZ009: 2/9
- ZB4RRA1: 2/6
- ZB4RTA2: 2/6
- ZB4RTA3: 2/6
- ZB4RTA4: 2/6
- ZB4RTA5: 2/6
- ZB4RTA6: 2/6
- ZB4RTA331: 2/6
- ZB5RTA4: 2/6
- ZB5R5A4: 2/6
- ZB5RTA5: 2/6
- ZB5RTA6: 2/6
- ZB5RTA331: 2/6
- ZB5RTA432: 2/6
- ZB5RTC2: 2/6
- ZB5RZC2: 2/6
- ZB5RZA0: 2/6
- ZB75: 2/8
- ZBA71: 2/6
- ZBA72: 2/6
- ZBA73: 2/6
- ZBA74: 2/6
- ZBA75: 2/6
- ZBA76: 2/6
- ZBA79: 2/6
- ZBA80: 2/6
- ZBA7131: 2/8
- ZBA7134: 2/8
- ZBA7138: 2/8
- ZBA7232: 2/6
- ZBA7233: 2/6
- ZBA7235: 2/6
- ZBA7237: 2/6
- ZBA7331: 2/8
- ZBA7333: 2/6
- ZBA7335: 2/6
- ZBA7336: 2/6
- ZBA7432: 2/6
- ZB7A: 2/7
- ZB7A1: 2/7
- ZB7A2: 2/7
- ZB7A3: 2/7
- ZB7A4: 2/7
- ZB7A5: 2/7
- ZB7A6: 2/7
- ZB7A9: 2/7
- ZB7A80: 2/7
- ZB7A7131: 2/7
- ZB7A7134: 2/7
- ZB7A7138: 2/7
- ZB7A7232: 2/7
- ZB7A7233: 2/7
- ZB7A7235: 2/7
- ZB7A7237: 2/7
- ZB7A7331: 2/7
- ZB7A7333: 2/7
- ZB7A7335: 2/7
- ZB7A7336: 2/7
- ZB7A7432: 2/7
- ZBRA1: 2/7
- ZBRA2: 2/7
- ZBRA3: 2/7
- ZBRAC5: 2/7
- ZBRAUS2: 2/7
- ZBRCETH: 1/7
- ZBRM21: 2/9
- ZBRM21A0: 2/9
- ZBRM21B0: 2/9
- ZBRM22: 2/9
- ZBRM22A0: 2/9
- ZBRM22AB0: 2/9
- ZBRM22B0: 2/9
- ZBRM22BA0: 2/9
- ZBRN1: 1/7
- ZBRN2: 1/7
- ZBRRP1: 1/7
- ZBRRRA: 2/7
- ZBRRRC: 2/7
- ZBRRD: 2/7
- ZBRRH: 1/7
- ZBRT1: 2/6
- ZBRT2: 2/6
- ZBY0101T: 2/9
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