

# Product datasheet

Specifications



Push button, plastic, flush, green,  
Ø22, spring return, unmarked, 1 NO

XB5AA31

## Main

|                               |                                                                                                                                                                             |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product              | Harmony XB5                                                                                                                                                                 |
| Product or component type     | Push-button                                                                                                                                                                 |
| Device short name             | XB5                                                                                                                                                                         |
| Bezel material                | Plastic<br>Dark grey plastic                                                                                                                                                |
| Head type                     | Standard                                                                                                                                                                    |
| Fixing collar material        | Plastic                                                                                                                                                                     |
| Mounting diameter             | 22.5 mm                                                                                                                                                                     |
| Sale per indivisible quantity | 1                                                                                                                                                                           |
| Shape of signaling unit head  | Round                                                                                                                                                                       |
| Type of operator              | spring return                                                                                                                                                               |
| Operator profile              | Green flush, unmarked                                                                                                                                                       |
| Contacts type and composition | 1 NO                                                                                                                                                                        |
| Contact operation             | Slow-break                                                                                                                                                                  |
| Connections - terminals       | Screw clamp terminals, <= 2 x 1.5 mm² with cable end conforming to IEC 60947-1<br>Screw clamp terminals, 1 x 0.22...2 x 2.5 mm² without cable end conforming to IEC 60947-1 |

## Complementary

|                                    |                                                                |
|------------------------------------|----------------------------------------------------------------|
| Height                             | 42 mm                                                          |
| Width                              | 30 mm                                                          |
| Depth                              | 52 mm                                                          |
| Terminals description ISO n°1      | (13-14)NO                                                      |
| Net weight                         | 0.037 kg                                                       |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance : 0.1 m                          |
| Contacts usage                     | Standard contacts                                              |
| Positive opening                   | Without                                                        |
| Operating travel                   | 2.6 mm (NO changing electrical state)<br>4.3 mm (total travel) |
| Operating force                    | 3.8 N NO changing electrical state                             |
| Mechanical durability              | 10000000 cycles                                                |
| Tightening torque                  | 0.8...1.2 N.m conforming to IEC 60947-1                        |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Disclaimer: 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

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shape of screw head                         | Cross compatible with Philips no 1 screwdriver<br>Cross compatible with pozidriv No 1 screwdriver<br>Slotted compatible with flat Ø 4 mm screwdriver<br>Slotted compatible with flat Ø 5.5 mm screwdriver                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Contacts material                           | Silver alloy (Ag/Ni)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Short-circuit protection                    | 10 A cartridge fuse type gG conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| [Ith] conventional free air thermal current | 10 A conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [Ui] rated insulation voltage               | 600 V (pollution degree 3) conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [Uimp] rated impulse withstand voltage      | 6 kV conforming to IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| [Ie] rated operational current              | 3 A at 240 V, AC-15, A600 conforming to IEC 60947-5-1<br>6 A at 120 V, AC-15, A600 conforming to IEC 60947-5-1<br>0.1 A at 600 V, DC-13, Q600 conforming to IEC 60947-5-1<br>0.27 A at 250 V, DC-13, Q600 conforming to IEC 60947-5-1<br>0.55 A at 125 V, DC-13, Q600 conforming to IEC 60947-5-1<br>1.2 A at 600 V, AC-15, A600 conforming to IEC 60947-5-1                                                                                                                                                                                                                                                                               |
| Electrical durability                       | 1000000 cycles AC-15, 2 A at 230 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1: appendix C<br>1000000 cycles AC-15, 3 A at 120 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1: appendix C<br>1000000 cycles AC-15, 4 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1: appendix C<br>1000000 cycles DC-13, 0.2 A at 110 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1: appendix C<br>1000000 cycles DC-13, 0.5 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to IEC 60947-5-1: appendix C |
| Electrical reliability                      | $\Lambda < 10\text{exp}(-6)$ at 5 V and 1 mA in clean environment conforming to IEC 60947-5-4<br>$\Lambda < 10\text{exp}(-8)$ at 17 V and 5 mA in clean environment conforming to IEC 60947-5-4                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Device presentation                         | Complete product                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| customizable                                | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Customizable                                | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| GCR BRIDGE                                  | XB5AACUST01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Compatibility code                          | XB5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Environment

|                                       |                                                                                                            |
|---------------------------------------|------------------------------------------------------------------------------------------------------------|
| Protective treatment                  | TH                                                                                                         |
| Ambient air temperature for storage   | -40...70 °C                                                                                                |
| Ambient air temperature for operation | -40...70 °C                                                                                                |
| Overvoltage category                  | Class II conforming to IEC 60536                                                                           |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP67<br>IP69<br>IP69K                                                      |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                         |
| IK degree of protection               | IK03 conforming to IEC 50102                                                                               |
| Standards                             | UL 508<br>IEC 60947-5-4<br>CSA C22.2 No 14<br>JIS C8201-5-1<br>IEC 60947-5-1<br>IEC 60947-1<br>JIS C8201-1 |

|                        |                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product certifications | DNV<br>CSA<br>UL listed<br>LROS (Lloyds register of shipping)<br>BV                                                                                                            |
| Vibration resistance   | 5 gn (f= 2...500 Hz) conforming to IEC 60068-2-6                                                                                                                               |
| Shock resistance       | 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 |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 3.500 cm  |
| Package 1 Width              | 5.500 cm  |
| Package 1 Length             | 8.500 cm  |
| Package 1 Weight             | 35.600 g  |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 150       |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 5.861 kg  |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 1200      |
| Package 3 Height             | 75.000 cm |
| Package 3 Width              | 80.000 cm |
| Package 3 Length             | 60.000 cm |
| Package 3 Weight             | 54.888 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

# 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.

How this information helps you >

## Environmental footprint

|                                                       |   |
|-------------------------------------------------------|---|
| Carbon footprint (kg.eq.CO2 per CR, Total Life cycle) | 1 |
|-------------------------------------------------------|---|

|                          |                                               |
|--------------------------|-----------------------------------------------|
| Environmental Disclosure | <a href="#">Product Environmental Profile</a> |
|--------------------------|-----------------------------------------------|

## Use Better

### Materials and Substances

|                                        |     |
|----------------------------------------|-----|
| Packaging made with recycled cardboard | Yes |
|----------------------------------------|-----|

|                                      |     |
|--------------------------------------|-----|
| Packaging without single use plastic | Yes |
|--------------------------------------|-----|

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| <a href="#">EU RoHS Directive</a> | Pro-active compliance (Product out of EU RoHS legal scope) |
|-----------------------------------|------------------------------------------------------------|

|                  |                                   |
|------------------|-----------------------------------|
| REACH Regulation | <a href="#">REACH Declaration</a> |
|------------------|-----------------------------------|

|                       |                                        |
|-----------------------|----------------------------------------|
| China RoHS Regulation | <a href="#">China RoHS declaration</a> |
|-----------------------|----------------------------------------|

## Use Again

### Repack and remanufacture

|                     |                                         |
|---------------------|-----------------------------------------|
| Circularity Profile | <a href="#">End of Life Information</a> |
|---------------------|-----------------------------------------|

WEEE



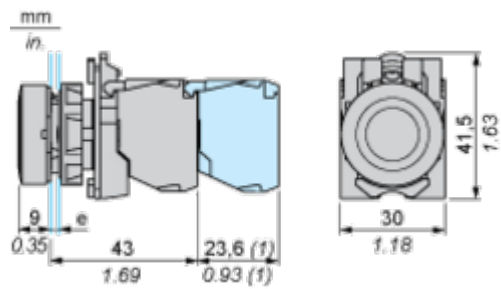
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Take-back

No

Dimensions Drawings

Dimensions

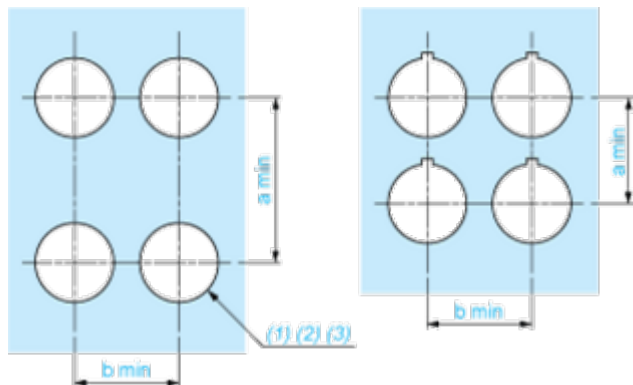


e: clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.  
(1) Additional row of contacts or double contact

Mounting and Clearance

Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

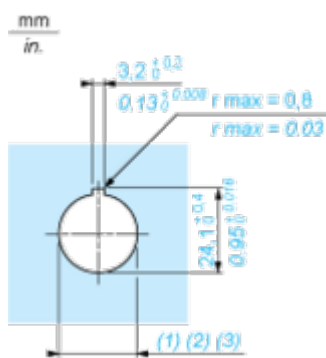
Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board



- (1) Diameter on finished panel or support  
(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.  
(3) Ø22.5 mm recommended ( $\text{Ø}22.3 \begin{smallmatrix} +0.4 \\ 0 \end{smallmatrix}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88 \text{ in. } \begin{smallmatrix} +0.016 \\ 0 \end{smallmatrix}$ )

| Connections                                   | a in mm | a in in. | b in mm | b in in. |
|-----------------------------------------------|---------|----------|---------|----------|
| By screw clamp terminals or plug-in connector | 40      | 1.57     | 30      | 1.18     |
| By Faston connectors                          | 45      | 1.77     | 32      | 1.26     |
| On printed circuit board                      | 30      | 1.18     | 30      | 1.18     |

Detail of Lug Recess



- (1) Diameter on finished panel or support  
(2) For selector switches and Emergency stop buttons, use of an anti-rotation plate type ZB5AZ902 is recommended.  
(3) Ø22.5 mm recommended ( $\text{Ø}22.3 \begin{smallmatrix} +0.4 \\ 0 \end{smallmatrix}$ ) / Ø0.89 in. recommended ( $\text{Ø}0.88 \text{ in. } \begin{smallmatrix} +0.016 \\ 0 \end{smallmatrix}$ )

Technical Illustration

Dimensions

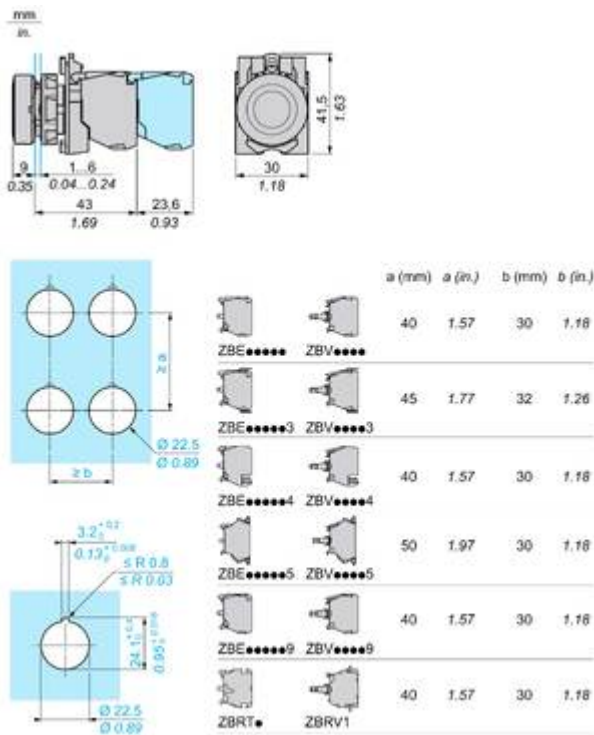


Image of product / Alternate images

Alternative

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