# Product data sheet

## Characteristics

**XB4BD21**
black selector switch Ø22 2-position stay put 1NO 600V

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### Main

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range of product</td>
<td>Harmony XB4</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Selector switch</td>
</tr>
<tr>
<td>Device short name</td>
<td>XB4</td>
</tr>
<tr>
<td>Bezel material</td>
<td>Chromium plated metal</td>
</tr>
<tr>
<td>Fixing collar material</td>
<td>Zamak</td>
</tr>
<tr>
<td>Mounting diameter</td>
<td>22 mm</td>
</tr>
<tr>
<td>Sale per indivisible quantity</td>
<td>1</td>
</tr>
<tr>
<td>Head type</td>
<td>Standard</td>
</tr>
<tr>
<td>Shape of signaling unit head</td>
<td>Round</td>
</tr>
<tr>
<td>Type of operator</td>
<td>stay put</td>
</tr>
<tr>
<td>Operator profile</td>
<td>Black standard handle</td>
</tr>
<tr>
<td>Operator position information</td>
<td>2 positions 90°</td>
</tr>
<tr>
<td>Contacts type and composition</td>
<td>1 NO</td>
</tr>
<tr>
<td>Contact operation</td>
<td>Slow-break</td>
</tr>
<tr>
<td>Connections - terminals</td>
<td>Screw clamp terminals, &lt;= 2 x 1.5 mm² with cable end conforming to EN/IEC 60947-1 Screw clamp terminals, &gt;= 1 x 0.22 mm² without cable end conforming to EN/IEC 60947-1</td>
</tr>
</tbody>
</table>

### Complementary

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>47 mm</td>
</tr>
<tr>
<td>Width</td>
<td>30 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>68 mm</td>
</tr>
<tr>
<td>Terminals description ISO n°1</td>
<td>(13-14)NO</td>
</tr>
<tr>
<td>Net weight</td>
<td>0.095 kg</td>
</tr>
<tr>
<td>Resistance to high pressure washer</td>
<td>7000000 Pa at 55 °C, distance : 0.1 m</td>
</tr>
<tr>
<td>Contacts usage</td>
<td>Standard contacts</td>
</tr>
<tr>
<td>Positive opening</td>
<td>Without</td>
</tr>
<tr>
<td>Torque value</td>
<td>0.14 N.m NO changing electrical state</td>
</tr>
</tbody>
</table>

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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.

Mar 2, 2020
**Mechanical durability**
1000000 cycles

**Tightening torque**
0.8...1.2 N.m conforming to EN 60947-1

**Shape of screw head**
Cross compatible with Philips no 1 screwdriver  
Cross compatible with pozidriv No 1 screwdriver  
Slotted compatible with flat Ø 4 mm screwdriver  
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 EN/IEC 60947-5-1

**[Ith] conventional free air thermal current**
10 A conforming to EN/IEC 60947-5-1

**[Ui] rated insulation voltage**
600 V (pollution degree 3) conforming to EN 60947-1

**[Uimp] rated impulse withstand voltage**
6 kV EN 60947-1

**[Ie] rated operational current**
3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1  
6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1  
0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1  
0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1  
0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1  
1.2 A at 600 V, AC-15, A600 conforming to EN/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 EN 60947-5-1 appendix C  
600000 cycles, AC-15, 3 A at 120 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to EN 60947-5-1 appendix C  
1000000 cycles, AC-15, 4 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to EN 60947-5-1 appendix C  
1000000 cycles, DC-13, 0.2 A at 110 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to EN 60947-5-1 appendix C  
1000000 cycles, DC-13, 0.5 A at 24 V, operating rate <3600 cyc/h, load factor: 0.5 conforming to EN 60947-5-1 appendix C

**Electrical reliability**
A < 10exp(-6) at 5 V and 1 mA in clean environment conforming to EN/IEC 60947-5-4  
A < 10exp(-8) at 17 V and 5 mA in clean environment conforming to EN/IEC 60947-5-4

**Device presentation**
Complete product

### Environment

**Protective treatment**
TH

**Ambient air temperature for storage**
-40...70 °C

**Ambient air temperature for operation**
-40...70 °C

**Overvoltage category**
Class I conforming to IEC 60536

**IP degree of protection**
IP69  
IP69K  
IP67 conforming to IEC 60529

**NEMA degree of protection**
NEMA 13  
NEMA 4X

**Standards**
CSA C22.2 No 14  
EN/IEC 60947-5-1  
JIS C8201-5-1  
EN/IEC 60947-1  
EN/IEC 60947-5-4  
EN/IEC 60947-5-5  
UL 508  
JIS C8201-1

**Product certifications**
RINA  
LROS (Lloyds register of shipping)  
BV  
UL  
GL  
CSA  
DNV

**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  
50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27

### Offer Sustainability

**Sustainable offer status**
Green Premium product
<table>
<thead>
<tr>
<th>EU RoHS Directive</th>
<th>Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxic heavy metal free</td>
<td>Yes</td>
</tr>
<tr>
<td>Mercury free</td>
<td>Yes</td>
</tr>
<tr>
<td>RoHS exemption information</td>
<td>Yes</td>
</tr>
<tr>
<td>China RoHS Regulation</td>
<td>China RoHS declaration</td>
</tr>
<tr>
<td>Environmental Disclosure</td>
<td>Product Environmental Profile</td>
</tr>
<tr>
<td>Circularity Profile</td>
<td>End of Life Information</td>
</tr>
<tr>
<td>WEEE</td>
<td>The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins</td>
</tr>
</tbody>
</table>

**Contractual warranty**

Warranty 18 months
e: clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.
Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

<table>
<thead>
<tr>
<th>Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board</th>
<th>Connection by Faston Connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Diagram 1" /></td>
<td><img src="image2.png" alt="Diagram 2" /></td>
</tr>
</tbody>
</table>

1. Diameter on finished panel or support
2. 40 mm min. / 1.57 in. min.
3. 30 mm min. / 1.18 in. min.
4. Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $^{+0.4}_{-0.016}$ / 0.88 in. $^{+0.016}_{-0.016}$)
5. 45 mm min. / 1.78 in. min.
6. 32 mm min. / 1.26 in. min.