Complete illuminated push button, Harmony XB6, red sq projecting illum pushbutton Ø 16 spring return 1NO+1NC 12...24 V

XB6DE4B5B

Discontinued on: 02 December 2020
End-of-service on: 31 December 2020

Main
Range of Product Harmony XB6
Product or Component Type Complete illuminated push-button
Device short name XB6
Bezel material Plastic
Mounting diameter 0.63 in (16 mm)
Sale per indivisible quantity 1
Shape of signaling unit head Rectangular
Type of operator spring return
Operator profile Red projecting, unmarked
Contacts type and composition 1 NO + 1 NC
Contact operation Slow-break
Connections - terminals Faston connectors 2.8 x 0.5 mm
Light source LED
Bulb base Integral LED
[Us] rated supply voltage 12...24 V AC/DC

Complementary
CAD overall width 0.94 in (24 mm)
CAD overall height 0.71 in (18 mm)
CAD overall depth 2.40 in (61 mm)
Terminals description ISO n°1 (21-22)NC
(13-14)NO
Net Weight 0.06 lb(US) (0.025 kg)
Operating position Any position
Positive opening With EN/IEC 60947-5-1 appendix K
Operating travel 0.04 in (1 mm) NO changing electrical state
0.08 in (2 mm) NC changing electrical state
0.14 in (3.5 mm) total travel
Operating force 3.5 N NO changing electrical state

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.

Nov 30, 2023
### Contacts material
Silver alloy (Ag/Ni)

### Short-circuit protection
6 A cartridge fuse gG

### [U] rated insulation voltage
250 V 3)EN/IEC 60947-1

### [Uimp] rated impulse withstand voltage
4 kV EN/IEC 60947-1

### [Ie] rated operational current
- 3 A 120 V, AC-15, B300 EN/IEC 60947-5-1
- 1.5 A 240 V, AC-15, B300 EN/IEC 60947-5-1
- 0.1 A 250 V, DC-13, R300 EN/IEC 60947-5-1
- 0.22 A 125 V, DC-13, R300 EN/IEC 60947-5-1

### Electrical durability
- 1000000 cycles, AC-15 230 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C
- 1000000 cycles, DC-13 230 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C

### Electrical reliability
\( \Lambda = 10^{\exp(-8)} \) 5 V 1 mA with confidence level of 90 % IEC 60947-5-4

### Supply voltage limits
6…30 V AC/DC

### Current Consumption
15 mA

### Surge withstand
- 1 kV direct contact IEC 61000-4-5
- 2 kV in free air IEC 61000-4-5

### Environment

<table>
<thead>
<tr>
<th>Environmental Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective treatment</td>
<td>TC</td>
</tr>
<tr>
<td>Ambient Air Temperature for Storage</td>
<td>-40…158 °F (-40…70 °C)</td>
</tr>
<tr>
<td>Ambient air temperature for operation</td>
<td>-13…158 °F (-25…70 °C)</td>
</tr>
<tr>
<td>Electrical shock protection class</td>
<td>Class II IEC 61140</td>
</tr>
<tr>
<td>IP degree of protection</td>
<td>IP65 IEC 60529</td>
</tr>
<tr>
<td>NEMA degree of protection</td>
<td>NEMA 13 UL 50</td>
</tr>
<tr>
<td></td>
<td>NEMA 4 UL 50</td>
</tr>
<tr>
<td></td>
<td>NEMA 4X UL 50</td>
</tr>
<tr>
<td></td>
<td>NEMA 13 CSA C22.2 No 94</td>
</tr>
<tr>
<td></td>
<td>NEMA 4 CSA C22.2 No 94</td>
</tr>
<tr>
<td></td>
<td>NEMA 4X CSA C22.2 No 94</td>
</tr>
</tbody>
</table>

### Standards
- JIS C 4520
- JIS C 852
- EN/IEC 60947-1
- EN/IEC 60947-5-5
- CSA C22.2 No 14
- EN/IEC 60947-5-1
- JIS C 4520

### Product Certifications
- CSA
- UL
- CCC
- GOST

### Vibration resistance
+/- 3 mm 2…500 Hz)IEC 60068-2-6
5 gn 2…500 Hz)IEC 60068-2-6

### Shock resistance
- 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27
- 50 gn 11 ms) half sine wave acceleration IEC 60068-2-27

### Resistance to fast transients
2 kV IEC 61000-4-4

### Resistance to electromagnetic fields
- 9.14 V/m (10 V/m) IEC 61000-4-3

### Resistance to electrostatic discharge
- 6 kV on contact (on metal parts) IEC 61000-4-2
- 8 kV in free air (in insulating parts) IEC 61000-4-2

### Electromagnetic emission
- Class B IEC 55011

### Ordering and shipping details

<table>
<thead>
<tr>
<th>Category</th>
<th>22459-PUSHBUTTONS, 16MM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discount Schedule</td>
<td>CS2</td>
</tr>
</tbody>
</table>
## GTIN
3389110764185

## Returnability
Yes

## Country of origin
MX

### Packing Units

<table>
<thead>
<tr>
<th>Unit Type of Package 1</th>
<th>PCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Units in Package 1</td>
<td>1</td>
</tr>
<tr>
<td>Package 1 Height</td>
<td>0.98 in (2.5 cm)</td>
</tr>
<tr>
<td>Package 1 Width</td>
<td>1.38 in (3.5 cm)</td>
</tr>
<tr>
<td>Package 1 Length</td>
<td>3.35 in (8.5 cm)</td>
</tr>
<tr>
<td>Package 1 Weight</td>
<td>0.63 oz (18 g)</td>
</tr>
</tbody>
</table>

## Offer Sustainability

<table>
<thead>
<tr>
<th>Sustainable offer status</th>
<th>Green Premium product</th>
</tr>
</thead>
<tbody>
<tr>
<td>California proposition 65</td>
<td>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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a></td>
</tr>
<tr>
<td>REACh Regulation</td>
<td>REACh Declaration</td>
</tr>
<tr>
<td>EU RoHS Directive</td>
<td>Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration</td>
</tr>
<tr>
<td>Mercury free</td>
<td>Yes</td>
</tr>
<tr>
<td>China RoHS Regulation</td>
<td>China RoHS declaration</td>
</tr>
<tr>
<td>RoHS exemption information</td>
<td>Yes</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 |
Rectangular Head Pushbutton

Dimensions

- Panel thickness 1 to 6 mm/0.03 to 2.48 in.
Panel Cut-out

For Rectangular Head

Harmony 16 mm XB6/ZB6 Plastic Push Buttons
16 mm XB6/ZB6 plastic monolithic and modular push buttons, selector switches, and pilot lights

Recommended replacement(s)

XB6DE4B5B is replaced by the following product range: