## Product data sheet

Specifications


Illuminated push button, Harmony XB5, plastic, orange flush, 22 mm , universal LED, plain lens, 1NO + 1NC, 24V AC DC

XB5AW35B5

Important message : A change in appearance may be noted on the product but does not affect its use in terms of function and safety. This makes it compatible with our Universal LED blocks

Main

| Range of product | Harmony XB5 |
| :---: | :---: |
| Product or component type | Illuminated push-button |
| Device short name | XB5 |
| Bezel material | Dark grey plastic |
| Fixing collar material | Plastic |
| Head type | Standard |
| Mounting diameter | 22 mm |
| Sale per indivisible quantity | 1 |
| Shape of signaling unit head | Round |
| Type of operator | spring return |
| Operator profile | Orange flush, unmarked |
| Operator additional information | With plain lens |
| Contacts type and composition | $1 \mathrm{NO}+1 \mathrm{NC}$ |
| Contact operation | Slow-break |
| Connections - terminals | Screw clamp terminals, $<=2 \times 1.5 \mathrm{~mm}^{2}$ with cable end conforming to EN/IEC 60947-1 Screw clamp terminals, $1 \times 0.22 \ldots 2 \times 2.5 \mathrm{~mm}^{2}$ without cable end conforming to EN/IEC 60947-1 |
| Light source | Universal LED |
| Bulb base | Integral LED |
| [Us] rated supply voltage | 24 V AC/DC $50 / 60 \mathrm{~Hz}$ |
| Cap/Operator or lens colour | Orange |

Complementary

| Height | 42 mm |
| :--- | :--- |
| Width | 30 mm |
| Depth | 57 mm |
| Terminals description ISO $\mathrm{n}^{\circ} 1$ | $(13-14) \mathrm{NO}$ <br> $(21-22) \mathrm{NC}$ |
| Net weight | 0.056 kg |


| Resistance to high pressure washer | 7000000 Pa at $55^{\circ} \mathrm{C}$, distance $: 0.1 \mathrm{~m}$ |
| :---: | :---: |
| Contacts usage | Standard contacts |
| Positive opening | With conforming to EN/IEC 60947-5-1 appendix K |
| Operating travel | 1.5 mm (NC changing electrical state) 2.6 mm ( NO changing electrical state) 4.3 mm (total travel) |
| Operating force | 3.5 N NC changing electrical state 3.8 N |
| Mechanical durability | 10000000 cycles |
| Tightening torqu | 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 $\varnothing 4 \mathrm{~mm}$ 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 |
| [U | 600 V (pollution degree 3) conforming to EN/IEC 60947-1 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to EN/IEC 60947-1 |
| [le] rated operational current | 3 A at $240 \mathrm{~V}, \mathrm{AC}-15$, A 600 conforming to EN/IEC 60947-5-1 6 A at $120 \mathrm{~V}, \mathrm{AC}-15, \mathrm{~A} 600$ conforming to EN/IEC 60947-5-1 0.1 A at $600 \mathrm{~V}, \mathrm{DC}-13$, Q600 conforming to EN/IEC 60947-5-1 0.27 A at $250 \mathrm{~V}, \mathrm{DC}-13, \mathrm{Q} 600$ conforming to EN/IEC 60947-5-1 0.55 A at $125 \mathrm{~V}, \mathrm{DC}-13, \mathrm{Q} 600$ conforming to EN/IEC 60947-5-1 1.2 A at $600 \mathrm{~V}, \mathrm{AC}-15$, A600 conforming to EN/IEC 60947-5-1 |
| Electrical durability | 1000000 cycles, AC-15, 2 A at 230 V , operating rate $<3600 \mathrm{cyc} / \mathrm{h}$, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C <br> 1000000 cycles, AC-15, 3 A at 120 V , operating rate $<3600 \mathrm{cyc} / \mathrm{h}$, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C <br> 1000000 cycles, AC-15, 4 A at 24 V , operating rate $<3600 \mathrm{cyc} / \mathrm{h}$, load factor: 0.5 conforming to EN/IEC 60947-5-1 appendix C <br> 1000000 cycles, DC-13, 0.2 A at 110 V , operating rate $<3600 \mathrm{cyc} / \mathrm{h}$, load factor: 0.5 conforming to EN/ IEC 60947-5-1 appendix C <br> 1000000 cycles, DC-13, 0.5 A at 24 V , operating rate $<3600 \mathrm{cyc} / \mathrm{h}$, load factor: 0.5 conforming to EN/ IEC 60947-5-1 appendix C |
| Electrical reliability | $\Lambda<10 \exp (-6)$ at $5 \mathrm{~V}, 1 \mathrm{~mA}$ in clean environment conforming to EN/IEC 60947-5-4 $\Lambda<10 \exp (-8)$ at $17 \mathrm{~V}, 5 \mathrm{~mA}$ in clean environment conforming to EN/IEC 60947-5-4 |
| Signalling type | Steady |
| Supply voltage limits | $\begin{aligned} & 19.2 \ldots 30 \mathrm{~V} \text { DC } \\ & 21.6 \ldots . .26 .4 \mathrm{~V} \mathrm{AC} \end{aligned}$ |
| Current consumption | 18 mA |
| Service life | 100000 h at rated voltage and $25^{\circ} \mathrm{C}$ |
| Surge withstand | 1 kV conforming to IEC 61000-4-5 |
| Device presentation | Complete product |
| Environment |  |
| Protective treatment | TH |
| Ambient air temperature for storage | $-40 \ldots .70{ }^{\circ} \mathrm{C}$ |
| Ambient air temperature for operation | $-40 \ldots 70{ }^{\circ} \mathrm{C}$ |
| Overvoltage category | Class II conforming to IEC 60536 |
| IP degree of protection | IP66 conforming to IEC 60529 IP69 IP69K <br> IP67 |


| NEMA degree of protection | NEMA 13 <br> NEMA 4X |
| :--- | :--- |
| IK degree of protection | IK05 conforming to IEC 50102 |
| Standards | UL 508 |
|  | EN/IEC 60947-5-4 |
|  | ENIEC 60947-1 |
|  | CSA C22.2 No 14 |
|  | ENS C8201-5-1 |
|  | JIS C8201-1 |

## 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 | 55.400 g |
| Unit Type of Package 2 | 502 |
| Number of Units in Package 2 | 50 |
| Package 2 Height | 15.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 3.014 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 800 |
| Package 3 Height | 75.000 cm |
| Package 3 Width | 80.000 cm |
| Package 3 Length | 60.000 cm |
| Package 3 Weight | 56.217 kg |

Offer Sustainability

| Sustainable offer status | Green Premium product |
| :--- | :--- |
| REACh Regulation | REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) <br> EU RoHS Declaration |


| Mercury free | Yes |
| :--- | :--- |
| China RoHS Regulation | China RoHS declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and <br> never end up in rubbish bins |
| California proposition $\mathbf{6 5}$ | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is <br> known to the State of California to cause cancer and birth defects or other reproductive harm. For more <br> information go to www.P65Warnings.ca.gov |

## Contractual warranty

Warranty
18 months

## XB5AW35B5

Dimensions Drawings

## Dimensions


e: clamping thickness: 1 to $6 \mathrm{~mm} / 0.04$ to 0.24 in.
(1) Additional row of contacts or double contact.

## Product data sheet

## XB5AW35B5

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) $\varnothing 22.5 \mathrm{~mm}$ recommended $\left(\varnothing 22.30^{+0.4}\right) / \varnothing 0.89 \mathrm{in}$. recommended ( $\varnothing 0.88 \mathrm{in} .0^{+0.016}$ )

| 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) $\varnothing 22.5 \mathrm{~mm}$ recommended $\left(\varnothing 22 . \mathrm{O}^{+0.4}\right) / \varnothing 0.89 \mathrm{in}$. recommended ( $\left.\varnothing 0.88 \mathrm{in} .0^{+0.016}\right)$

Product data sheet
XB5AW35B5
Technical Illustration

Dimensions
$\frac{\mathrm{mm}}{\mathrm{in} .}$

ZBE••••• ZBV••••

ZBE・ゃゃゃゃ3 ZBV••••3

ZBEゃゃゃゃゃ9 ZBV・ゃゃゃ9

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $Z B R T$ |  | 1.57 | 30 | 1.18 |
| ZBRV1 |  |  |  |  |

Recommended replacement（s）

