

# XB4BW33G5

Harmony, 22mm illuminated push button, flush, green, spring return, 120 V, 1 NO and 1 NC

Product availability: Stock - Normally stocked in distribution facility



## Main

|                                 |                                                                                                                                                                                                                              |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                | Harmony XB4                                                                                                                                                                                                                  |
| Product or component type       | Illuminated push-button                                                                                                                                                                                                      |
| Device short name               | XB4                                                                                                                                                                                                                          |
| Bezel material                  | Chromium plated metal                                                                                                                                                                                                        |
| Fixing collar material          | Zamak                                                                                                                                                                                                                        |
| Mounting diameter               | 0.87 in (22 mm)                                                                                                                                                                                                              |
| Sale per indivisible quantity   | 1                                                                                                                                                                                                                            |
| Head type                       | Standard                                                                                                                                                                                                                     |
| Shape of signaling unit head    | Round                                                                                                                                                                                                                        |
| Type of operator                | Spring return                                                                                                                                                                                                                |
| Operator profile                | Green flush                                                                                                                                                                                                                  |
| Operator additional information | With plain lens                                                                                                                                                                                                              |
| Contacts type and composition   | 1 NO + 1 NC                                                                                                                                                                                                                  |
| Contact operation               | Slow-break                                                                                                                                                                                                                   |
| Connections - terminals         | Screw clamp terminals: $\leq 2 \times 1.5 \text{ mm}^2$ with cable end conforming to EN/IEC 60947-1<br>Screw clamp terminals: $1 \times 0.22 \dots 2 \times 2.5 \text{ mm}^2$ without cable end conforming to EN/IEC 60947-1 |
| Light source                    | Protected LED                                                                                                                                                                                                                |
| Bulb base                       | Integral LED                                                                                                                                                                                                                 |
| [Us] rated supply voltage       | 110...120 V AC 50/60 Hz                                                                                                                                                                                                      |

## Complementary

|                                    |                                                                                                                                                                                                                               |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Height                             | 1.85 in (47 mm)                                                                                                                                                                                                               |
| Width                              | 1.18 in (30 mm)                                                                                                                                                                                                               |
| Depth                              | 2.24 in (57 mm)                                                                                                                                                                                                               |
| Terminals description ISO n°1      | (13-14)NO<br>(21-22)NC                                                                                                                                                                                                        |
| Product weight                     | 0.21 lb(US) (0.097 kg)                                                                                                                                                                                                        |
| Resistance to high pressure washer | 1015.26 psi (7000000 Pa) at 131 °F (55 °C), distance: 0.1 m                                                                                                                                                                   |
| Contacts usage                     | Standard contacts                                                                                                                                                                                                             |
| Positive opening                   | With positive opening conforming to EN/IEC 60947-5-1 appendix K                                                                                                                                                               |
| Operating travel                   | 0.06 in (1.5 mm) (NC changing electrical state)<br>0.1 in (2.6 mm) (NO changing electrical state)<br>0.17 in (4.3 mm) (total travel)                                                                                          |
| Operating force                    | 3.5 N (NC changing electrical state)<br>3.8 N                                                                                                                                                                                 |
| Mechanical durability              | 10000000 cycles                                                                                                                                                                                                               |
| Tightening torque                  | 7.08...10.62 lbf.in (0.8...1.2 N.m) conforming to EN 60947-1                                                                                                                                                                  |
| Shape of screw head                | Cross head compatible with Philips no 1 screwdriver<br>Cross head compatible with pozidriv No 1 screwdriver<br>Slotted head compatible with flat Ø 4 mm screwdriver<br>Slotted head 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 (degree of pollution: 3) conforming to EN/IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| [Uimp] rated impulse withstand voltage      | 6 kV conforming to EN/IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [Ie] rated operational current              | 3 A at 240 V, AC-15, A600 conforming to EN/IEC 60947-5-1<br>6 A at 120 V, AC-15, A600 conforming to EN/IEC 60947-5-1<br>0.1 A at 600 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>0.27 A at 250 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>0.55 A at 125 V, DC-13, Q600 conforming to EN/IEC 60947-5-1<br>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/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 EN/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 EN/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 EN/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 EN/IEC 60947-5-1 appendix C |
| Electrical reliability                      | $\Lambda < 10\exp(-6)$ at 5 V, 1 mA in clean environment conforming to EN/IEC 60947-5-4<br>$\Lambda < 10\exp(-8)$ at 17 V, 5 mA in clean environment conforming to EN/IEC 60947-5-4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Signalling type                             | Steady                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Supply voltage limits                       | 100...132 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Current consumption                         | 14 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Service life                                | 100000 h at rated voltage and 25 °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...158 °F (-40...70 °C)                                                                                                                                             |
| Ambient air temperature for operation | -40...158 °F (-40...70 °C)                                                                                                                                             |
| Electrical shock protection class     | Class I conforming to IEC 60536                                                                                                                                        |
| IP degree of protection               | IP69<br>IP67<br>IP66 conforming to IEC 60529<br>IP69K                                                                                                                  |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                                                                     |
| IK degree of protection               | IK06 conforming to IEC 50102                                                                                                                                           |
| Standards                             | JIS C 4520<br>EN/IEC 60947-5-1<br>UL 508<br>CSA C22.2 No 14<br>EN/IEC 60947-1<br>EN/IEC 60947-5-5<br>EN/IEC 60947-5-4                                                  |
| Product certifications                | CSA<br>GL<br>LROS (Lloyds register of shipping)<br>BV<br>RINA<br>UL listed<br>DNV                                                                                      |
| Vibration resistance                  | 5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6                                                                                                                      |
| Shock resistance                      | 30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27<br>50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC 60068-2-27 |
| Resistance to fast transients         | 2 kV conforming to IEC 61000-4-4                                                                                                                                       |
| Resistance to electromagnetic fields  | 9.14 V/yd (10 V/m) conforming to IEC 61000-4-3                                                                                                                         |
| Resistance to electrostatic discharge | 6 kV on contact (on metal parts) conforming to IEC 61000-4-2<br>8 kV in free air (in insulating parts) conforming to IEC 61000-4-2                                     |
| Electromagnetic emission              | Class B conforming to IEC 55011                                                                                                                                        |

### Ordering and shipping details

|                       |                                     |
|-----------------------|-------------------------------------|
| Category              | 22468 - PUSHBUTTONS,22MM(METAL) NEW |
| Discount Schedule     | CS2                                 |
| GTIN                  | 00785901381495                      |
| Nbr. of units in pkg. | 1                                   |
| Package weight(Lbs)   | 0.22                                |
| Returnability         | Y                                   |
| Country of origin     | FR                                  |

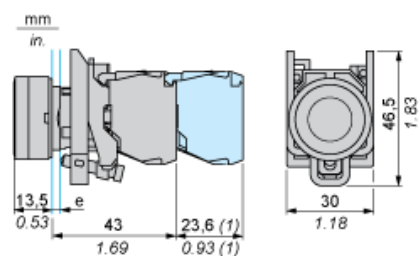
### Offer Sustainability

|                            |                                                                                                                                  |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| California proposition 65  | WARNING: This product can expose you to chemicals including:                                                                     |
| - - - - - Substance 1      | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. |
| - - - - - More information | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    |

### Contractual warranty

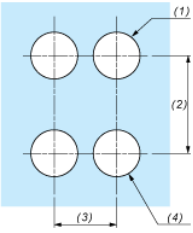
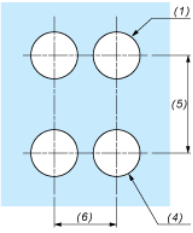
|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

## Dimensions



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

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                                                                                                                                                                                                                                           | Connection by Faston Connectors                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                |  |
| <p>(1) Diameter on finished panel or support</p> <p>(2) 40 mm min. / 1.57 in. min.</p> <p>(3) 30 mm min. / 1.18 in. min.</p> <p>(4) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm <math>_{0}^{+0.4}</math> / 0.88 in. <math>_{0}^{+0.016}</math>)</p> <p>(5) 45 mm min. / 1.78 in. min.</p> <p>(6) 32 mm min. / 1.26 in. min.</p> |                                                                                    |

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