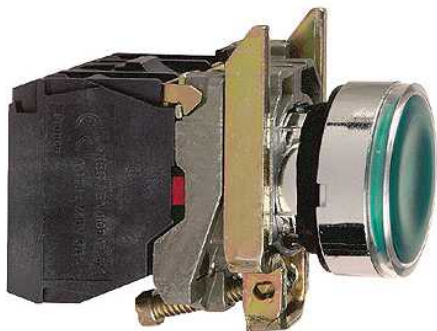


# XB4BW33B5

green flush complete illum pushbutton Ø22  
spring return 1NO+1NC 24V



## Main

|                                 |  |
|---------------------------------|--|
| Range of product                | Harmony XB4  |
| Product or component type       | Complete illuminated pushbutton  |
| Device short name               | XB4  |
| Bezel material                  | Chromium plated metal  |
| Fixing collar material          | Zamak  |
| Mounting diameter               | 22 mm  |
| Sale per indivisible quantity   | 1  |
| 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  |
| Contacts 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       | 24 V AC/DC, 50/60 Hz   |

## Complementary

|   |   |
|---|---|
| Height                                      | 47 mm   |
| Width                                       | 30 mm   |
| Depth                                       | 57 mm   |
| Terminals description ISO n°1               | (13-14)NO<br>(21-22)NC  |
| Product weight                              | 0.097 kg  |
| Resistance to high pressure washer          | 7000000 Pa at 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                            | 1.5 mm (NC changing electrical state)<br>2.6 mm (NO changing electrical state)<br>4.3 mm (total travel)   |
| Operating force                             | 3.5 N (NC changing electrical state)<br>3.8 N   |
| Mechanical durability                       | 5000000 cycles  |
| Tightening torque                           | 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 IEC 60947-5-4   | $\Lambda < 10\exp(-6)$ 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                  | 21.6...26.4 V AC  |
| Current consumption                    | 18 mA   |
| Service life                           | 100000 h at rated voltage and 25 °C   |
| Surge withstand                        | 1 kV conforming to IEC 61000-4-5  |

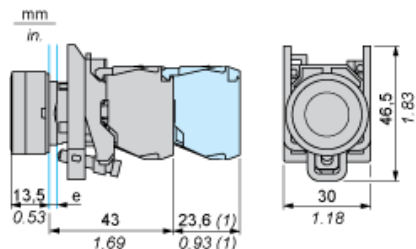
## Environment

|  |  |
|--|--|
| Protective treatment                       | TH   |
| Ambient air temperature for storage        | -40...70 °C  |
| Ambient air temperature for operation      | -25...70 °C  |
| Class of protection against electric shock | Class I conforming to IEC 60536  |
| IP degree of protection                    | IP66 conforming to IEC 60529   |
| NEMA degree of protection                  | NEMA 13<br>NEMA 4X   |
| IK degree of protection                    | IK05 conforming to IEC 50102   |
| Standards                                  | CSA C22-2 No 14<br>EN/IEC 60947-1<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-5<br>JIS C 4520<br>UL 508                                |
| Product certifications                     | BV<br>CSA<br>DNV<br>GL<br>LROS (Lloyds register of shipping)<br>RINA<br>UL listed  |
| Vibration resistance                       | 5 gn (f = 2...500 Hz) conforming to IEC 60068-2-6  |
| Shock resistance                           | 30 gn for 18 ms half sine wave acceleration conforming to IEC 60068-2-27<br>50 gn for 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       | 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  |
| RoHS EUR status                            | Compliant  |
| RoHS EUR conformity date                   | 0727   |

Dimensions of Illuminated Spring Return Pushbuttons

Integral LED

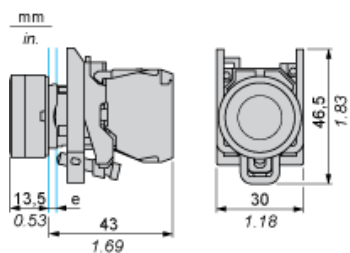
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e: clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.  
(1) Additional row of contacts or double contact

Direct Supply

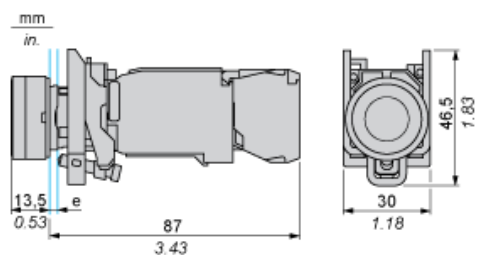
XB4 BW3•65



e: clamping thickness: 1 to 6 mm / 0.04 to 0.24 in.

Via Integral Transformer

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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)

| 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<br/>           (2) 40 mm min. / 1.57 in. min.<br/>           (3) 30 mm min. / 1.18 in. min.<br/>           (4) <math>\varnothing 22.5 \text{ mm} / 0.89 \text{ in.}</math> recommended (<math>\varnothing 22.3 \text{ mm}_0^{+0.4} / 0.88 \text{ in.}_0^{+0.016}</math>)<br/>           (5) 45 mm min. / 1.78 in. min.<br/>           (6) 32 mm min. / 1.26 in. min.</p> |  |