

# XB5FW31M5

Harmony XB5, Illuminated push button flush mounted, plastic, white, Ø30, integral LED, 230...240 V AC, 1 NO + 1 NC



## Main

|                                 |                                                                                                                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product                | Harmony XB5                                                                                                                                                                                                              |
| Product or component type       | Illuminated push-button                                                                                                                                                                                                  |
| Device short name               | XB5F                                                                                                                                                                                                                     |
| Bezel material                  | Dark grey plastic                                                                                                                                                                                                        |
| Fixing collar material          | Plastic                                                                                                                                                                                                                  |
| Head type                       | Built-in-flush                                                                                                                                                                                                           |
| Mounting diameter               | 30.5 mm                                                                                                                                                                                                                  |
| Sale per indivisible quantity   | 1                                                                                                                                                                                                                        |
| Shape of signaling unit head    | Round                                                                                                                                                                                                                    |
| Type of operator                | Spring return                                                                                                                                                                                                            |
| Operator profile                | White flush, unmarked                                                                                                                                                                                                    |
| 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, $1 \times 0.22...2 \times 2.5 \text{ mm}^2$ without cable end conforming to EN/IEC 60947-1 |
| Light source                    | Protected LED                                                                                                                                                                                                            |
| Bulb base                       | Integral LED                                                                                                                                                                                                             |
| [Us] rated supply voltage       | 220...240 V AC 50/60 Hz                                                                                                                                                                                                  |
| [Us] rated supply voltage       | 220...240 V                                                                                                                                                                                                              |
| Cap/operator or lens colour     | White                                                                                                                                                                                                                    |

## Complementary

|                                    |                                                                                                         |
|------------------------------------|---------------------------------------------------------------------------------------------------------|
| Height                             | 42 mm                                                                                                   |
| Width                              | 36.6 mm                                                                                                 |
| Depth                              | 55 mm                                                                                                   |
| Terminals description ISO n°1      | (21-22)NC<br>(13-14)NO                                                                                  |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance : 0.1 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)<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              | 10000000 cycles                                                                                         |
| Tightening torque                  | 0.8...1.2 N.m conforming to EN 60947-1                                                                  |

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|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shape of screw head                                      | Cross compatible with Philips no 1 screwdriver<br>Cross compatible with pozidriv No 1 screwdriver<br>Slotted compatible with flat Ø 4 mm screwdriver<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| [I <sub>th</sub> ] conventional free air thermal current | 10 A conforming to EN/IEC 60947-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [U <sub>i</sub> ] rated insulation voltage               | 600 V (pollution degree 3) conforming to EN/IEC 60947-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | EN/IEC 60947-1 6 kV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| [I <sub>e</sub> ] 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                                    | 195...264 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...70 °C                                                                                                                                                                    |
| Ambient air temperature for operation | -40...70 °C                                                                                                                                                                    |
| Overvoltage category                  | Class II conforming to IEC 60536                                                                                                                                               |
| IP degree of protection               | IP66 conforming to IEC 60529<br>IP67<br>IP69<br>IP69K                                                                                                                          |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                                                                             |
| IK degree of protection               | IK03 conforming to IEC 50102                                                                                                                                                   |
| Standards                             | EN/IEC 60947-1<br>UL 508<br>JIS C8201-5-1<br>EN/IEC 60947-5-4<br>EN/IEC 60947-5-1<br>CSA C22.2 No 14<br>JIS C8201-1                                                            |
| Product certifications                | UL listed<br>CSA                                                                                                                                                               |
| 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<br>50 gn (duration = 11 ms) for 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                                                                                                                                                |

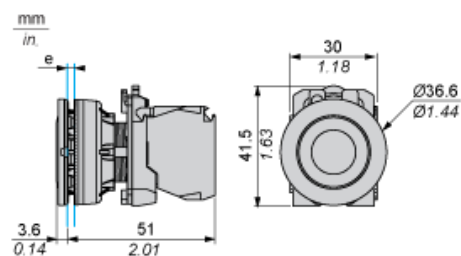
## Packing Units

|                              |        |
|------------------------------|--------|
| Unit Type of Package 1       | PCE    |
| Number of Units in Package 1 | 1      |
| Package 1 Weight             | 52 g   |
| Package 1 Height             | 4.3 cm |
| Package 1 width              | 5.3 cm |
| Package 1 Length             | 8.6 cm |

## Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| REACH free of SVHC         | Yes                                                                                                                         |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                              |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                      |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Dimensions



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



(1) Diameter on finished panel or support

(2)  $\varnothing 30.75$  mm recommended ( $\varnothing 30.5 \text{ }_0^{+0.5}$ ) /  $\varnothing 1.21$  in. recommended ( $\varnothing 1.20 \text{ in. }_0^{+0.0196}$ )

| Connections                                   | a in mm | a in in. | b in mm | b in in. |
|-----------------------------------------------|---------|----------|---------|----------|
| By screw clamp terminals or plug-in connector | 40      | 1.57     | 40      | 1.57     |
| By Faston connectors                          | 45      | 1.77     | 40      | 1.57     |

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Electrical Composition Corresponding to Codes M1 and M7

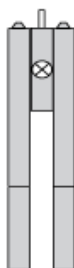
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Electrical Composition Corresponding to Codes M2 and M8

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Electrical Composition Corresponding to Codes M6 and P2

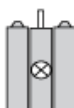
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Electrical Composition Corresponding to Codes M5, M10, MF1, MR1 and MF2

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Legend

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Single contact



Double contact



Light block



Possible location

