

# XB5FD53

Harmony XB5, Antimicrobial Selector switch  
flush mounted, plastic, black, Ø30, 3 positions,  
spring return to center, 2NO



## Main

|                               |                                                                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of Product              | Harmony XB5                                                                                                                                                            |
| Product or Component Type     | Selector switch                                                                                                                                                        |
| Device short name             | XB5F                                                                                                                                                                   |
| Bezel material                | Dark grey plastic                                                                                                                                                      |
| Head type                     | Built-in-flush                                                                                                                                                         |
| Mounting diameter             | 1.20 in (30.5 mm)                                                                                                                                                      |
| Sale per indivisible quantity | 1                                                                                                                                                                      |
| Shape of signaling unit head  | Round                                                                                                                                                                  |
| Type of operator              | To centre spring return                                                                                                                                                |
| Operator profile              | Black standard handle, unmarked                                                                                                                                        |
| Operator position information | 3 positions +/- 45°                                                                                                                                                    |
| Contacts type and composition | 2 NO                                                                                                                                                                   |
| Contact operation             | Slow-break                                                                                                                                                             |
| Connections - terminals       | Screw clamp terminals, <= 2 x 1.5 mm <sup>2</sup> with cable end EN/IEC 60947-1<br>Screw clamp terminals, >= 1 x 0.22 mm <sup>2</sup> without cable end EN/IEC 60947-1 |

## Complementary

|                                                          |                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Height                                                   | 1.65 in (42 mm)                                                                                                                                                                                                                                                          |
| Width                                                    | 1.44 in (36.6 mm)                                                                                                                                                                                                                                                        |
| Depth                                                    | 2.87 in (73 mm)                                                                                                                                                                                                                                                          |
| Terminals description ISO n°1                            | (13-14)NO<br>(23-24)NO                                                                                                                                                                                                                                                   |
| Resistance to high pressure washer                       | 1015.26 psi (7000000 Pa) 131 °F (55 °C) 0.1 m                                                                                                                                                                                                                            |
| Contacts usage                                           | Standard contacts                                                                                                                                                                                                                                                        |
| Positive opening                                         | Without                                                                                                                                                                                                                                                                  |
| Mechanical durability                                    | 1000000 cycles                                                                                                                                                                                                                                                           |
| Tightening torque                                        | 7.08...10.62 lbf.in (0.8...1.2 N.m) EN 60947-1                                                                                                                                                                                                                           |
| Shape of screw head                                      | Cross Philips no 1<br>Cross pozidriv No 1<br>Slotted flat Ø 4 mm<br>Slotted flat Ø 5.5 mm                                                                                                                                                                                |
| Contacts material                                        | Silver alloy (Ag/Ni)                                                                                                                                                                                                                                                     |
| Short-circuit protection                                 | 10 A cartridge fuse gG EN/IEC 60947-5-1                                                                                                                                                                                                                                  |
| [I <sub>th</sub> ] conventional free air thermal current | 10 A EN/IEC 60947-5-1                                                                                                                                                                                                                                                    |
| [U <sub>i</sub> ] rated insulation voltage               | 600 V 3)EN 60947-1                                                                                                                                                                                                                                                       |
| [U <sub>imp</sub> ] rated impulse withstand voltage      | 6 kV EN 60947-1                                                                                                                                                                                                                                                          |
| [I <sub>e</sub> ] rated operational current              | 3 A 240 V, AC-15, A600 EN/IEC 60947-5-1<br>6 A 120 V, AC-15, A600 EN/IEC 60947-5-1<br>0.1 A 600 V, DC-13, Q600 EN/IEC 60947-5-1<br>0.27 A 250 V, DC-13, Q600 EN/IEC 60947-5-1<br>0.55 A 125 V, DC-13, Q600 EN/IEC 60947-5-1<br>1.2 A 600 V, AC-15, A600 EN/IEC 60947-5-1 |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical durability  | 1000000 Cycles, AC-15, 2 A 230 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 Cycles, AC-15, 3 A 120 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 Cycles, AC-15, 4 A 24 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 Cycles, DC-13, 0.2 A 110 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C<br>1000000 cycles, DC-13, 0.5 A 24 V 3600 cyc/h 0.5 EN/IEC 60947-5-1 appendix C |
| Electrical reliability | $\Lambda < 10\exp(-6)$ 5 V, 1 mA in clean environment EN/IEC 60947-5-4<br>$\Lambda < 10\exp(-8)$ 17 V, 5 mA in clean environment EN/IEC 60947-5-4                                                                                                                                                                                                                                                         |
| 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 II IEC 60536                                                                                                                                 |
| IP degree of protection               | IP66 IEC 60529<br>IP67<br>IP69<br>IP69K                                                                                                            |
| NEMA degree of protection             | NEMA 13<br>NEMA 4X                                                                                                                                 |
| IK degree of protection               | IK03 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<br>ISO 21702<br>ISO 22196:2011 |
| Product Certifications                | UL Listed<br>CSA                                                                                                                                   |
| Vibration resistance                  | 5 gn 2...500 Hz)IEC 60068-2-6                                                                                                                      |
| Shock resistance                      | 30 gn 18 ms) half sine wave acceleration IEC 60068-2-27<br>50 gn 11 ms) half sine wave acceleration IEC 60068-2-27                                 |

## Ordering and shipping details

|                       |                                       |
|-----------------------|---------------------------------------|
| Category              | 22467 - PUSHBUTTONS,22MM(PLASTIC) NEW |
| Discount Schedule     | CS2                                   |
| GTIN                  | 3606481360588                         |
| Nbr. of units in pkg. | 1                                     |
| Package weight(Lbs)   | 2.08 oz (59 g)                        |
| Returnability         | Yes                                   |

## Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 1.69 in (4.3 cm)       |
| Package 1 width              | 2.09 in (5.3 cm)       |
| Package 1 Length             | 3.39 in (8.6 cm)       |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 40                     |
| Package 2 Weight             | 5.65 lb(US) (2.563 kg) |
| Package 2 Height             | 5.91 in (15 cm)        |
| Package 2 width              | 11.81 in (30 cm)       |
| Package 2 Length             | 15.75 in (40 cm)       |

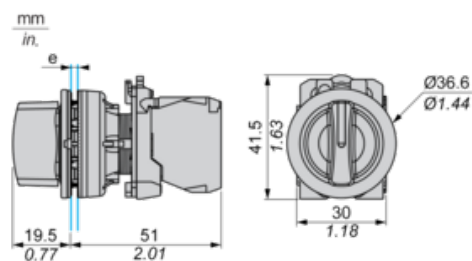
## Offer Sustainability

|                            |                                                                                                                                                                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                                                                                                                                                                                 |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| 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>                                                                                                                                                                                        |
| Toxic heavy metal free     | Yes                                                                                                                                                                                                                                                                                   |
| 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.                                                                                                                                                          |

## Contractual warranty

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

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

| 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 Code C3

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Electrical Composition Corresponding to Code C4

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Electrical Composition Corresponding to Code C5

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Electrical Composition Corresponding to Code C6

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Electrical Composition Corresponding to Code C7

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## Electrical Composition Corresponding to Code C8

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## Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1

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## Electrical Composition Corresponding to Code C15

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1 N/O

1 N/C

1 N/O + N/C or 1 N/O + N/O or 1 N/C + N/C

## Legend

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Single contact

Double contact

Light block

Possible location



Sequence of Contacts Fitted to 2-position Selector Switch Body

Position 315°



|          |                                                                                   |                                                                                   |                                                                                    |        |      |
|----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------|------|
| Push     | Position                                                                          | Top                                                                               |  |        |      |
| Bottom   |  |  |   |        |      |
| Location |                                                                                   | Left                                                                              | Centre                                                                             | Right  |      |
| State    |                                                                                   | 0                                                                                 | 0                                                                                  | 0      |      |
| Contacts | N/O                                                                               |                                                                                   | open                                                                               | open   | open |
| N/C      |                                                                                   | closed                                                                            | closed                                                                             | closed |      |

Position 45°



|          |             |      |        |        |        |
|----------|-------------|------|--------|--------|--------|
| Push     | Position    | Top  |        |        |        |
| Bottom   | <div></div> |      |        |        |        |
| Location |             | Left | Centre | Right  |        |
| State    |             | 1    | 1      | 1      |        |
| Contacts | N/O         |      | closed | closed | closed |
| N/C      |             | open | open   | open   |        |

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