

## ZB4BG2

Harmony XB4, Key switch selector head, metal, black, Ø22, key 455, 2 positions, stay put



### Main

|                               |                              |
|-------------------------------|------------------------------|
| Range of product              | Harmony XB4                  |
| Product or component type     | Head for key selector switch |
| Device short name             | ZB4                          |
| Bezel material                | Chromium plated metal        |
| Mounting diameter             | 22 mm                        |
| Head type                     | Standard                     |
| Sale per indivisible quantity | 1                            |
| Shape of signaling unit head  | Round                        |
| Operator profile              | Black key switch             |
| Operator position information | 2 positions 90°              |
| Type of keylock               | Key 455                      |
| Key withdrawal position       | Left                         |

### Complementary

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CAD overall width                  | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CAD overall height                 | 29 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| CAD overall depth                  | 72 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Product weight                     | 0.098 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Resistance to high pressure washer | 7000000 Pa at 55 °C, distance : 0.1 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mechanical durability              | 1000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Electrical composition code        | C3 for <6 contacts using single blocks in front mounting<br>C4 for <6 contacts using single and double blocks in front mounting<br>C5 for <5 contacts using single blocks in front mounting<br>C6 for <5 contacts using single and double blocks in front mounting<br>C7 for <4 contacts using single blocks in front mounting<br>C8 for <4 contacts using single and double blocks in front mounting<br>C11 for <3 contacts using single blocks in front mounting<br>C15 for <1 contacts using single blocks in front mounting |
| Device presentation                | Basic element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

### Environment

|                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| Protective treatment                  | TH                                                    |
| Ambient air temperature for storage   | -40...70 °C                                           |
| Ambient air temperature for operation | -40...70 °C                                           |
| Overvoltage category                  | Class I 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               | IK06 with keyhole cover ZBGP conforming to IEC 50102  |

|                        |                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards              | EN/IEC 60947-1<br>GB 14048.5<br>EN/IEC 60947-5-5<br>EN/IEC 60947-5-1<br>EN/IEC 60947-5-4<br>UL 508<br>CSA C22.2 No 14                                                          |
| Product certifications | DNV<br>GL<br>LROS (Lloyds register of shipping)<br>CSA<br>BV<br>UL listed                                                                                                      |
| 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 |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 3.800 cm  |
| Package 1 Width              | 5.400 cm  |
| Package 1 Length             | 9.100 cm  |
| Package 1 Weight             | 104.000 g |
| Unit Type of Package 2       | S03       |
| Number of Units in Package 2 | 100       |
| Package 2 Height             | 30.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 10.784 kg |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 800       |
| Package 3 Height             | 77.000 cm |
| Package 3 Width              | 80.000 cm |
| Package 3 Length             | 60.000 cm |
| Package 3 Weight             | 99.004 kg |

## Offer Sustainability

|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                          |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                              |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                            |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                            |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                  |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                        |

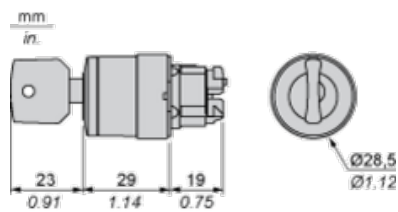
## Contractual warranty

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

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Dimensions

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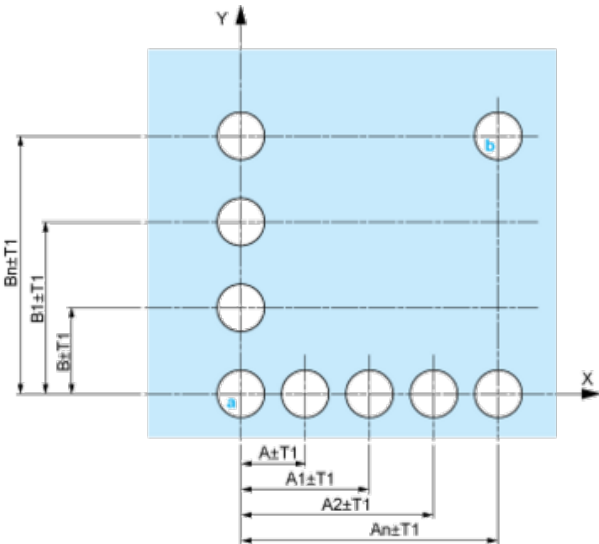


Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)

| Connection by Screw Clamp Terminals or Plug-in Connectors or on Printed Circuit Board                                                                                                                                                                                           | Connection by Faston Connectors |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|                                                                                                                                                                                                                                                                                 |                                 |
| (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) Ø 22.5 mm / 0.89 in. recommended (Ø 22.3 mm $_{0}^{+0.4}$ / 0.88 in. $_{0}^{+0.016}$ )<br>(5) 45 mm min. / 1.78 in. min.<br>(6) 32 mm min. / 1.26 in. min. |                                 |

Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

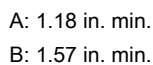
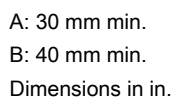
Panel Cut-outs (Viewed from Installer's Side)

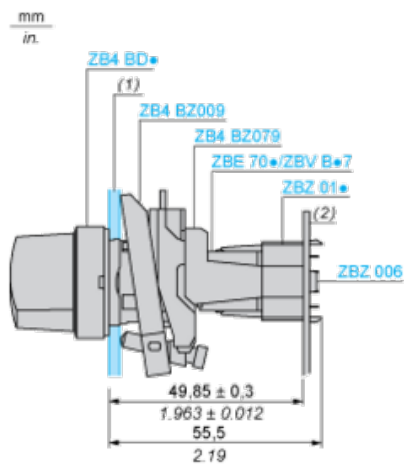


A: 30 mm min. / 1.18 in. min.  
 B: 40 mm min. / 1.57 in. min.

Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm





(1) Panel

(2) Printed circuit board

### Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  for centring adapter ZBZ 01•
- 3 8 ×  $\varnothing 1.2 \text{ mm} / 0.05 \text{ in.}$  holes
- 4 1 hole  $\varnothing 2.9 \text{ mm} \pm 0.05 / 0.11 \text{ in.} \pm 0.002$ , for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes  $\varnothing 2.4 \text{ mm} / 0.09 \text{ in.}$  for clipping in adapter ZBZ 01•

Dimensions An + 18.1 relate to the  $\varnothing 2.4 \text{ mm} \pm 0.05 / 0.09 \text{ in.} \pm 0.002$  holes for centring adapter ZBZ 01•.

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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   |          |      |        |        |  |
| Location |          | Left | Centre | Right  |  |
| State    |          | 1    | 1      | 1      |  |
| Contacts | N/O      |      | closed | closed |  |
| N/C      |          | open | open   | open   |  |