

Harmony™ XB6/ZB6 16 mm push buttons

Catalog
2011



Schneider
Electric™

Harmony™ XB6/ZB6 16 mm push buttons

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Harmony™ XB6/ZB6 16 mm push buttons



Introduction

Schneider Electric's Harmony™ XB6/ZB6 16 mm push buttons, pilot lights and selector switches—with plastic bezels—are specifically designed for applications where the surface area is restricted. The IP 65 degree of protection enables these products to be used in all types of applications.

Applications:

- Industry: Small finishing machines. Local and remote control panels.
- Buildings: Control boards, surveillance rooms, alarms.
- Tertiary: Laboratories and medical instrumentation. Transport. Small electronic equipment.

Product features:

- Circular, square or rectangular heads
- Tags for quick connectors, solder connection or printed circuit board pins
- Degree of protection: IP 65
- Certifications: CE , UL, CSA, CCC

Contact functions:

- Push buttons with spring return and latching
- Selector switches and key switches, 2 or 3 positions
- Trigger action
- Emergency stop

Light functions:

- LED pilot lights (Protected LED), neon and incandescent bulbs

Combined functions (contact + light):

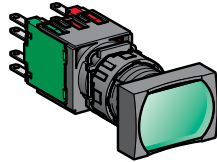
- Illuminated push buttons, flush push, spring return and latching
- Illuminated selector switches

Harmony™ XB6/ZB6 16 mm push buttons

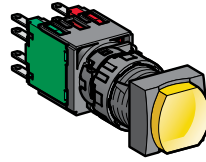
Description

The 16 mm range of double insulated control and signaling units is comprised of:

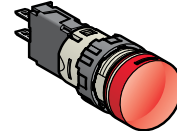
Complete units
XB6 push buttons,
switches and pilot lights



XB6D with rectangular head

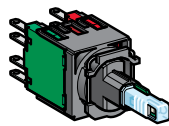


XB6C with square head



XB6A with circular head

Sub-assemblies for user assembly
ZB6 push buttons,
switches and pilot lights
Body + head sub-assemblies



ZB6D with rectangular head



ZB6C with square head



ZB6A with circular head

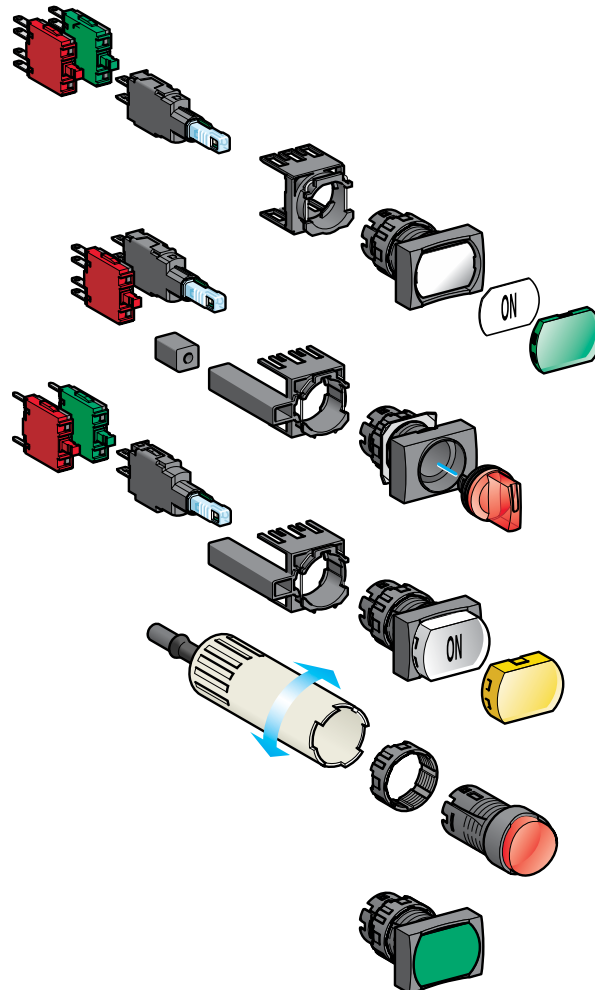
ZB component parts and accessories
Any of the push buttons,
switches or pilot lights in the
range may be adapted by
replacing certain component
parts, such as:

For heads

- Caps or lenses
- Pre-printed legends
- Link enabling operation of the 3rd contact (cannot be fitted on illuminated push buttons)

For bodies

- LED, incandescent and neon bulbs
- N/C or N/O contact blocks, max. 3 contacts per block, with quick connector or for printed circuit board
- Silver or gold flashed N/C or N/O contact blocks



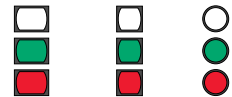
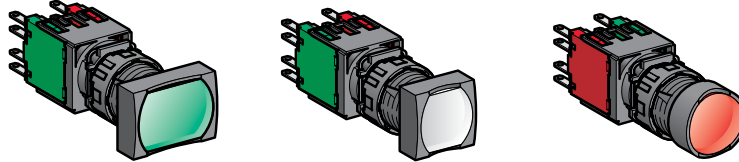
Complete units

Combined functions (contact + signaling)

Illuminated push buttons

Illuminated push buttons with rectangular, square or circular head

Head colors



Protected LED

Full guard with integral LED, spring return

XB6DW●●●●
page 15

XB6CW●●●●
page 15

XB6AW●●●●
page 15

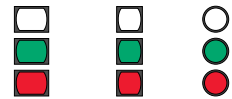
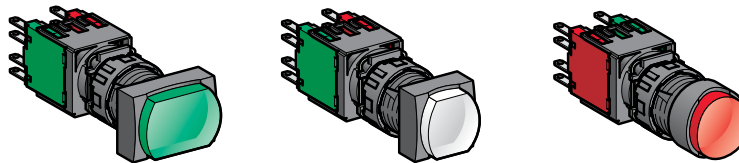
Protected LED

Full guard with integral LED, maintained

XB6DF●●●●
page 15

XB6CF●●●●
page 15

XB6AF●●●●
page 15



Protected LED

No guard with integral LED, spring return

XB6DE●●●●
page 15

XB6CE●●●●
page 15

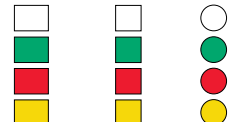
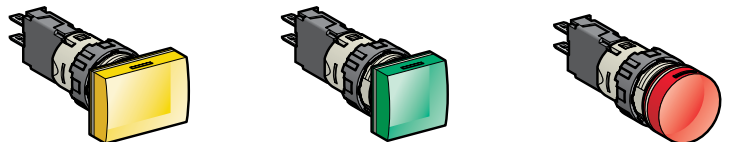
XB6AE●●●●
page 15

Signaling functions

Pilot lights with rectangular, square or circular head

Head colors

Pilot lights



Protected LED

With integral LED

XB6DV●●●●
page 16

XB6CV●●●●
page 16

XB6AV●●●●
page 16

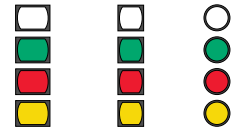
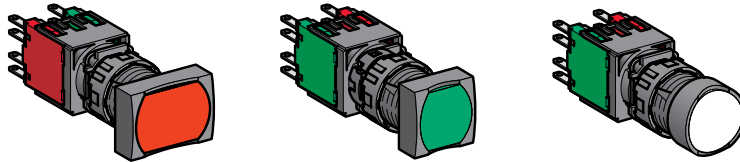
**Complete units
(continued)**

Contact functions

**Push buttons,
spring return**

Push buttons with rectangular, square or circular head

Head colors



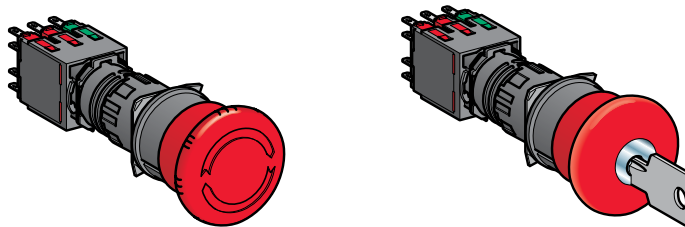
Full guard

XB6DA●●●
page 16

XB6CA●●●
page 16

XB6AA●●●
page 16

**Mushroom head,
Emergency stop,
maintained and trigger
action**



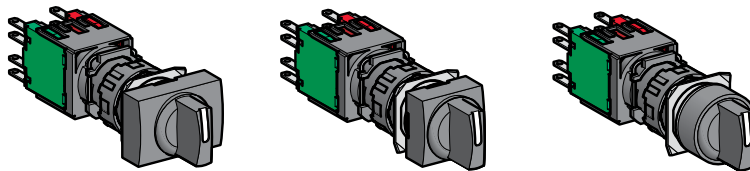
Turn to release (EN/ISO 13850: 2006)

XB6AS834●B
page 13

Key release (EN/ISO 13850: 2006)

XB6AS934●B
page 13

**Selector switches
and key switches**

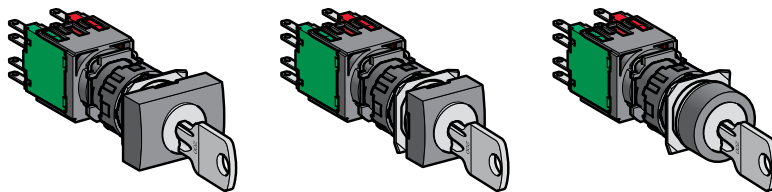


Standard handle operator

XB6DD●●●
page 17

XB6CD●●●
page 17

XB6AD●●●
page 17



Key switches

XB6DG●●●
page 17

XB6CG●●●
page 17

XB6AG●●●
page 17

Harmony™ XB6/ZB6 16 mm push buttons

Illuminated units for user assembly

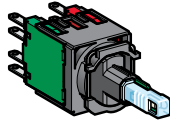
Combined functions (contact + signaling)

For illuminated push buttons and selector switches

Protected LED

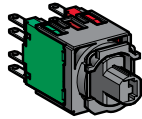
Body sub-assemblies

With integral LED



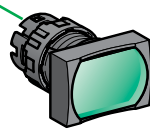
Quick connector
ZB6ZB●●B
page 18

Direct supply for incandescent bulb

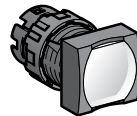


Quick connector
ZB6ZH●●B
page 18

Head sub-assemblies, rectangular, square or circular



Full guard, spring return
ZB6DW●
page 19



ZB6CW●
page 19



ZB6AW●
page 19

Full guard, maintained

ZB6DF●●●B
page 19

ZB6CF●●●B
page 19

ZB6AF●●●B
page 19

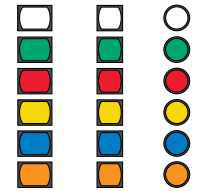
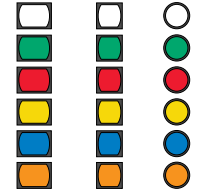
No guard, spring return

ZB6DE●
page 19

ZB6CE●
page 19

ZB6AE●
page 19

Head colors

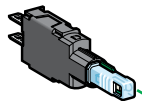


Signaling functions

Body sub-assemblies

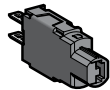
With integral LED

Protected LED



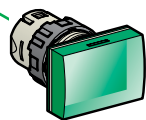
Quick connector
ZB6E●●B
page 18

Direct supply for incandescent bulb or with resistor

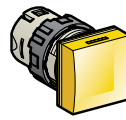


Quick connector
ZB6E●0B
page 18

Head sub-assemblies, rectangular, square or circular



ZB6DV●
page 19

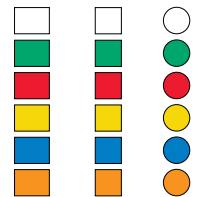


ZB6CV●
page 19

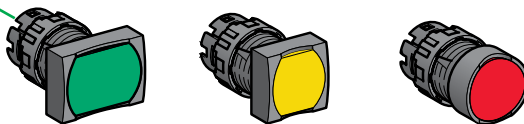
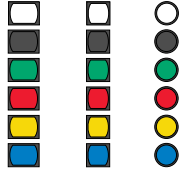
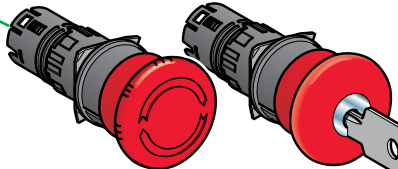

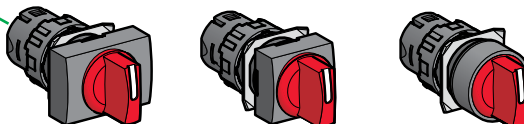

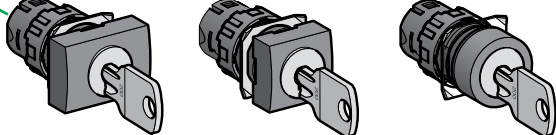



ZB6AV●
page 19

Head colors







Harmony™ XB6/ZB6 16 mm push buttons

| Non illuminated units for user assembly | Contact functions | | | |
|---|--------------------------------------|--|---|--------------------|
| | Body sub-assemblies | Head sub-assemblies, rectangular, square or circular | Head colors | |
| For push buttons | Direct supply for incandescent bulb |  |  | |
| | Quick connector ZB6Z●B page 18 | Full guard, spring return | | |
| | | ZB6DA● page 20 | ZB6CA● page 20 | ZB6AA● page 20 |
| For mushroom head push buttons and Emergency stop heads | |  |  | |
| | | Maintained, trigger action 30 mm (EN/ISO 13850: 2006) | | |
| | | Turn to release | Key release | |
| | | ZB6AS834 page 20 | ZB6AS934 page 20 | |
| For selector switches and key switches | |  |  | |
| | | Standard handle operator | | |
| | | ZB6DD●● page 20 | ZB6CD●● page 20 | ZB6AD●● page 20 |
| | |  |  | |
| | | Key switches | | |
| | | ZB6DG●● page 21 | ZB6CG●● page 21 | ZB6AG●● page 21 |

Harmony™ XB6/ZB6 16 mm push buttons

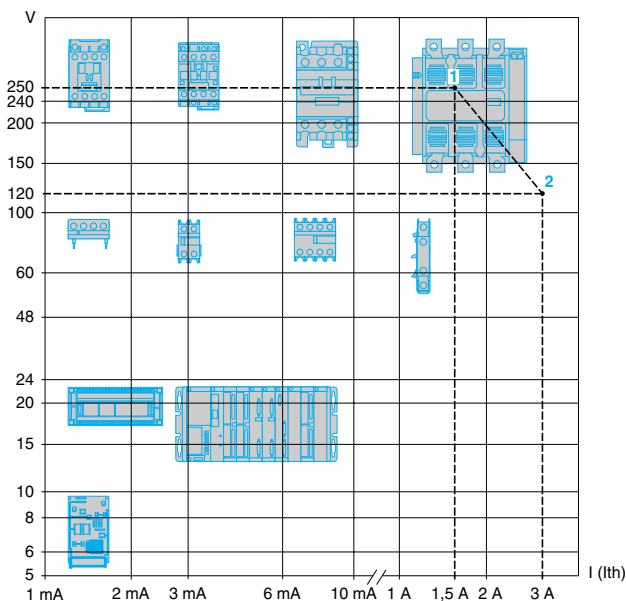
Environmental specifications

| | | | |
|--|---|---------|---|
| Conforming to standards |   | | IEC 60947-1, IEC 60947-5-1, IEC 60947-5-4, EN 60947-5-1, JIS C 4520 and 852, UL 508, CSA C22.2 No. 14, RoHS compliant (Reduction of Hazardous Substances) |
| Product certifications |  File E164353 CCN NKCR  File LR 44087 Class 3211 03 | | UL, CSA ASE, BV, JIS, RINA, LROS, DNV, GL: pending |
| Protective treatment standard version | | | "TC" |
| Ambient air temperature around the device | Storage | °C (°F) | - 40 to +70 (- 40 to +158) |
| | Operation | °C (°F) | - 25 to +70 (-13 to +158) |
| Vibration resistance | Conforming to IEC 60068-2-6 | | (2 to 500 Hz) 3 mm peak to peak or 5 gn |
| Shock resistance | Conforming to IEC 60068-2-27 | | Half sine wave 18 ms, 30 gn Half sine wave 11 ms, 50 gn |
| Electric shock protection | Conforming to IEC 60536 & NF C 20-030 | | Class II |
| Degree of protection | Conforming to IEC 60529 & NF C 20-010 Conforming to UL 50 & CSA C22.2 No. 94 | | IP 65 Type 1, 4, 4X and 12 (not for key selector switches) |
| Mechanical durability (in operating cycles) | Spring return push buttons | | 2 million |
| | Maintained push buttons | | 300,000 |
| | Key operated selector switches | | 200,000 |
| | Handle operated selector switches | | 500,000 |
| Mounting positions | | | All |

Electrical specifications of LED pilot lights

| | | | |
|---|--------------------------------------|------------|----------------|
| Voltage limits | | | 6 - 30 Vac/Vdc |
| Current draw | | mA | 15 |
| Surge withstand | Conforming to IEC 61000-4-5 | kV | 2/1 |
| Resistance to fast transients | Conforming to IEC 61000-4-4 | kV | 2 |
| Resistance to electromagnetic fields | Conforming to IEC 61000-4-3 | V/m | 10 |
| Resistance to electrostatic discharges | Conforming to IEC 61000-4-2 | kV | 8/6 |
| Electromagnetic emission | Conforming to IEC 55011 | | Class B |
| Service life | At nominal voltage and 25 °C ambient | | 100,000 hrs |

| Electrical specifications of contacts | | | |
|---------------------------------------|---|---------|---|
| Rated operational specifications | AC-15 | | B300, Ue = 240 Vac and Ie = 1.5 A or Ue 120 Vac and Ie = 3 A |
| | DC-13 | | R300, Ue = 250 Vdc and Ie = 0.1 A or Ue = 125 Vdc and Ie = 0.22 A |
| Rated insulation voltage | Conforming to IEC 60947-1 | | Ui = 250 V Degree of pollution 3 (Except pilot lights with incandescent or neon bulb: degree of pollution 2) |
| Rated impulse withstand voltage | Conforming to EN/IEC 60947-1 | kV | Uimp = 4 |
| Contact material | Normal environment and usage | | Silver alloy |
| | Chemically corrosive environment or infrequent operation | | Gold |
| Contact operation | N/C or N/O | | Slow break, with indication of change of state by the tactile feedback on push and audibility |
| Differential travel of contacts | With push button head | in (mm) | Changing N/C state: 0.04 (1.0) Changing N/O state: 0.08 (2.0) Total travel: 0.14 (3.5) |
| Operating force | N/C contact | lbf (N) | 0.56 (2.5) |
| | N/O contact | lbf (N) | 0.36 (1.6) |
| | Push button head + N/O contact | lbf (N) | 0.79 (3.5) |
| | Push button head + N/C contact | lbf (N) | 1.01 (4.5) |
| Positive operation | Conforming to IEC 60947-5-2 | lbf (N) | N/C contact with positive opening operation Positive opening force: 3.38 (15) |
| Terminal referencing | Conforming to EN 50005 and EN 50013 | | |
| Short-circuit protection | Cartridge fuse mounted upstream | | 6 A gG, 6 A Class CC, Bussman KTK-R |
| Electrical reliability | Failure rate Conforming to IEC 60947-5-4 | | With confidence level of 90 %: $\lambda_{90} = 10^{-8}$ 5 V - 1 mA, defect contact voltage drop = 0.5 V |
| Cabling | | in (mm) | By Quick Connectors/Solder tabs 0.11 x 0.02 (2.8 x 0.5) By pins for printed circuit board connection 0.04 x 0.02 (1 x 0.5) |
| Electrical durability | Conforming to IEC 947-5-1 Appendix C Utilization category AC-15 and DC-13 Operating rate 3600 operating cycles/h Load factor 0.5 | | 1 million operating cycles - 200 VA-230 V |



- Switching capacity conforming to EN/IEC 60947-5-1, utilization category AC-15, DC-13

| | | |
|------|---------|-------|
| B300 | 240 Vac | 1.5 A |
| R300 | 250 Vdc | 0.1 A |
- Switching capacity conforming to EN/IEC 60947-5-1, utilization category AC-15, DC-13




| | | |
|------|---------|--------|
| B300 | 120 Vac | 3 A |
| R300 | 125 Vdc | 0.22 A |

Harmony™ XB6/ZB6 16 mm push buttons

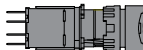







Contact functions and light functions with integral LED







Illuminated push buttons

| | | | |
|----------------------|---|----------------------|--|
| Type of head |    | Full guard | rectangular (2) |
| Shape of head | | Degree of protection | IP 65 / Nema 4, 4X, 12 / Class II |
| Degree of protection | | Mounting (mm) | panel cut-out mounting centers |
| Mounting (mm) | | Dimensions (mm) | W x H x D (below head) |
| Dimensions (mm) | | Connection (3) | Tags for 2.8 x 0.5 quick connectors or for soldering |

Type of push: Spring return




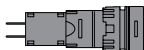







| | | Complete products 12 to 24 V AC/DC | Products for user assembly | | | |
|---|---|---|---|---|---|---------------|
| | |  |  |  |  | |
| References | white  | N/O | XB6DW1B1B | ZB6E●1B (1) | ZB6Z1B | ZB6DW1 |
| | | N/C + N/O | XB6DW1B5B | ZB6E●1B (1) | ZB6Z5B | ZB6DW1 |
| | green  | N/O | XB6DW3B1B | ZB6E●3B (1) | ZB6Z1B | ZB6DW3 |
| | | N/C + N/O | XB6DW3B5B | ZB6E●3B (1) | ZB6Z5B | ZB6DW3 |
| | red  | N/C | XB6DW4B2B | ZB6E●4B (1) | ZB6Z2B | ZB6DW4 |
| | | N/C + N/O | XB6DW4B5B | ZB6E●4B (1) | ZB6Z5B | ZB6DW4 |
| yellow  | N/O | – | ZB6E●5B (1) | ZB6Z1B | ZB6DW5 | |
| | N/C + N/O | XB6DW5B5B | ZB6E●5B (1) | ZB6Z5B | ZB6DW5 | |

Type of push: Maintained

| | | | | | | |
|--|---|-----------|--------------------|--------------------|---------------|---------------|
| References | white  | N/O | – | ZB6E●1B (1) | ZB6Z1B | ZB6DF1 |
| | | N/C + N/O | XB6DF1B5B | ZB6E●1B (1) | ZB6Z5B | ZB6DF1 |
| | green  | N/O | XB6DF3B1B | ZB6E●3B (1) | ZB6Z1B | ZB6DF3 |
| | | N/C + N/O | XB6DF3B5B | ZB6E●3B (1) | ZB6Z5B | ZB6DF3 |
| | red  | N/C | XB6DF4B2B | ZB6E●4B (1) | ZB6Z2B | ZB6DF4 |
| | | N/C + N/O | XB6DF4B5B | ZB6E●4B (1) | ZB6Z5B | ZB6DF4 |
| yellow  | N/O | – | ZB6E●5B (1) | ZB6Z1B | ZB6DF5 | |
| | N/C + N/O | – | ZB6E●5B (1) | ZB6Z5B | ZB6DF5 | |



Pilot lights

| | | | | |
|--|---|---|--|---------------|
| Type of head |    | Smooth lens cap | rectangular (2) | |
| Shape of head | | Complete products 12 to 24 V AC/DC | Products for user assembly | |
| | |  |   | |
| References | white  | XB6DV1BB | ZB6E●1B (1) | ZB6DV1 |
| | | XB6DV3BB | ZB6E●3B (1) | ZB6DV3 |
| | green  | XB6DV4BB | ZB6E●4B (1) | ZB6DV4 |
| | | XB6DV5BB | ZB6E●5B (1) | ZB6DV5 |
| | red  | – | ZB6E●6B (1) | ZB6DV6 |
| | yellow  | | | |
| blue  | | | | |

(1) Basic reference, to be completed by the letter **B**, **G** or **M** indicating the required voltage. See **Voltage Table** below.
 (2) For products with a square head, replace the letter **D** in the reference by the letter **C** (XB6DW1B1B becomes XB6CW1B1B).
 For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6DW1B1B becomes XB6AW1B1B).
 (3) Use ZB6Y010 Plug-in Socket Adapter for 1 x 0.5 pin printed circuit board connection.

Voltage Table

| Voltage | Letter (●) |
|--------------------------|------------|
| 12 to 24 V AC/DC (15 mA) | B |
| 48 to 120 V AC (25 mA) | G |
| 230 to 240 V AC (25 mA) | M |

Product range:
page 5

Specifications:
page 10

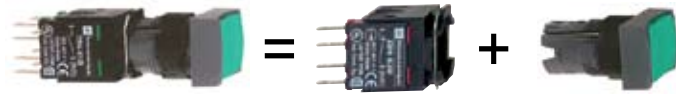
References:
page 15




Dimensions:
page 25

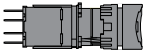






Harmony™ XB6/ZB6

16 mm push buttons

Contact functions




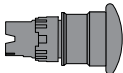


| Non-illuminated push buttons | | |
|------------------------------|---|---|
| Type of head |    | Full guard |
| Shape of head | | rectangular (1) |
| Degree of protection | | IP 65 / Nema 4, 4X, 12 / Class II |
| Mounting (mm) | panel cut-out | 16.2 mm ^{+0.2} ₀ |
| | mounting centers | 24 x 18 with rectangular head, 18 x 18 with square or circular head |
| Dimensions (mm) | W x H x D (below head) | 24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head |
| Connection (2) | | Tags for 2.8 x 0.5 quick connectors or for soldering |

| Type of push: Spring Return | | | Complete products | Products for user assembly | |
|-----------------------------|---|-----------|---|--|---|
| | | |  |  |  |
| References | white  | N/O | XB6DA11B | ZB6Z1B | ZB6DA1 |
| | | N/C + N/O | XB6DA15B | ZB6Z5B | ZB6DA1 |
| | black  | N/O | – | ZB6Z1B | ZB6DA2 |
| | | N/C + N/O | XB6DA25B | ZB6Z5B | ZB6DA2 |
| | green  | N/O | XB6DA31B | ZB6Z2B | ZB6DA3 |
| | | N/C + N/O | XB6DA35B | ZB6Z5B | ZB6DA3 |
| | red  | N/O | – | ZB6Z1B | ZB6DA4 |
| | | N/C + N/O | XB6DA45B | ZB6Z5B | ZB6DA4 |

(1) For products with a square head, replace the letter **D** in the reference by the letter **C** (XB6DA11B becomes XB6CA11B).
For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6DA11B becomes XB6AA11B).

(2) Alternative connection: 1 x 0.5 pins for printed circuit boards.



| Mushroom head Emergency stop push buttons (3) | | | | | | |
|---|---|--|-----------------------------------|---|---------------|-----------------|
| Type of head |  | Trigger action (EN/ISO 13850: 2006) | | | | |
| Shape of head | | cylindrical | | | | |
| Type of push: Turn to release | | | | | | |
| | | Complete products | Products for user assembly |  | | |
| References | red  | 2 N/C + 1 N/O | XB6AS8349B | ZB6E2B | ZB6Z5B | ZB6AS834 |
| | | Type of push: Key release, Ronis 200 | | | | |
| References | red  | 2 N/C + 1 N/O | XB6AS9349B | ZB6E2B | ZB6Z5B | ZB6AS934 |

(3) Complies with EN418/ISO13850 standards for Emergency Stop push buttons when used with circular Legend Plate ZB6Y7330 (see page 24).

Harmony™ XB6/ZB6 16 mm push buttons

Contact functions and light functions with integral LED

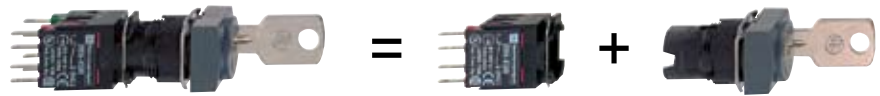


Non-illuminated selector switches and key switches

| | | |
|----------------------|------------------------|---|
| Type of head | | Black handle |
| Shape of head | | rectangular (1) |
| Degree of protection | | IP 66 / Nema 4, 4X, 12 / Class II |
| Mounting (mm) | panel cut-out | 16.2 mm ^{+0.2} ₀ |
| | mounting centers | 24 x 18 with rectangular head, 18 x 18 with square or circular head |
| Dimensions (mm) | W x H x D (below head) | 24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head |
| Connection (2) | | Tags for 2.8 x 0.5 quick connectors or for soldering |

Type of operator: Black handle

| | | Complete products | Products for user assembly | |
|------------------------------|-----------|-------------------|----------------------------|----------------|
| Number and type of positions | | | | |
| References | N/O | XB6DD221B | ZB6Z1B | ZB6DD22 |
| | N/C + N/O | XB6DD225B | ZB6Z5B | ZB6DD22 |
| Number and type of positions | | | | |
| References | N/O | XB6DD235B | ZB6Z5B | ZB6DD23 |
| | | | ZB6DD23 | ZB6Z5B |
| | | | | ZB6DD25 |



Type of operator: Ronis key, No. 200

| | | Complete products | Products for user assembly | |
|------------------------------|-----------|-------------------|----------------------------|---------------|
| Number and type of positions | | | | |
| References | N/C + N/O | XB6DGC5B | ZB6Z5B | ZB6DGC |
| Number and type of positions | | | | |
| References | N/C + N/O | XB6DGH5B | ZB6Z5B | ZB6DGH |
| | | | | ZB6DGS |

(1) For products with a square head, replace the letter **D** in the reference by the letter **C** (XB6DD221B becomes XB6CD221B).
For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6DD221B becomes XB6AD221B).

(2) Alternative connection: 1 x 0.5 pins for printed circuit boards.

Voltage Table




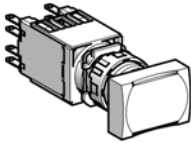
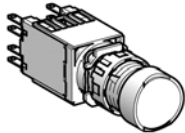
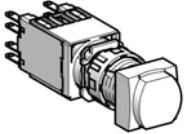
| Voltage | Letter (●) |
|--------------------------|------------|
| 12 to 24 V AC/DC (15 mA) | B |
| 48 to 120 V AC (25 mA) | G |
| 230 to 240 V AC (25 mA) | M |

Harmony™ XB6/ZB6

16 mm push buttons

Complete units

Illuminated Push Buttons (12–24 Vac/Vdc LED included) Complete Units with Quick Connectors/Solder Tabs

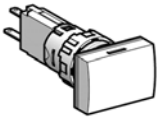
| Type of Operator | Type of Contact | | Color |  |  |  | |
|--|--|--------|-----------|--|---|---|-----------|
| | N.O. | N.C. | | Rectangular Reference | Square Reference | Round Reference | |
|  XB6DW***B | 1 | — | White | XB6DW1B1B | XB6CW1B1B | XB6AW1B1B | |
| | | | Green | XB6DW3B1B | XB6CW3B1B | XB6AW3B1B | |
| | | | Yellow | XB6DW5B1B | XB6CW5B1B | XB6AW5B1B | |
| | | | Blue | XB6DW6B1B | XB6CW6B1B | XB6AW6B1B | |
| | — | 1 | Red | XB6DW4B2B | XB6CW4B2B | XB6AW4B2B | |
| | | | White | XB6DW1B5B | XB6CW1B5B | XB6AW1B5B | |
| | | | Green | XB6DW3B5B | XB6CW3B5B | XB6AW3B5B | |
| | | | Red | XB6DW4B5B | XB6CW4B5B | XB6AW4B5B | |
| | 1 | 1 | Yellow | XB6DW5B5B | XB6CW5B5B | XB6AW5B5B | |
| | | | Blue | XB6DW6B5B | XB6CW6B5B | XB6AW6B5B | |
| | | | White | XB6DF1B1B | XB6CF1B1B | XB6AF1B1B | |
| | | | Green | XB6DF3B1B | XB6CF3B1B | XB6AF3B1B | |
|  XB6AF***B | 1 | — | Yellow | XB6DF5B1B | XB6CF5B1B | XB6AF5B1B | |
| | | | Blue | XB6DF6B1B | XB6CF6B1B | XB6AF6B1B | |
| | | | Red | XB6DF4B2B | XB6CF4B2B | XB6AF4B2B | |
| | | | White | XB6DF1B5B | XB6CF1B5B | XB6AF1B5B | |
| | — | 1 | Green | XB6DF3B5B | XB6CF3B5B | XB6AF3B5B | |
| | | | Red | XB6DF4B5B | XB6CF4B5B | XB6AF4B5B | |
| | | | Yellow | XB6DF5B5B | XB6CF5B5B | XB6AF5B5B | |
| | | | Blue | XB6DF6B5B | XB6CF6B5B | XB6AF6B5B | |
| |  XB6CE***B | 1 | — | White | XB6DE1B1B | XB6CE1B1B | XB6AE1B1B |
| | | | | Green | XB6DE3B1B | XB6CE3B1B | XB6AE3B1B |
| | | | | Yellow | XB6DE5B1B | XB6CE5B1B | XB6AE5B1B |
| | | | | Blue | XB6DE6B1B | XB6CE6B1B | XB6AE6B1B |
| — | | 1 | Red | XB6DE4B2B | XB6CE4B2B | XB6AE4B2B | |
| | | | White | XB6DE1B5B | XB6CE1B5B | XB6AE1B5B | |
| | | | Green | XB6DE3B5B | XB6CE3B5B | XB6AE3B5B | |
| | | | Red | XB6DE4B5B | XB6CE4B5B | XB6AE4B5B | |
| 1 | 1 | Yellow | XB6DE5B5B | XB6CE5B5B | XB6AE5B5B | | |
| | | Blue | XB6DE6B5B | XB6CE6B5B | XB6AE6B5B | | |

Illuminated Push Buttons 120 Vac LED are available as Complete Units with Quick Connectors/Solder Tabs. Use 12–24 V table above. Change Voltage Code (2nd B) to "G". Example: XB6DW1B1B (White 24 V, 1 N.O.) becomes XB6DW1G1B. For Legends, see pages 22 and 24.

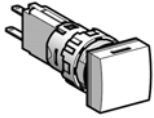
Harmony™ XB6/ZB6

16 mm push buttons

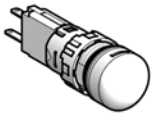
Complete units



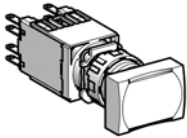
XB6DV**B



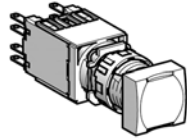
XB6CV**B



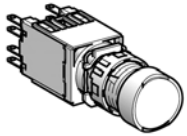
XB6AV**B



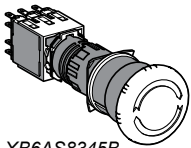
XB6DA**B



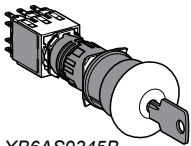
XB6CA**B



XB6AA**B



XB6AS8345B



XB6AS9345B



ZB6Y7330

Pilot Lights (12–24 Vac/Vdc LED included) Complete Units with Quick Connectors/Solder Tabs

| Color | | | |
|--------|-------------|-----------|-----------|
| | Rectangular | Square | Round |
| | Reference | Reference | Reference |
| White | XB6DV1BB | XB6CV1BB | XB6AV1BB |
| Green | XB6DV3BB | XB6CV3BB | XB6AV3BB |
| Red | XB6DV4BB | XB6CV4BB | XB6AV4BB |
| Yellow | XB6DV5BB | XB6CV5BB | XB6AV5BB |
| Blue | XB6DV6BB | XB6CV6BB | XB6AV6BB |

Pilot Lights (120 Vac LED) Complete Units with Quick Connectors/Solder Tabs

| Color | | | |
|--------|-------------|-----------|-----------|
| | Rectangular | Square | Round |
| | Reference | Reference | Reference |
| White | XB6DV1GB | XB6CV1GB | XB6AV1GB |
| Green | XB6DV3GB | XB6CV3GB | XB6AV3GB |
| Red | XB6DV4GB | XB6CV4GB | XB6AV4GB |
| Yellow | XB6DV5GB | XB6CV5GB | XB6AV5GB |
| Blue | XB6DV6GB | XB6CV6GB | XB6AV6GB |

Push Buttons (Non-Illuminated) Complete Units with Quick Connectors/Solder Tabs

| Type of Push | Type of Contact | | Color | | | |
|----------------------|-----------------|--------|----------|-------------|-----------|-----------|
| | N.O. | N.C. | | Rectangular | Square | Round |
| | | | | Reference | Reference | Reference |
| Flush, spring return | 1 | — | White | XB6DA11B | XB6CA11B | XB6AA11B |
| | | | Black | XB6DA21B | XB6CA21B | XB6AA21B |
| | | | Green | XB6DA31B | XB6CA31B | XB6AA31B |
| | | | Yellow | XB6DA51B | XB6CA51B | XB6AA51B |
| | — | 1 | Blue | XB6DA61B | XB6CA61B | XB6AA61B |
| | | | Black | XB6DA22B | XB6CA22B | XB6AA22B |
| 1 | 1 | White | XB6DA15B | XB6CA15B | XB6AA15B | |
| | | Black | XB6DA25B | XB6CA25B | XB6AA25B | |
| | | Green | XB6DA35B | XB6CA35B | XB6AA35B | |
| | | Red | XB6DA45B | XB6CA45B | XB6AA45B | |
| | | Yellow | XB6DA55B | XB6CA55B | XB6AA55B | |
| | | Blue | XB6DA65B | XB6CA65B | XB6AA65B | |

Trigger Action Emergency Stop Mushroom Head Push Buttons (Color Red) (1)

| Shape of Head | Type of Push | Type of Contact | | Diameter of Head (mm) | Reference |
|---------------|-----------------|-----------------|------|-----------------------|------------|
| | | N.O. | N.C. | | |
| | Turn-to-release | — | 1 | 30 | XB6AS8342B |
| | | 1 | 1 | 30 | XB6AS8345B |
| | Key release | — | 1 | 30 | XB6AS9342B |
| | | 1 | 1 | 30 | XB6AS9345B |

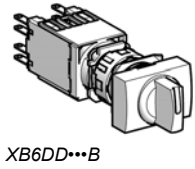
(1) Complies with EN418/ISO13850 standards for Emergency Stop push buttons when used with circular Legend Plate ZB6Y7330 (see page 24).

Circular Legends, 45 mm

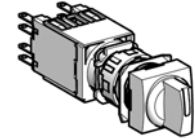
| Description | Color | Text | Reference |
|-------------------------|--------|----------------|-----------|
| Circular legends, 45 mm | Yellow | Blank | ZB6Y7001 |
| | | Emergency stop | ZB6Y7330 |

For Legends, pages 22 and 24.

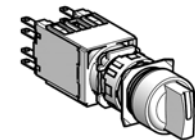
Harmony™ XB6/ZB6 16 mm push buttons Complete units



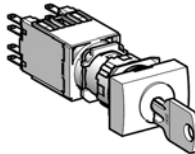
XB6DD***B



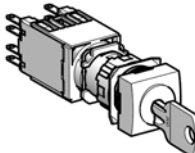
XB6CD***B



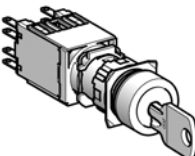
XB6AD***B



XB6DG**B



XB6CG**B



XB6AG**B

Selector Switches (Switching Angle: Handle: 60°, Key: 70°) Complete Units with Quick Connectors/Solder Tabs

| Type of Operator | Type of Contact | | Number and Type of Positions | | | |
|------------------|-----------------|--------------|------------------------------|-----------------------|------------------|-----------------|
| | N.O. | N.C. | | Rectangular Reference | Square Reference | Round Reference |
| Handle | 1 | — | 2-maintained | XB6DD221B | XB6CD221B | XB6AD221B |
| | | 1 | 2-maintained | XB6DD225B | XB6CD225B | XB6AD225B |
| | — | 3-maintained | XB6DD235B | XB6CD235B | XB6AD235B | |
| 2 | — | 3-maintained | XB6DD233B | XB6CD233B | XB6AD233B | |

| Type of Operator | Type of Contact | | Number and Type of Positions | | | |
|------------------|-----------------|------|------------------------------|-----------------------|------------------|-----------------|
| | N.O. | N.C. | | Rectangular Reference | Square Reference | Round Reference |
| Key | 1 | 1 | 2-maintained | XB6DGC5B | XB6CGC5B | XB6AGC5B |
| | | | 2-maintained | XB6DGB5B | XB6CGB5B | XB6AGB5B |
| | | | 3-maintained | XB6DGH5B | XB6CGH5B | XB6AGH5B |
| | 2 | — | 3-maintained | XB6DGH3B | XB6CGH3B | XB6AGH3B |

Note: Indicates key withdrawal position.

Selector Switch Sequence

2 Position Selector Switch

| | | Contact block guide (1) |
|---|---|-------------------------|
| O | x | 1 N.O. (left or right) |
| x | O | 1 N.C. (left or right) |
| O | x | 1 N.O. and |
| x | O | 1 N.C. |

3 Position Selector Switch

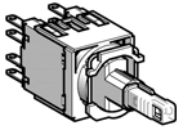
| | | | Contact block guide (1) |
|---|---|---|--|
| O | O | x | 1 N.O. (left) |
| x | O | x | 2 N.O. wired in parallel (side by side) |
| x | O | O | 1 N.O. (right) |
| O | x | x | 1 N.C. (right) |
| x | x | O | 1 N.C. (left) |
| O | x | O | 2 N.C. wired in series (side by side) |

(1) As viewed from the front of the panel.
For Legends, see pages 22 and 24.

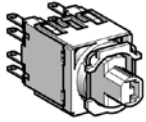
Harmony™ XB6/ZB6

16 mm push buttons

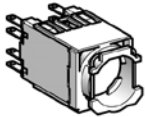
Electrical components



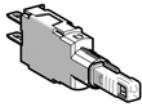
ZB6ZB•B



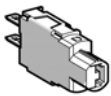
ZB6ZH•B



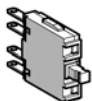
ZB6Z•B



ZB6E•B



ZB6E•0B



ZB6E•B

Contact Blocks and Light Modules for Illuminated Push Buttons (1)

| Description | Supply Voltage | Type of Contact | | Color of Light Source | Reference | |
|--|----------------|-----------------|------|-----------------------|-----------|----------|
| | | N.O. | N.C. | | | |
| Quick connectors/solder tabs | | | | | | |
| Integral LED (2) | 12–24 Vac/Vdc | 1 | — | White | ZB6ZB11B | |
| | | | | Green | ZB6ZB31B | |
| | | | | Yellow | ZB6ZB51B | |
| | | | | Blue | ZB6ZB61B | |
| | | | | Red | ZB6ZB42B | |
| | — | 1 | — | 1 | Yellow | ZB6ZB52B |
| | | | | | White | ZB6ZB15B |
| | | | | | Green | ZB6ZB35B |
| | | | | | Red | ZB6ZB45B |
| | | | | | Yellow | ZB6ZB55B |
| | 120 Vac | 1 | — | 1 | Blue | ZB6ZB65B |
| | | | | | White | ZB6ZG11B |
| | | | | | Green | ZB6ZG31B |
| | | | | | Yellow | ZB6ZG51B |
| | | | | | Blue | ZB6ZG61B |
| — | 1 | — | 1 | Red | ZB6ZG42B | |
| | | | | Yellow | ZB6ZG52B | |
| | | | | White | ZB6ZG15B | |
| | | | | Green | ZB6ZG35B | |
| | | | | Red | ZB6ZG45B | |
| 1 | 1 | 1 | 1 | Yellow | ZB6ZG55B | |
| | | | | Blue | ZB6ZG65B | |
| | | | | White | ZB6ZH01B | |
| | | | | — | ZB6ZH02B | |
| | | | | — | ZB6ZH05B | |
| Direct for incandescent bulb (not included) (4) | | | | | | |
| < 24 Vac/Vdc | 1 | — | — | — | ZB6ZH01B | |
| | | | | — | ZB6ZH02B | |
| | | | | — | ZB6ZH05B | |

Contact Blocks for Push Buttons and Selector Switches

| Description | Type of Contact | | Reference |
|-------------------------------------|-----------------|------|-----------|
| | N.O. | N.C. | |
| Quick connectors/solder tabs | | | |
| Contact blocks with mounting base | 1 | — | ZB6Z1B |
| | — | 1 | ZB6Z2B |
| | 2 | — | ZB6Z3B |
| | — | 2 | ZB6Z4B |
| | 1 | 1 | ZB6Z5B |

Light Modules for Pilot Lights

| Description | Supply Voltage | Color of Light Source | Reference | |
|--|----------------|-----------------------|-----------|---------|
| Quick connectors/solder tabs (6) | | | | |
| Integral LED (3) | 12–24 Vac/Vdc | White | ZB6EB1B | |
| | | Green | ZB6EB3B | |
| | | Red | ZB6EB4B | |
| | | Yellow | ZB6EB5B | |
| | | Blue | ZB6EB6B | |
| | | White | ZB6EG1B | |
| | 120 Vac | Green | ZB6EG3B | |
| | | Red | ZB6EG4B | |
| | | Yellow | ZB6EG5B | |
| | | Blue | ZB6EG6B | |
| | | 110 Vac | — | ZB6EG0B |
| | | 230 Vac | — | ZB6EM0B |
| With resistor for 95 V neon bulb (not included) (4) (5) | | | | |
| Direct supply for 0.6 W max. incandescent bulb (not included) (4) < 24 Vac/Vdc | | | | |
| — | — | — | ZB6EH0B | |

Separate Contact Blocks (Maximum of 3 contacts per mounting base.)

| Contact Material | For use with mounting base | Type of Contact | | Reference |
|------------------|------------------------------|-----------------|------|-----------|
| | | N.O. | N.C. | |
| Silver alloy | Quick connectors/solder tabs | 1 | — | ZB6E1B |
| | | — | 1 | ZB6E2B |
| Gold flashed | Quick connectors/solder tabs | 1 | — | ZB6E1E |
| | | — | 1 | ZB6E2E |

(1) Illuminated selector switches can be assembled by using a contact block/light module assembly in conjunction with a selector switch head, supplied without handle, and a transparent handle. See page 19.
 (2) The LED must be the same color as the push button cap.
 (3) The LED must be the same color as the lens.
 (4) Order bulbs separately. See page 24.
 (5) Neon bulb can only be used with a red, yellow, or white cap.
 (6) Electrical components with connection by printed circuit board pins are available. See page 24.

Harmony™ XB6/ZB6 16 mm push buttons Illuminated operators



ZB6DW•



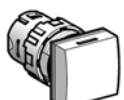
ZB6CE•



ZB6AF•



ZB6DV•






ZB6CV•






ZB6AV•

Heads for Illuminated Push Buttons (To combine with complete bodies and contact blocks, see page 18)

| Type of Push | Color |  |  |  |
|-------------------------|--------------|---|---|---|
| | | Rectangular | Square | Round |
| | | Reference | Reference | Reference |
| Flush, spring return | White | ZB6DW1 | ZB6CW1 | ZB6AW1 |
| | Green | ZB6DW3 | ZB6CW3 | ZB6AW3 |
| | Red | ZB6DW4 | ZB6CW4 | ZB6AW4 |
| | Yellow | ZB6DW5 | ZB6CW5 | ZB6AW5 |
| | Blue | ZB6DW6 | ZB6CW6 | ZB6AW6 |
| | 5 colors (1) | ZB6DW9 | ZB6CW9 | ZB6AW9 |
| Flush, maintained | White | ZB6DF1 | ZB6CF1 | ZB6AF1 |
| | Green | ZB6DF3 | ZB6CF3 | ZB6AF3 |
| | Red | ZB6DF4 | ZB6CF4 | ZB6AF4 |
| | Yellow | ZB6DF5 | ZB6CF5 | ZB6AF5 |
| | Blue | ZB6DF6 | ZB6CF6 | ZB6AF6 |
| | 5 colors (1) | ZB6DF9 | ZB6CF9 | ZB6AF9 |
| Extended, spring return | White | ZB6DE1 | ZB6CE1 | ZB6AE1 |
| | Green | ZB6DE3 | ZB6CE3 | ZB6AE3 |
| | Red | ZB6DE4 | ZB6CE4 | ZB6AE4 |
| | Yellow | ZB6DE5 | ZB6CE5 | ZB6AE5 |
| | Blue | ZB6DE6 | ZB6CE6 | ZB6AE6 |
| | 5 colors (1) | ZB6DE9 | ZB6CE9 | ZB6AE9 |

(1) Five different color caps included with head (white, green, red, yellow, and blue).

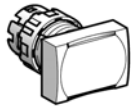
Heads for Pilot Lights (To combine with light modules, see page 18)

| Color |  |  |  |
|--------------|---|---|---|
| | Rectangular | Square | Round |
| | Reference | Reference | Reference |
| White | ZB6DV1 | ZB6CV1 | ZB6AV1 |
| Green | ZB6DV3 | ZB6CV3 | ZB6AV3 |
| Red | ZB6DV4 | ZB6CV4 | ZB6AV4 |
| Yellow | ZB6DV5 | ZB6CV5 | ZB6AV5 |
| Blue | ZB6DV6 | ZB6CV6 | ZB6AV6 |
| 5 colors (2) | ZB6DV9 | ZB6CV9 | ZB6AV9 |

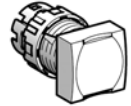
(2) Five different color caps included with head (white, green, red, yellow, and blue).
For Legends, see pages 22 and 24.

Harmony™ XB6/ZB6 16 mm push buttons

Non-illuminated operators and selector switches



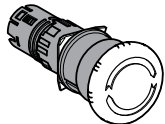
ZB6DA*



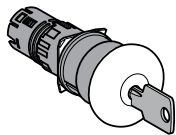
ZB6CA*



ZB6AA*



ZB6AS834



ZB6AS934



ZB6Y7330



ZB6DD**



ZB6CD**



ZB6AD**

Non-Illuminated Operators – Heads for Push Buttons (To combine with complete bodies and contact blocks, see page 18)

| Type of Push | Color | | | |
|----------------------|--------------|--------------------------|---------------------|--------------------|
| | | Rectangular Reference | Square Reference | Round Reference |
| Flush, spring return | White | ZB6DA1 | ZB6CA1 | ZB6AA1 |
| | Black | ZB6DA2 | ZB6CA2 | ZB6AA2 |
| | Green | ZB6DA3 | ZB6CA3 | ZB6AA3 |
| | Red | ZB6DA4 | ZB6CA4 | ZB6AA4 |
| | Yellow | ZB6DA5 | ZB6CA5 | ZB6AA5 |
| | Blue | ZB6DA6 | ZB6CA6 | ZB6AA6 |
| | 6 colors (1) | ZB6DA9 | ZB6CA9 | ZB6AA9 |

(1) Five different color caps included with head (white, green, red, yellow, and blue).

Non-Illuminated Operators – Mushroom Heads for Trigger Action Push Buttons (30 mm) (2)

| Shape of Head | Type of Push | Cap Color | Reference |
|---------------|-----------------|-----------|-----------|
| | Turn-to-release | Red | ZB6AS834 |
| | Key release | Red | ZB6AS934 |

(2) Complies with EN418/ISO13850 standards for Emergency Stop push buttons when used with circular Legend Plate ZB6Y7330 (see page 24).

Non-Illuminated Operators – Circular Legends, 45 mm

| Description | Color | Text | Reference |
|-------------------------|--------|----------------|-----------|
| Circular legends, 45 mm | Yellow | Blank | ZB6Y7001 |
| | | Emergency stop | ZB6Y7330 |

Heads for Non-Illuminated Selector Switches (3) (5) (To combine with complete bodies and contact blocks, see page 18)

| Number and Type of Positions | Color of Handle | | | |
|---|-----------------|--------------------------|---------------------|--------------------|
| | | Rectangular Reference | Square Reference | Round Reference |
| Switching angle: maintained positions 60°, spring return positions 45° | | | | |
| 2-maintained | Black | ZB6DD22 | ZB6CD22 | ZB6AD22 |
| 2-maintained | Black | ZB6DD28 (4) | ZB6CD28 (4) | ZB6AD28 (4) |
| 3-maintained | Black | ZB6DD23 | ZB6CD23 | ZB6AD23 |
| 2-spring return to center | Black | ZB6DD24 | ZB6CD24 | ZB6AD24 |
| 3-spring return to center | Black | ZB6DD25 | ZB6CD25 | ZB6AD25 |
| 3-spring return from right to center | Black | ZB6DD26 | ZB6CD26 | ZB6AD26 |
| 3-spring return from left to center | Black | ZB6DD27 | ZB6CD27 | ZB6AD27 |

(3) For bodies with 2 contact blocks, maximum.

(4) Switching angle: maintained positions 90°.

(5) See selector switch sequence charts on page 17.

For Legends, see pages 22 and 24.




Harmony™ XB6/ZB6

16 mm push buttons
















Keyed selector switches

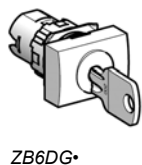
Heads for Ronis Key Operated Selector Switches (1)

(To combine with complete bodies and contact blocks, see page 18)

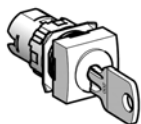
| Number and Type of Positions | Key Withdrawal |  Rectangular Reference |  Square Reference |  Round Reference |
|------------------------------|----------------|--|---|--|
|------------------------------|----------------|--|---|--|

Switching angle: maintained positions 70°, spring return positions 45°

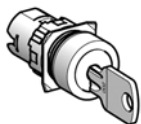
| | | | | |
|--------------------------------------|--|---------|--------|--------|
| 2-maintained |  Right-hand position | ZB6DGA | ZB6CGA | ZB6AGA |
| |  Center position | ZB6DGB | ZB6CGB | ZB6AGB |
| |  Both positions | ZB6DGC | ZB6CGC | ZB6AGC |
| 2-spring return from right to center |  Center position | ZB6DGL | ZB6CGL | ZB6AGL |
| 3-maintained |  Left-hand position | ZB6DGD | ZB6CGD | ZB6AGD |
| |  Center position | ZB6DGE | ZB6CGE | ZB6AGE |
| |  Left-hand and center positions | ZB6DGF | ZB6CGF | ZB6AGF |
| |  Right-hand position | ZB6DGG | ZB6CGG | ZB6AGG |
| |  All 3 positions | ZB6DGH | ZB6CGH | ZB6AGH |
| |  Left-hand and right-hand positions | ZB6DGJ | ZB6CGJ | ZB6AGJ |
| |  Right-hand and center positions | ZB6D GK | ZB6CGK | ZB6AGK |
| 3-spring return from right to center |  Left-hand position | ZB6DGQ | ZB6CGQ | ZB6AGQ |
| |  Center position | ZB6DGR | ZB6CGR | ZB6AGR |
| |  Left-hand and center positions | ZB6DGS | ZB6CGS | ZB6AGS |
| 3-spring return to center |  Center position | ZB6DGT | ZB6CGT | ZB6AGT |



ZB6DG*



ZB6CG*





ZB6AG*

Note:  Indicates key withdrawal position.




(1) Ronis 200 key standard. Other keys available, refer to Catalog 9001CT0001.

Selector Switch Sequence (using contact block assemblies, page 18)

2 Position Selector Switch

|  |  | Contact block guide (2) |
|---|---|-------------------------|
| O | x | 1 N.O. (left or right) |
| x | O | 1 N.C. (left or right) |
| O | x | 1 N.O. and 1 N.C. |
| x | O | |

3 Position Selector Switch

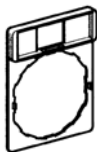
|  |  |  | Contact block guide (2) |
|---|---|---|--|
| O | O | x | 1 N.O. (left) |
| x | O | x | 2 N.O. wired in parallel (side by side) |
| x | O | O | 1 N.O. (right) |
| O | x | x | 1 N.C. (right) |
| x | x | O | 1 N.C. (left) |
| O | x | O | 2 N.C. wired in series (side by side) |

(2) As viewed from the front of the panel. For Legends, see pages 22 and 24.

Harmony™ XB6/ZB6

16 mm push buttons

Accessories



ZB6YD20

Standard Legend Plate (24 x 28 mm) for 8 x 21 mm Legend

| Description | Background Color of Legend | Reference |
|--------------------------|----------------------------|-----------|
| Without legend insert | — | ZB6YD20 |
| With blank legend insert | White or yellow | ZB6YD21 |
| | Black or red | ZB6YD22 |

8 x 21 mm Marked Legends (for 24 x 28 mm legend holder ZB6YD20)

| Color | Marking | Reference | |
|---------------------------------|---------------|-------------|----------|
| White Text | International | O-I | ZB6Y2178 |
| | | I-II | ZB6Y2179 |
| Red Background (Stop and Fault) | International | I-O-II | ZB6Y2186 |
| | | ← O → | ZB6Y2190 |
| Black Background (all others) | English | HAND-O-AUTO | ZB6Y2387 |
| | | CLOSE | ZB6Y2314 |
| | | DOWN | ZB6Y2308 |
| | | FORWARD | ZB6Y2305 |
| | | FAULT | ZB6Y2334 |
| | | LEFT | ZB6Y2310 |
| | | OFF | ZB6Y2312 |
| | | ON | ZB6Y2303 |
| | | OPEN | ZB6Y2313 |
| | | RESET | ZB6Y2323 |
| | | REVERSE | ZB6Y2306 |
| | | RIGHT | ZB6Y2309 |
| | | RUN | ZB6Y2311 |
| | | STOP | ZB6Y2304 |
| | | UP | ZB6Y2307 |



ZB6Y2178






ZB6Y2304

Harmony™ XB6/ZB6

16 mm push buttons

Accessories

Push Button Caps—Marked

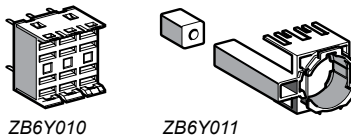
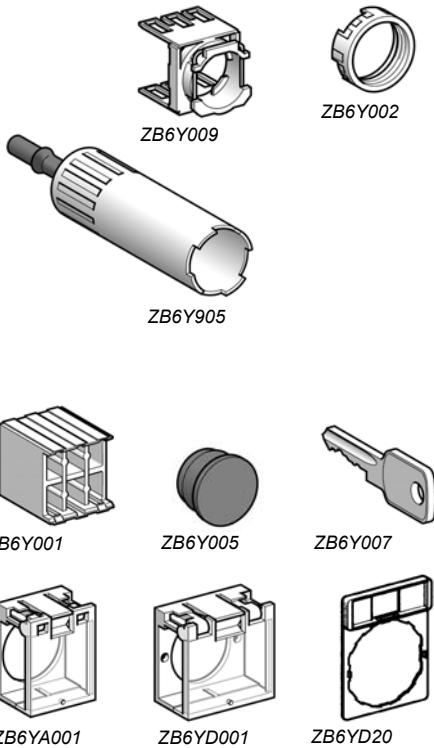
| Ink Marking Color: White on colored cap Black on white cap | | Color |  Rectangular Reference |  Square Reference |  Round Reference |
|--|-------|-------|--|---|--|
| For non-illuminated push buttons | | | | | |
| 0 | White | | ZB6YD100 | ZB6YC100 | ZB6YA100 |
| | Black | | ZB6YD200 | ZB6YC200 | ZB6YA200 |
| 1 | White | | ZB6YD101 | ZB6YC101 | ZB6YA101 |
| | Black | | ZB6YD201 | ZB6YC201 | ZB6YA201 |
| 2 | White | | ZB6YD102 | ZB6YC102 | ZB6YA102 |
| | Black | | ZB6YD202 | ZB6YC202 | ZB6YA202 |
| 3 | White | | ZB6YD103 | ZB6YC103 | ZB6YA103 |
| | Black | | ZB6YD203 | ZB6YC203 | ZB6YA203 |
| 4 | White | | ZB6YD104 | ZB6YC104 | ZB6YA104 |
| | Black | | ZB6YD204 | ZB6YC204 | ZB6YA204 |
| 5 | White | | ZB6YD105 | ZB6YC105 | ZB6YA105 |
| | Black | | ZB6YD205 | ZB6YC205 | ZB6YA205 |
| 6 | White | | ZB6YD106 | ZB6YC106 | ZB6YA106 |
| | Black | | ZB6YD206 | ZB6YC206 | ZB6YA206 |
| 7 | White | | ZB6YD107 | ZB6YC107 | ZB6YA107 |
| | Black | | ZB6YD207 | ZB6YC207 | ZB6YA207 |
| 8 | White | | ZB6YD108 | ZB6YC108 | ZB6YA108 |
| | Black | | ZB6YD208 | ZB6YC208 | ZB6YA208 |
| 9 | White | | ZB6YD109 | ZB6YC109 | ZB6YA109 |
| | Black | | ZB6YD209 | ZB6YC209 | ZB6YA209 |
| ON | White | | ZB6YD117 | ZB6YC117 | ZB6YA117 |
| | Green | | ZB6YD317 | ZB6YC317 | ZB6YA317 |
| OFF | Black | | ZB6YD224 | ZB6YC224 | ZB6YA224 |
| | Red | | ZB6YD424 | ZB6YC424 | ZB6YA424 |
| I | White | | ZB6YD111 | ZB6YC111 | ZB6YA111 |
| | Green | | ZB6YD311 | ZB6YC311 | ZB6YA311 |
| O | Black | | ZB6YD210 | ZB6YC210 | ZB6YA210 |
| | Red | | ZB6YD410 | ZB6YC410 | ZB6YA410 |
| R | Black | | ZB6YD226 | ZB6YC226 | ZB6YA226 |
| | Blue | | ZB6YD626 | ZB6YC626 | ZB6YA626 |
| START | White | | ZB6YD140 | ZB6YC140 | ZB6YA140 |
| | Green | | ZB6YD340 | ZB6YC340 | ZB6YA340 |
| STOP | Black | | ZB6YD241 | ZB6YC241 | ZB6YA241 |
| | Red | | ZB6YD441 | ZB6YC441 | ZB6YA441 |
| II | White | | ZB6YD112 | ZB6YC112 | ZB6YA112 |
| | Black | | ZB6YD212 | ZB6YC212 | ZB6YA212 |
| III | White | | ZB6YD113 | ZB6YC113 | ZB6YA113 |
| | Black | | ZB6YD213 | ZB6YC213 | ZB6YA213 |
| + | White | | ZB6YD114 | ZB6YC114 | ZB6YA114 |
| | Black | | ZB6YD214 | ZB6YC214 | ZB6YA214 |
| - | White | | ZB6YD115 | ZB6YC115 | ZB6YA115 |
| | Black | | ZB6YD215 | ZB6YC215 | ZB6YA215 |
| UP | White | | ZB6YD127 | ZB6YC127 | ZB6YA127 |
| | Black | | ZB6YD227 | ZB6YC227 | ZB6YA227 |
| DOWN | White | | ZB6YD128 | ZB6YC128 | ZB6YA128 |
| | Black | | ZB6YD228 | ZB6YC228 | ZB6YA228 |
| CLOSE | White | | ZB6YD132 | ZB6YC132 | ZB6YA132 |
| | Black | | ZB6YD232 | ZB6YC232 | ZB6YA232 |
| ↑ | White | | ZB6YD119 | ZB6YC119 | ZB6YA119 |
| | Black | | ZB6YD219 | ZB6YC219 | ZB6YA219 |
| ↓ | White | | ZB6YD120 | ZB6YC120 | ZB6YA120 |
| | Black | | ZB6YD220 | ZB6YC220 | ZB6YA220 |
| → | White | | ZB6YD121 | ZB6YC121 | ZB6YA121 |
| | Black | | ZB6YD221 | ZB6YC221 | ZB6YA221 |
| ← | White | | ZB6YD122 | ZB6YC122 | ZB6YA122 |
| | Black | | ZB6YD222 | ZB6YC222 | ZB6YA222 |



Harmony™ XB6/ZB6

16 mm push buttons

Accessories



Accessories

| Description | Application | Reference |
|--|--|-----------|
| Body | Attaching contact blocks | ZB6Y009 |
| Bezel tightening tool + bulb extractor | Mounting the switch and changing bulbs | ZB6Y905 |
| Three piece dismantling tool kit | Removing contacts, mounting nuts and push button caps | ZB6Y019 |
| Nut | Mounting head to panel | ZB6Y002 |
| Adaptor | Flush mounting a circular head push button or pilot light in 22 mm cut-out | ZB6YA002 |
| Shroud | Protecting contacts against touching | ZB6Y001 |
| Protective cover | Circular and square head push buttons and switches | ZB6YA001 |
| | Rectangular head push buttons and switches | ZB6YD001 |
| Female Quick connector/Solder tab | Sold in lots of 100 pieces | ZB6Y004 |
| Blanking plug | Plugging an unused knockout | ZB6Y005 |
| Ronis key, 2 pieces | Key operated selector switches and emergency stop mushroom | ZB6Y007 |
| Incandescent bulbs, bayonet T1 1/4 | 6 V | ZB6YA006 |
| | 12 V | ZB6YJ012 |
| | 28 V (1) | ZB6YB028 |
| Neon bulbs | 110/230 V (2) | ZB6YG095 |

(1) 28 V bulb supplied, for use on 24 V.
 (2) 95 V bulb supplied, for use on 110/230 V.

Standard Legend Plate (24 x 28 mm) for 8 x 21 mm Legend (3)

| Description | Background Color of Legend | Reference |
|--------------------------|----------------------------|-----------|
| Without legend insert | — | ZB6YD20 |
| With blank legend insert | White or yellow | ZB6YD21 |
| | Black or red | ZB6YD22 |

8 x 21 mm Marked Legends (for 24 x 28 mm legend holder ZB6YD20) (3)

| Color | Marking | Reference | |
|--|---------------|-----------|----------|
| White Text Red Background (Stop and Fault) Black Background (all others) | International | O-I | ZB6Y2178 |
| | | I-II | ZB6Y2179 |
| | | I-O-II | ZB6Y2186 |
| | | ← O → | ZB6Y2190 |
| English | HAND-O-AUTO | ZB6Y2387 | |
| | CLOSE | ZB6Y2314 | |
| | DOWN | ZB6Y2308 | |
| | FORWARD | ZB6Y2305 | |
| | FAULT | ZB6Y2334 | |
| | LEFT | ZB6Y2310 | |
| | OFF | ZB6Y2312 | |
| | ON | ZB6Y2303 | |
| | OPEN | ZB6Y2313 | |
| | RESET | ZB6Y2323 | |
| | REVERSE | ZB6Y2306 | |
| | RIGHT | ZB6Y2309 | |
| | RUN | ZB6Y2311 | |
| STOP | ZB6Y2304 | | |
| UP | ZB6Y2307 | | |

(3) Additional legend plate sizes and markings are available in Catalog 9001CT0001.

Circular Legends, 45 mm

| Description | Color | Text | Reference |
|-------------------------|--------|----------------|-----------|
| Circular legends, 45 mm | Yellow | Blank | ZB6Y7001 |
| | | Emergency stop | ZB6Y7330 |

Accessories for Printed Circuit Board Mounting

| Description | for use with | Reference |
|------------------------|----------------------------------|-----------|
| Plug-in Socket Adapter | contact blocks and light modules | ZB6Y010 |
| Body Bracket | plug-in socket adapter | ZB6Y011 |

Harmony™ XB6/ZB6 16 mm push buttons

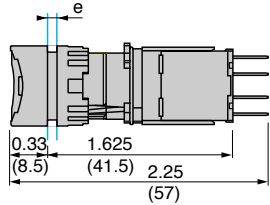
Push buttons (illuminated and non illuminated)

Rectangular head

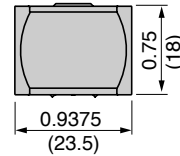
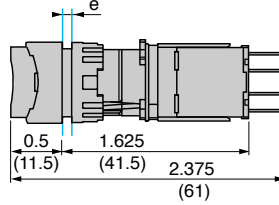
XB6DW●●●●, DF●●●●, DA●●

XB6DE●●●●

Common face view



e: panel thickness
1 to 6 mm

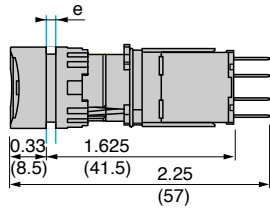


Square head

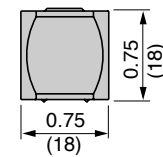
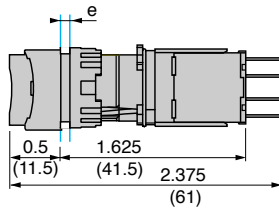
XB6CW●●●●, CF●●●●, CA●●

XB6CE●●●●

Common face view



e: panel thickness
1 to 6 mm

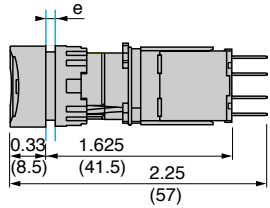


Circular head

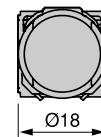
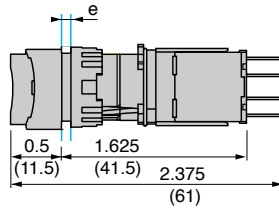
XB6AW●●●●, AF●●●●, AA●●

XB6AE●●●●

Common face view



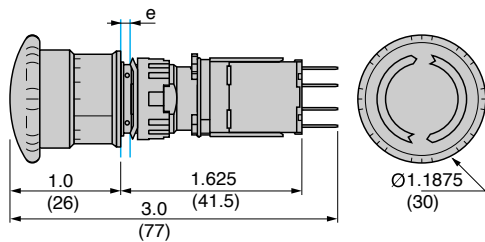
e: panel thickness
1 to 6 mm



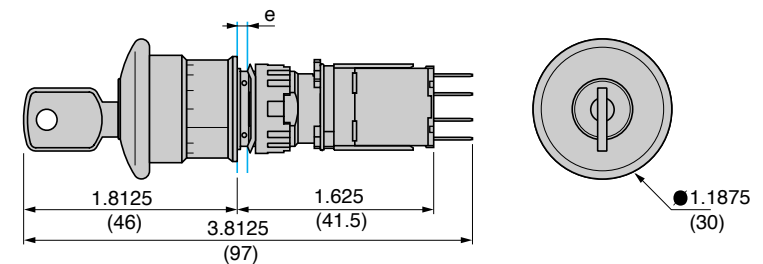
Mushroom head push buttons

XB6AS8349B

XB6AS9349B



e: panel thickness 1 to 6 mm



Pilot lights

Common side view

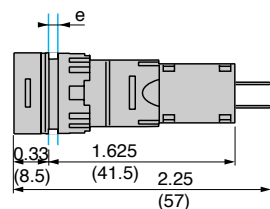
XB6DV●●●, XB6CV●●●

Rectangular head

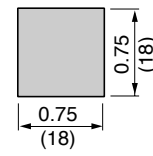
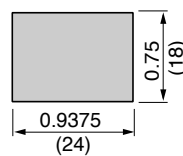
XB6DV●●●

Square head

XB6CV●●●

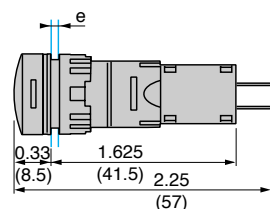


e: panel thickness
1 to 6 mm

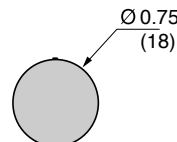


Circular head

XB6AV●●●



e: panel thickness
1 to 6 mm



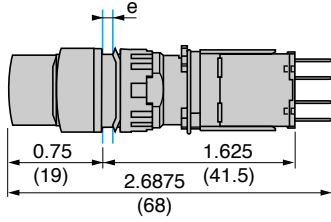
Dual Dimensions: in (mm)

Harmony™ XB6/ZB6 16 mm push buttons

Selector switches, standard handle (illuminated and non illuminated)

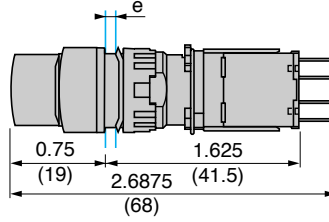
Rectangular head

XB6DD●●●●,



Square head

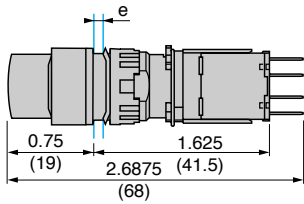
XB6CD●●●●,



e: panel thickness 1 to 6 mm

Circular head

XB6AD●●●●

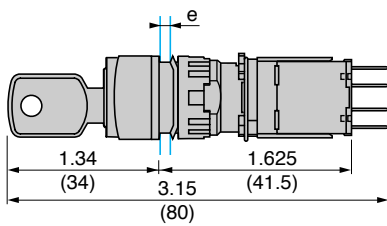


e: panel thickness 1 to 6 mm

Key switches

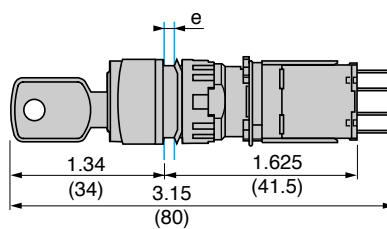
Rectangular head

XB6DG●●●



Square head

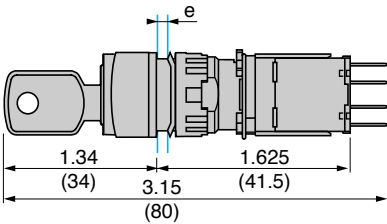
XB6CG●●●



e: panel thickness 1 to 6 mm

Circular head

XB6AG●●●



e: panel thickness 1 to 6 mm

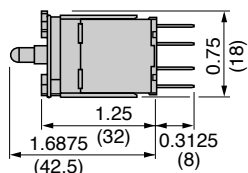
Dual Dimensions: in (mm)

Harmony™ XB6/ZB6 16 mm push buttons

Push buttons

Bodies for illuminated push buttons

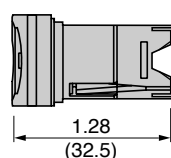
ZB6Z●●B



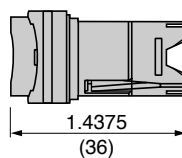
Heads for illuminated and non illuminated push buttons

Rectangular

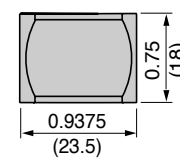
ZB6DW●, DF●, DA●



ZB6DE●

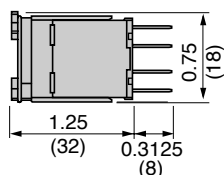


Common face view



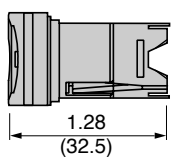
Bodies for non illuminated push buttons

ZB6Z●B

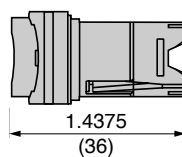


Square

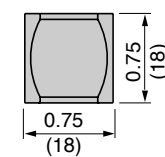
ZB6CW●, CF●, CA●



ZB6CE●

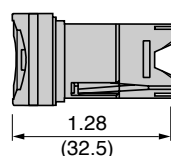


Common face view

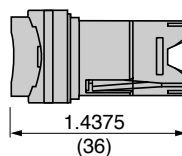


Circular

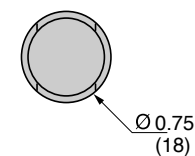
ZB6AW●, AF●, AA●



ZB6AE●



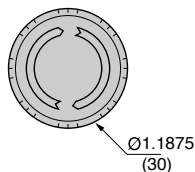
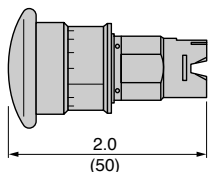
Common face view



Heads for mushroom head push buttons

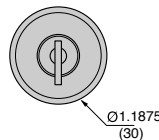
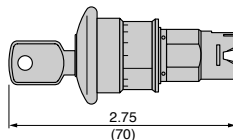
Trigger action

ZB6AS834



Trigger action

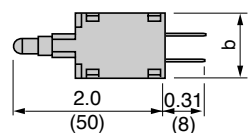
ZB6AS934



Pilot lights

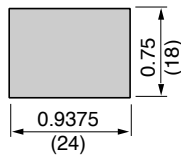
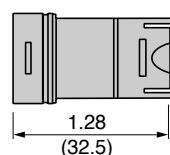
Bodies

ZB6EB●●



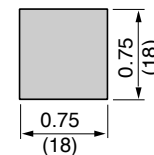
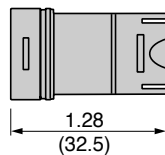
Rectangular head

ZB6DV●



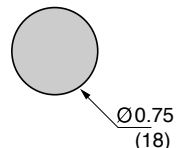
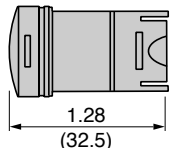
Square head

ZB6CV●



Circular head

ZB6AV●



Dual Dimensions: in (mm)

Product range:
page 5

Specifications:
page 10

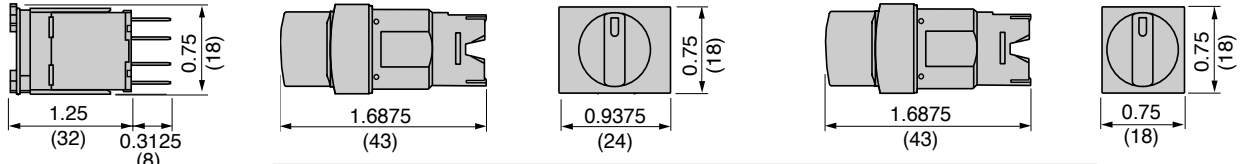
Assembled products:
page 12

References:
page 15

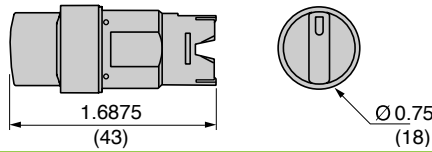
Harmony™ XB6/ZB6 16 mm push buttons

Selector switches, standard handle (illuminated and non illuminated)

| Bodies | Rectangular head | Square head |
|--------|------------------|-------------|
| ZB6Z●B | ZB6DD●● | ZB6CD●● |

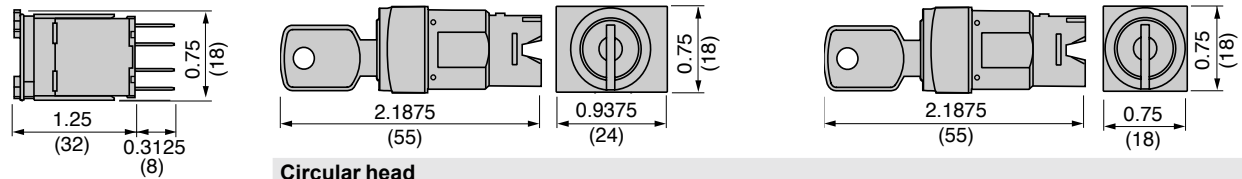


Circular head ZB6AD●●

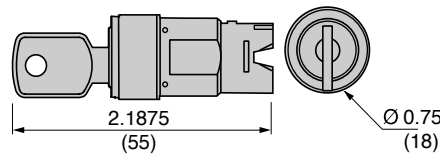


Key switches

| Bodies | Rectangular head | Square head |
|--------|------------------|-------------|
| ZB6Z●B | ZB6DG● | ZB6CG● |

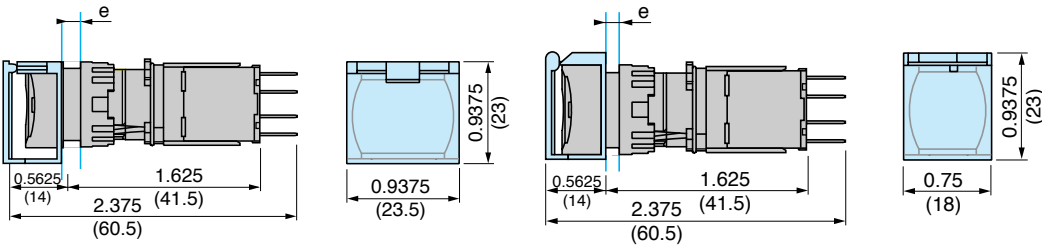


Circular head ZB6AG●



Protective shutter

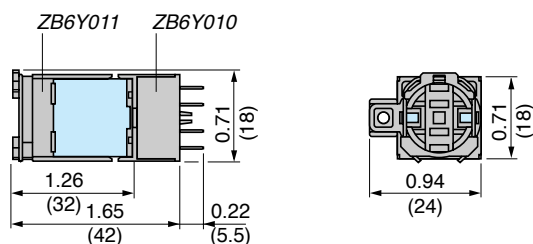
| For rectangular head | For square or circular head |
|----------------------|-----------------------------|
| ZB6YD001 | ZB6YA001 |



e: panel thickness 1 to 6 mm

Plug-in socket adaptor for printed circuit board mounting and body bracket

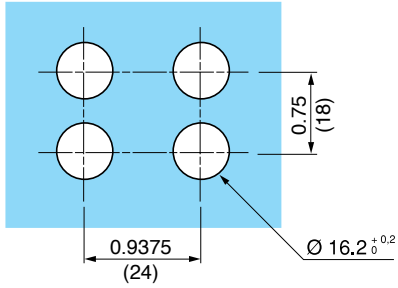
ZB6Y010 + ZB6Y011



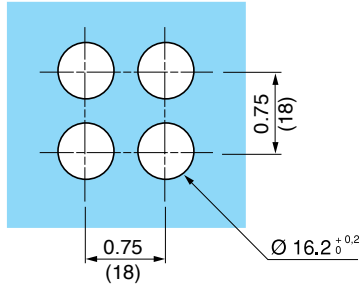
Dual Dimensions: in (mm)

Panel cut-out and mounting

Rectangular head



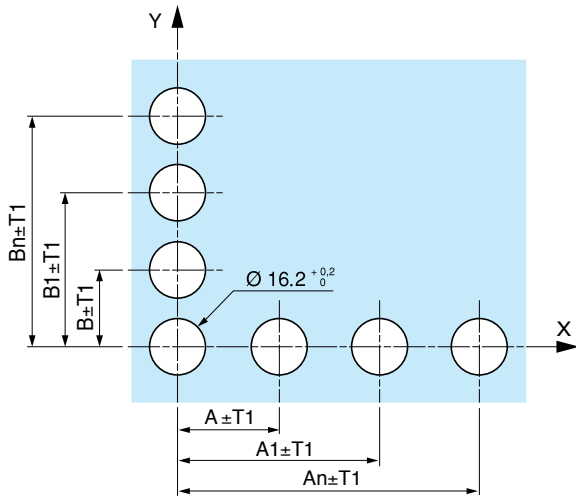
Square or circular head



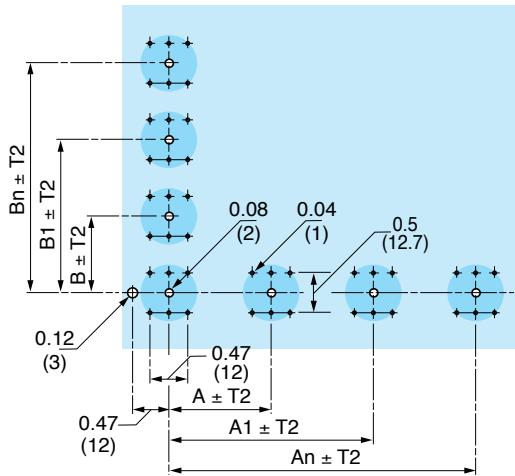
Dual Dimensions: in (mm)

Push buttons, switches and pilot lights for printed circuit board connection

Front panel cut-out (viewed from installer's side)



Printed circuit board drillings (viewed from electrical block side) (1)



A: 24 mm minimum for rectangular heads
18 mm minimum for square or circular heads

B:: 18 mm minimum

1 6 x Ø 1.1 mm holes.

2 1 x Ø 2.6 $\text{Ø } 0.2$ hole for locating pin, only when using socket adaptor ZB6Y010.

3 1 x Ø 3.2 $\text{Ø } 0.2$ hole for mounting of printed circuit board onto the front panel using body bracket ZB6Y011.

This hole must be drilled on the left side, when heads are positioned at the normal angle. Attach a body bracket ZB6Y011 every 72 mm maximum for cut-outs on 24 mm centers (rectangular heads) and 54 mm maximum for cut-outs on 18 mm centers (square or circular heads).

General tolerances of the panel and printed circuit board: T1, T2

The cumulative tolerance must not exceed 0.3 mm: $T1 + T2 = 0.3 \text{ mm maximum}$.

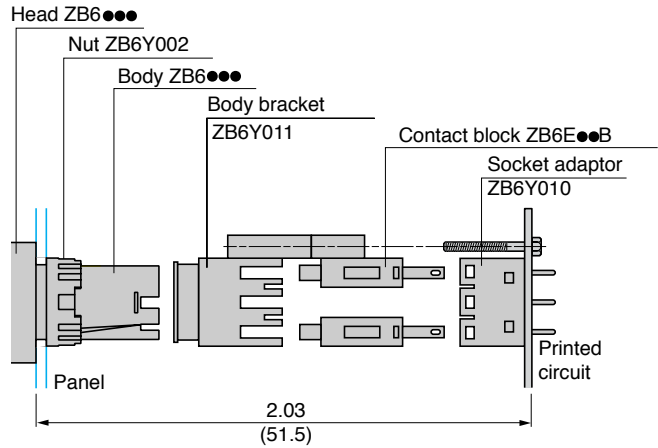
Installation precautions:

Thickness of printed circuit board: 1.6 mm minimum.

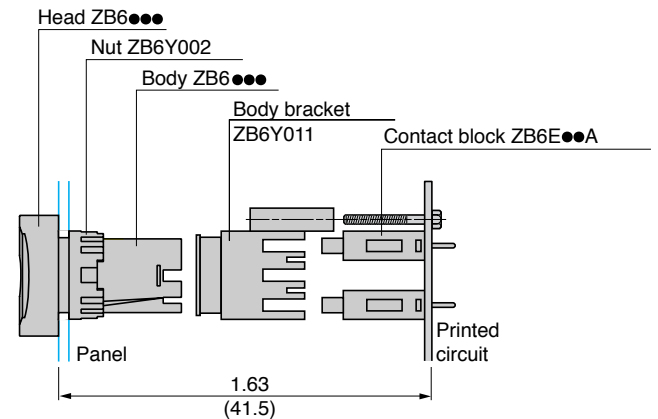
(1) The cut-out dimensions are the same for direct mounting and for mounting using socket adaptor ZB6Y010.

Mounting with body bracket

With socket adaptor ZB6Y010



Direct mounting without socket adaptor ZB6Y010



Dual Dimensions: in (mm)

Harmony™ XB6/ZB6 16 mm push buttons

| | | | | | | | |
|----------|------------|----------|----|----------|----------------|----------|----------------|
| ZB6EG5B | 18 | ZB6YA206 | 23 | ZB6YC228 | 23 | ZB6Z2B | 12, 13, 14, 18 |
| ZB6EG6B | 18 | ZB6YA207 | 23 | ZB6YC232 | 23 | ZB6Z3B | 18 |
| ZB6EH0B | 18 | ZB6YA208 | 23 | ZB6YC241 | 23 | ZB6Z4B | 18 |
| ZB6EM0B | 18 | ZB6YA209 | 23 | ZB6YC311 | 23 | ZB6Z5B | 12, 13, 18 |
| ZB6E●1B | 12 | ZB6YA210 | 23 | ZB6YC317 | 23 | ZB6ZB11B | 18 |
| ZB6E●3B | 12 | ZB6YA212 | 23 | ZB6YC340 | 23 | ZB6ZB15B | 18 |
| ZB6E●4B | 12 | ZB6YA213 | 23 | ZB6YC410 | 23 | ZB6ZB31B | 18 |
| ZB6E●5B | 12 | ZB6YA214 | 23 | ZB6YC424 | 23 | ZB6ZB35B | 18 |
| ZB6E●6B | 12 | ZB6YA215 | 23 | ZB6YC441 | 23 | ZB6ZB42B | 18 |
| ZB6Y001 | 24 | ZB6YA219 | 23 | ZB6YC626 | 23 | ZB6ZB45B | 18 |
| ZB6Y002 | 24 | ZB6YA220 | 23 | ZB6YD001 | 24 | ZB6ZB51B | 18 |
| ZB6Y004 | 24 | ZB6YA221 | 23 | ZB6YD100 | 23 | ZB6ZB52B | 18 |
| ZB6Y005 | 24 | ZB6YA222 | 23 | ZB6YD101 | 23 | ZB6ZB55B | 18 |
| ZB6Y007 | 24 | ZB6YA224 | 23 | ZB6YD102 | 23 | ZB6ZB61B | 18 |
| ZB6Y009 | 24 | ZB6YA226 | 23 | ZB6YD103 | 23 | ZB6ZB65B | 18 |
| ZB6Y010 | 24 | ZB6YA227 | 23 | ZB6YD104 | 23 | ZB6ZG11B | 18 |
| ZB6Y011 | 24 | ZB6YA228 | 23 | ZB6YD105 | 23 | ZB6ZG15B | 18 |
| ZB6Y019 | 24 | ZB6YA232 | 23 | ZB6YD106 | 23 | ZB6ZG31B | 18 |
| ZB6Y2178 | 22, 24 | ZB6YA241 | 23 | ZB6YD107 | 23 | ZB6ZG35B | 18 |
| ZB6Y2179 | 22, 24 | ZB6YA311 | 23 | ZB6YD108 | 23 | ZB6ZG42B | 18 |
| ZB6Y2186 | 22, 24 | ZB6YA317 | 23 | ZB6YD109 | 23 | ZB6ZG45B | 18 |
| ZB6Y2190 | 22, 24 | ZB6YA340 | 23 | ZB6YD111 | 23 | ZB6ZG51B | 18 |
| ZB6Y2303 | 22, 24 | ZB6YA410 | 23 | ZB6YD112 | 23 | ZB6ZG52B | 18 |
| ZB6Y2304 | 22, 24 | ZB6YA424 | 23 | ZB6YD113 | 23 | ZB6ZG55B | 18 |
| ZB6Y2305 | 22, 24 | ZB6YA441 | 23 | ZB6YD114 | 23 | ZB6ZG61B | 18 |
| ZB6Y2306 | 22, 24 | ZB6YA626 | 23 | ZB6YD115 | 23 | ZB6ZG65B | 18 |
| ZB6Y2307 | 22, 24 | ZB6YB028 | 24 | ZB6YD117 | 23 | ZB6ZH01B | 18 |
| ZB6Y2308 | 22, 24 | ZB6YC100 | 23 | ZB6YD119 | 23 | ZB6ZH02B | 18 |
| ZB6Y2309 | 22, 24 | ZB6YC101 | 23 | ZB6YD120 | 23 | ZB6ZH05B | 18 |
| ZB6Y2310 | 22, 24 | ZB6YC102 | 23 | ZB6YD121 | 23 | | |
| ZB6Y2311 | 22, 24 | ZB6YC103 | 23 | ZB6YD122 | 23 | | |
| ZB6Y2312 | 22, 24 | ZB6YC104 | 23 | ZB6YD127 | 23 | | |
| ZB6Y2313 | 22, 24 | ZB6YC105 | 23 | ZB6YD128 | 23 | | |
| ZB6Y2314 | 22, 24 | ZB6YC106 | 23 | ZB6YD132 | 23 | | |
| ZB6Y2323 | 22, 24 | ZB6YC107 | 23 | ZB6YD140 | 23 | | |
| ZB6Y2334 | 22, 24 | ZB6YC108 | 23 | ZB6YD20 | 22, 24 | | |
| ZB6Y2387 | 22, 24 | ZB6YC109 | 23 | ZB6YD200 | 23 | | |
| ZB6Y7001 | 16, 20, 24 | ZB6YC111 | 23 | ZB6YD201 | 23 | | |
| ZB6Y7330 | 16, 20, 24 | ZB6YC112 | 23 | ZB6YD202 | 23 | | |
| ZB6Y905 | 24 | ZB6YC113 | 23 | ZB6YD203 | 23 | | |
| ZB6YA001 | 24 | ZB6YC114 | 23 | ZB6YD204 | 23 | | |
| ZB6YA002 | 24 | ZB6YC115 | 23 | ZB6YD205 | 23 | | |
| ZB6YA006 | 24 | ZB6YC117 | 23 | ZB6YD206 | 23 | | |
| ZB6YA100 | 23 | ZB6YC119 | 23 | ZB6YD207 | 23 | | |
| ZB6YA101 | 23 | ZB6YC120 | 23 | ZB6YD208 | 23 | | |
| ZB6YA102 | 23 | ZB6YC121 | 23 | ZB6YD209 | 23 | | |
| ZB6YA103 | 23 | ZB6YC122 | 23 | ZB6YD21 | 22, 24 | | |
| ZB6YA104 | 23 | ZB6YC127 | 23 | ZB6YD210 | 23 | | |
| ZB6YA105 | 23 | ZB6YC128 | 23 | ZB6YD212 | 23 | | |
| ZB6YA106 | 23 | ZB6YC132 | 23 | ZB6YD213 | 23 | | |
| ZB6YA107 | 23 | ZB6YC140 | 23 | ZB6YD214 | 23 | | |
| ZB6YA108 | 23 | ZB6YC200 | 23 | ZB6YD215 | 23 | | |
| ZB6YA109 | 23 | ZB6YC201 | 23 | ZB6YD219 | 23 | | |
| ZB6YA111 | 23 | ZB6YC202 | 23 | ZB6YD22 | 22, 24 | | |
| ZB6YA112 | 23 | ZB6YC203 | 23 | ZB6YD220 | 23 | | |
| ZB6YA113 | 23 | ZB6YC204 | 23 | ZB6YD221 | 23 | | |
| ZB6YA114 | 23 | ZB6YC205 | 23 | ZB6YD222 | 23 | | |
| ZB6YA115 | 23 | ZB6YC206 | 23 | ZB6YD224 | 23 | | |
| ZB6YA117 | 23 | ZB6YC207 | 23 | ZB6YD226 | 23 | | |
| ZB6YA119 | 23 | ZB6YC208 | 23 | ZB6YD227 | 23 | | |
| ZB6YA120 | 23 | ZB6YC209 | 23 | ZB6YD228 | 23 | | |
| ZB6YA121 | 23 | ZB6YC210 | 23 | ZB6YD232 | 23 | | |
| ZB6YA122 | 23 | ZB6YC212 | 23 | ZB6YD241 | 23 | | |
| ZB6YA127 | 23 | ZB6YC213 | 23 | ZB6YD311 | 23 | | |
| ZB6YA128 | 23 | ZB6YC214 | 23 | ZB6YD317 | 23 | | |
| ZB6YA132 | 23 | ZB6YC215 | 23 | ZB6YD340 | 23 | | |
| ZB6YA140 | 23 | ZB6YC219 | 23 | ZB6YD410 | 23 | | |
| ZB6YA200 | 23 | ZB6YC220 | 23 | ZB6YD424 | 23 | | |
| ZB6YA201 | 23 | ZB6YC221 | 23 | ZB6YD441 | 23 | | |
| ZB6YA202 | 23 | ZB6YC222 | 23 | ZB6YD626 | 23 | | |
| ZB6YA203 | 23 | ZB6YC224 | 23 | ZB6YG095 | 24 | | |
| ZB6YA204 | 23 | ZB6YC226 | 23 | ZB6YJ012 | 24 | | |
| ZB6YA205 | 23 | ZB6YC227 | 23 | ZB6Z1B | 12, 13, 14, 18 | | |

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