Harmony™ XB6/ZB6
16 mm push buttons

Catalog
2011



Schneider Electric™

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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

Specifications: page 10 | Assembled products: page 12 | References: page 15 | Dimensions: page 25

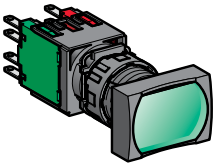
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Harmony™ XB6/ZB6
16 mm push buttons

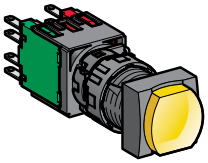
Description

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

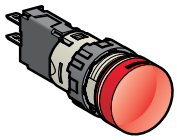
Complete units
XB6 push buttons, switches and pilot lights



XB6D with rectangular head

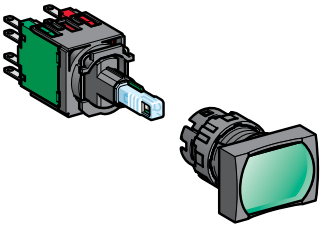


XB6C with square head



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

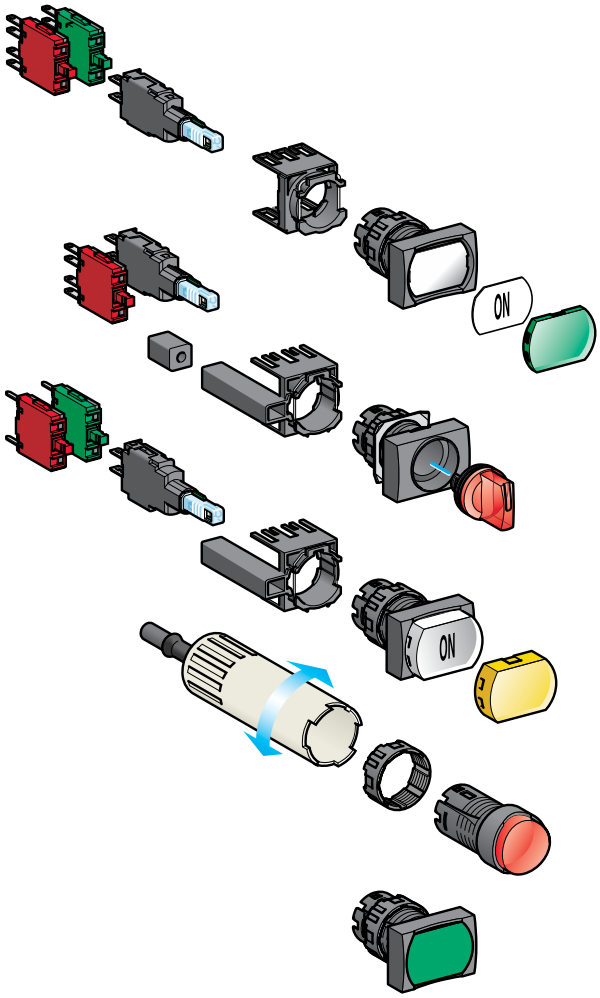


ZB6A with circular head

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



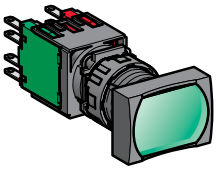
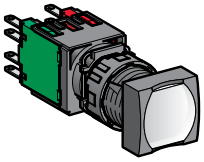
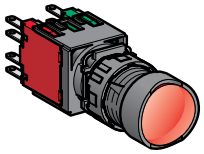
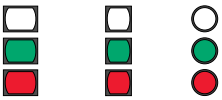
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Complete units

Combined functions (contact + signaling)

Illuminated push buttons with rectangular, square or circular head | **Head colors**

Illuminated push buttons

Protected LED

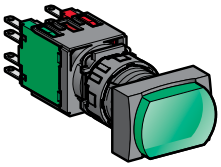
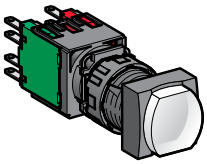
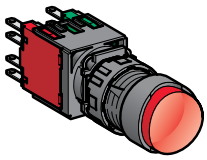
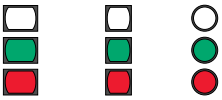
Full guard with integral LED, spring return

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

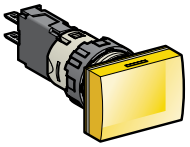
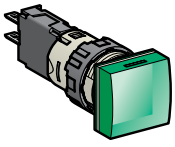
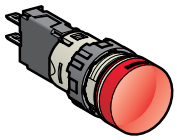
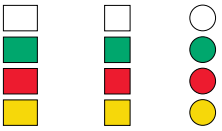
No guard with integral LED, spring return

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

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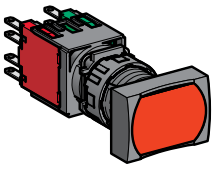
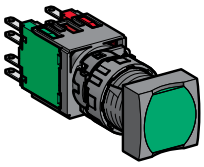
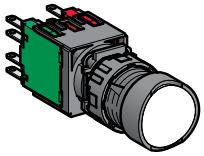
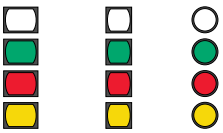
Complete units (continued)

Contact functions

Push buttons with rectangular, square or circular head

Head colors

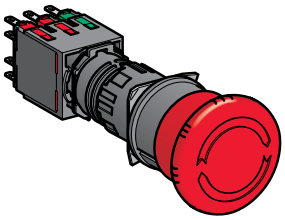
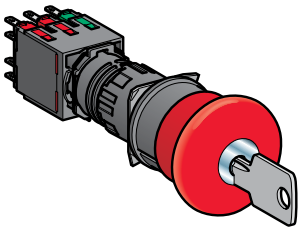
Push buttons, spring return

Full guard

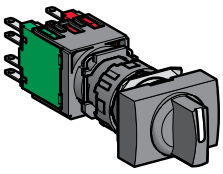
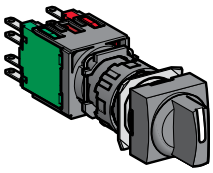
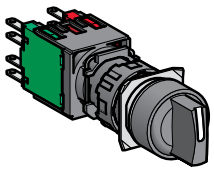
XB6DA●●●	XB6CA●●●	XB6AA●●●
page 16	page 16	page 16

Mushroom head, Emergency stop, maintained and trigger action

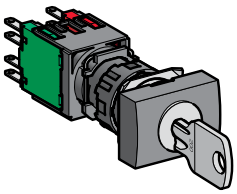
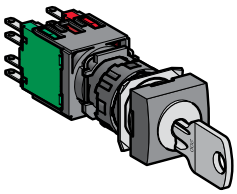
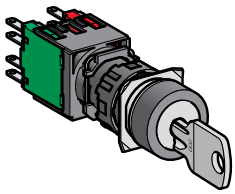

Turn to release (EN/ISO 13850: 2006)	Key release (EN/ISO 13850: 2006)
XB6AS834●B	XB6AS934●B
page 13	page 13

Selector switches and key switches


Standard handle operator

XB6DD●●●	XB6CD●●●	XB6AD●●●
page 17	page 17	page 17


Key switches

XB6DG●●●	XB6CG●●●	XB6AG●●●
page 17	page 17	page 17

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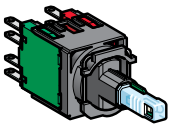
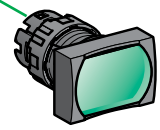
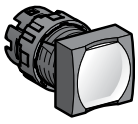
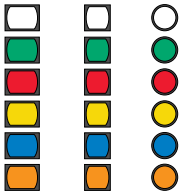
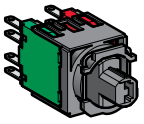
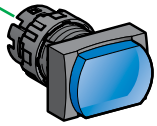
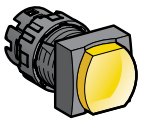
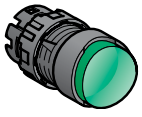
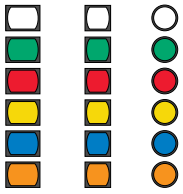
Harmony™ XB6/ZB6
16 mm push buttons

Illuminated units for user assembly

Combined functions (contact + signaling)

For illuminated push buttons and selector switches

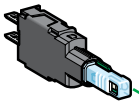
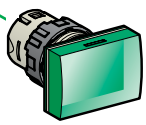
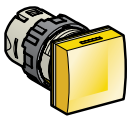
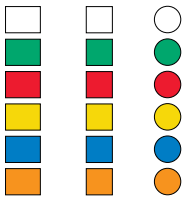
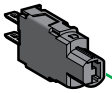
Protected LED

Body sub-assemblies	Head sub-assemblies, rectangular, square or circular			Head colors
With integral LED				
				
Quick connector	**Full guard, spring return**			
ZB6ZB●●B page 18	ZB6DW● page 19	ZB6CW● page 19	ZB6AW● page 19	
	Full guard, maintained			
	ZB6DF●●●B page 19	ZB6CF●●●B page 19	ZB6AF●●●B page 19	
Direct supply for incandescent bulb				
				
Quick connector	**No guard, spring return**			
ZB6ZH●●B page 18	ZB6DE● page 19	ZB6CE● page 19	ZB6AE● page 19	

Signaling functions

For pilot lights

Protected LED

Body sub-assemblies	Head sub-assemblies, rectangular, square or circular			Head colors
With integral LED				
				
Quick connector				
ZB6E●●B page 18	ZB6DV● page 19	ZB6CV● page 19	ZB6AV● page 19	
Direct supply for incandescent bulb or with resistor				
				
Quick connector				
ZB6E●0B page 18				

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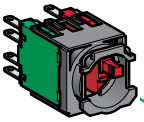
Non illuminated units for user assembly

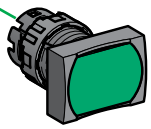
Contact functions

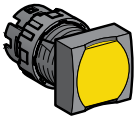
Body sub-assemblies	Head sub-assemblies, rectangular, square or circular	Head colors

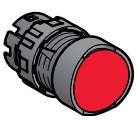
For push buttons

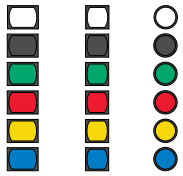
Direct supply for incandescent bulb









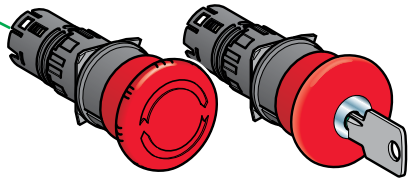


Quick connector
ZB6Z●B
page 18

Full guard, spring return

ZB6DA●	ZB6CA●	ZB6AA●
page 20	page 20	page 20

For mushroom head push buttons and Emergency stop heads

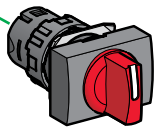


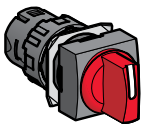


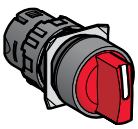
Maintained, trigger action 30 mm (EN/ISO 13850: 2006)

Turn to release	Key release
ZB6AS834	ZB6AS934
page 20	page 20

For selector switches and key switches



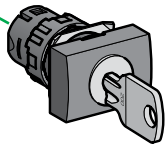


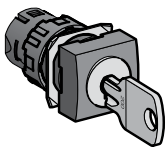


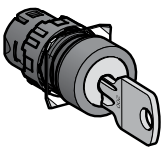


Standard handle operator

ZB6DD●●	ZB6CD●●	ZB6AD●●
page 20	page 20	page 20









Key switches

ZB6DG●●	ZB6CG●●	ZB6AG●●
page 21	page 21	page 21

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Harmony™ XB6/ZB6
16 mm push buttons

Environmental specifications

Conforming to standards	CE Marked RoHS		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

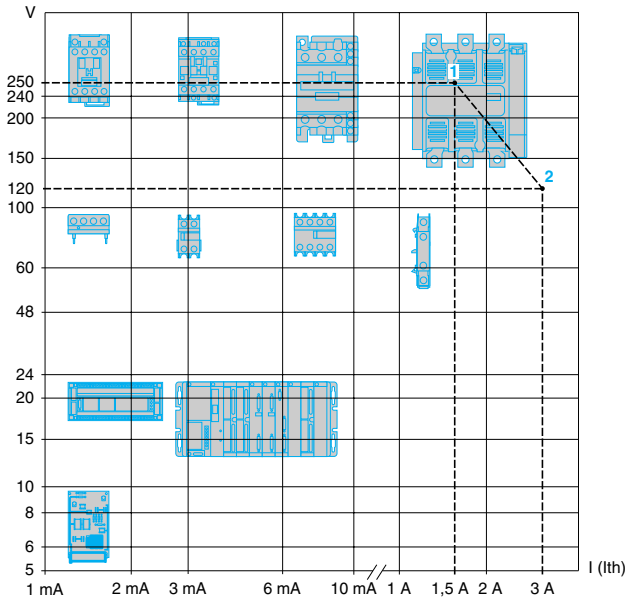
Voltage limits			6 - 30 Vac/Vdc
Current draw		**mA**	15
Surge withstand	Conforming to IEC 61000-4-5	**kV**	2/1
Resistance to fast transients	Conforming to IEC 61000-4-4	**kV**	2
Resistance to electromagnetic fields	Conforming to IEC 61000-4-3	**V/m**	10
Resistance to electrostatic discharges	Conforming 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

Product range: page 5 | Assembled products: page 12 | References: page 15 | Dimensions: page 25

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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



1 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

2 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

Product range: page 5 | Assembled products: page 12 | References: page 15 | Dimensions: page 25

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Harmony™ XB6/ZB6
16 mm push buttons
Contact functions and light functions with integral LED



Illuminated push buttons

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

*(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** (XB6**D**W1B1B becomes XB6**C**W1B1B).*
*For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6**D**W1B1B becomes XB6**A**W1B1B).*
(3) Use ZB6Y010 Plug-in Socket Adapter for 1 x 0.5 pin printed circuit board connection.

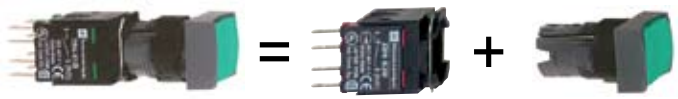
Voltage Table

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

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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** (XB6**D**A11B becomes XB6**C**A11B).*
*For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6**D**A11B becomes XB6**A**A11B).*
(2) Alternative connection: 1 x 0.5 pins for printed circuit boards.



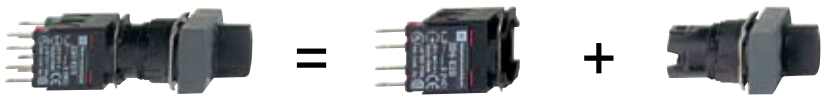
Mushroom head Emergency stop push buttons *(3)*

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).

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Harmony™ XB6/ZB6
16 mm push buttons
Contact functions and light functions with integral LED

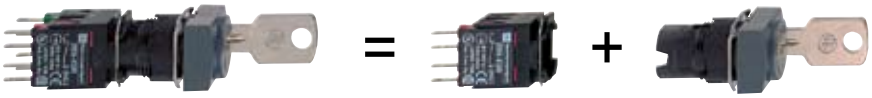


Non-illuminated selector switches and key switches

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		**2 positions** maintained 60°	**2 positions** maintained 60°		**2 positions** spring return to center 45°	
References	N/O	**XB6DD221B**	**ZB6Z1B**	**ZB6DD22**	**ZB6Z1B**	**ZB6DD24**
	N/C + N/O	**XB6DD225B**	**ZB6Z5B**	**ZB6DD22**	**ZB6Z5B**	**ZB6DD24**
Number and type of positions		**3 positions** maintained 60° 60°	**3 positions** maintained 60° 60°		**3 positions** spring return to center 45° 45°	
References	N/O	**XB6DD235B**	**ZB6Z5B**	**ZB6DD23**	**ZB6Z5B**	**ZB6DD25**



Type of operator: Ronis key, No. 200

		Complete products	Products for user assembly			
Number and type of positions		**2 positions** maintained 70°	**2 positions** maintained 70°		**2 positions** spring return to center 45°	
References	N/C + N/O	**XB6DGC5B**	**ZB6Z5B**	**ZB6DGC**	**ZB6Z5B**	**ZB6DGB**
Number and type of positions		**3 positions** maintained 70° 70°	**3 positions** maintained 70° 70°		**3 positions** spring return to center 45° 45°	
References	N/C + N/O	**XB6DGH5B**	**ZB6Z5B**	**ZB6DGH**	**ZB6Z5B**	**ZB6DGS**

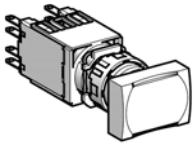
*(1) For products with a square head, replace the letter **D** in the reference by the letter **C** (XB6**D**D221B becomes XB6**C**D221B).*
*For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6**D**D221B becomes XB6**A**D221B).*
(2) Alternative connection: 1 x 0.5 pins for printed circuit boards.

Voltage Table

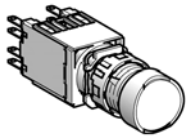
Voltage	Letter (●)
12 to 24 V AC/DC (15 mA)	B
48 to 120 V AC (25 mA)	G
230 to 240 V AC (25 mA)	M

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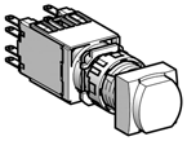
Harmony™ XB6/ZB6
16 mm push buttons
Complete units



XB6DW•••B



XB6AF•••B



XB6CE•••B

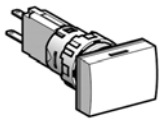
Illuminated Push Buttons (12–24 Vac/Vdc LED included)
Complete Units with Quick Connectors/Solder Tabs

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

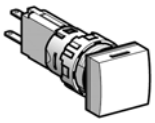
Illuminated Push Buttons 120 Vac LED are available as Complete Units with Quick Connectors/Solder Tabs. Use 12–24 V table above. Change Voltage Code (2nd B) to "G". Example: XB6DW1B1B (White 24 V, 1 N.O.) becomes XB6DW1G1B.
For Legends, see pages 22 and 24.

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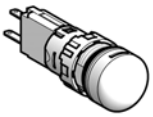
Harmony™ XB6/ZB6
16 mm push buttons
Complete units



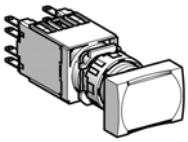
XB6DV••B



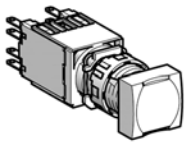
XB6CV••B



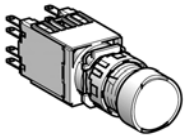
XB6AV••B



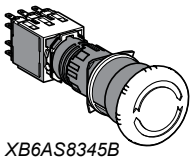
XB6DA••B



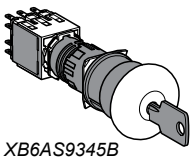
XB6CA••B



XB6AA••B



XB6AS8345B



XB6AS9345B



ZB6Y7330

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

Color	Rectangular Reference	Square Reference	Round 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 Reference	Square Reference	Round 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 N.O.	Type of Contact N.C.	Color	Rectangular Reference	Square Reference	Round Reference
Flush, spring return	1	—	White	**XB6DA11B**	**XB6CA11B**	**XB6AA11B**
			Black	**XB6DA21B**	**XB6CA21B**	**XB6AA21B**
			Green	**XB6DA31B**	**XB6CA31B**	**XB6AA31B**
			Yellow	**XB6DA51B**	**XB6CA51B**	**XB6AA51B**
			Blue	**XB6DA61B**	**XB6CA61B**	**XB6AA61B**
	—	1	Black	**XB6DA22B**	**XB6CA22B**	**XB6AA22B**
			Red	**XB6DA42B**	**XB6CA42B**	**XB6AA42B**
	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 N.O.	Type of Contact N.C.	Diameter of Head (mm)	Reference
	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).

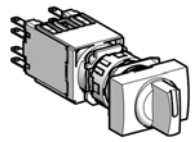
Circular Legends, 45 mm

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

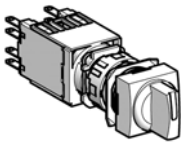
For Legends, pages 22 and 24.

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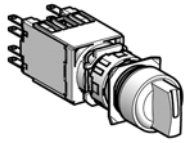
Harmony™ XB6/ZB6
16 mm push buttons
Complete units



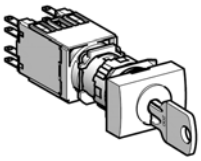
XB6DD•••B



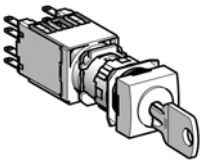
XB6CD•••B



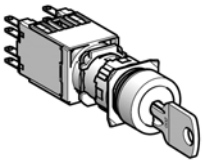
XB6AD•••B



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

Type of Operator	Type of Contact N.O.	Type of Contact N.C.	Number and Type of Positions	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 1 N.C.
x	O	

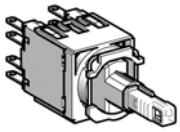
3 Position Selector Switch

			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)

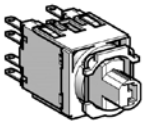
(1) As viewed from the front of the panel.
For Legends, see pages 22 and 24.

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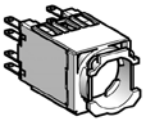
Harmony™ XB6/ZB6
16 mm push buttons
Electrical components



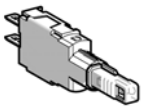
ZB6ZB••B



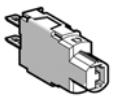
ZB6ZH••B



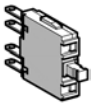
ZB6Z•B



ZB6E••B



ZB6E•0B



ZB6E•B

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

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

Contact Blocks for Push Buttons and Selector Switches

Description	Type of Contact N.O.	Type of Contact N.C.	Reference
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**
	120 Vac	White	**ZB6EG1B**
		Green	**ZB6EG3B**
		Red	**ZB6EG4B**
		Yellow	**ZB6EG5B**
		Blue	**ZB6EG6B**
With resistor for 95 V neon bulb (not included) *(4)* *(5)*	110 Vac	—	**ZB6EG0B**
	230 Vac	—	**ZB6EM0B**
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.)

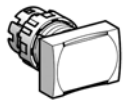
Contact Material	For use with mounting base	Type of Contact N.O.	Type of Contact N.C.	Reference
Silver alloy	Quick connectors/solder tabs	1	—	**ZB6E1B**
		—	1	**ZB6E2B**
Gold flashed	Quick connectors/solder tabs	1	—	**ZB6E1E**
		—	1	**ZB6E2E**

(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.

Product range: page 5 | Specifications: page 10 | Assembled products: page 12 | Dimensions: page 25

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Harmony™ XB6/ZB6
16 mm push buttons
Illuminated operators



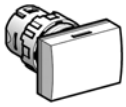
ZB6DW•



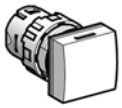
ZB6CE•



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 Reference	Square Reference	Round 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).

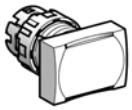
Heads for Pilot Lights
(To combine with light modules, see page 18)

Color	Rectangular Reference	Square Reference	Round 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**

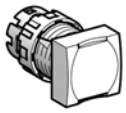
(2) Five different color caps included with head (white, green, red, yellow, and blue).
For Legends, see pages 22 and 24.

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Harmony™ XB6/ZB6
16 mm push buttons
Non-illuminated operators and selector switches



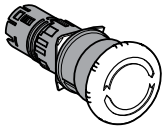
ZB6DA•



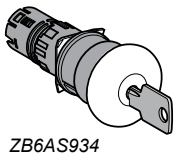
ZB6CA•



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**

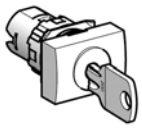
Heads for Non-Illuminated Selector Switches *(3)* *(5)* (To combine with complete bodies and contact blocks, see page 18)

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**

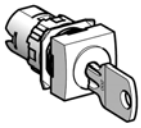
(3) For bodies with 2 contact blocks, maximum.
(4) Switching angle: maintained positions 90°.
(5) See selector switch sequence charts on page 17.
For Legends, see pages 22 and 24.

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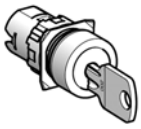
Harmony™ XB6/ZB6
16 mm push buttons
Keyed selector switches



ZB6DG•



ZB6CG•



ZB6AG•

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	**ZB6DGK**	**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**

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	x O	1 N.O. and 1 N.C.

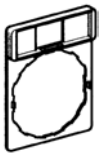
3 Position Selector Switch

			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.

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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**



ZB6Y2178



ZB6Y2304

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

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**

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Harmony™ XB6/ZB6
16 mm push buttons
Accessories


ZB6YD•10


ZB6YC•10


ZB6YA•10



ZB6YD•17


ZB6YD•19


ZB6YC•19


ZB6YA•19

Push Button Caps—Marked

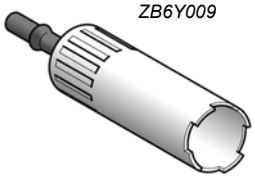
Ink Marking Color: White on colored cap Black on white cap	Color	Rectangular Reference	Square Reference	Round Reference
For non-illuminated push buttons				
0	White	**ZB6YD100**	**ZB6YC100**	**ZB6YA100**
	Black	**ZB6YD200**	**ZB6YC200**	**ZB6YA200**
1	White	**ZB6YD101**	**ZB6YC101**	**ZB6YA101**
	Black	**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**

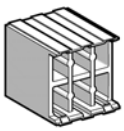
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Harmony™ XB6/ZB6
16 mm push buttons
Accessories


ZB6Y009

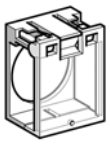

ZB6Y002

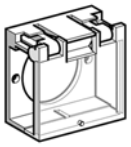

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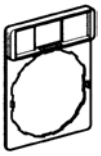

ZB6Y001


ZB6Y005


ZB6Y007


ZB6YA001


ZB6YD001


ZB6YD20



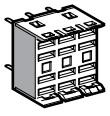
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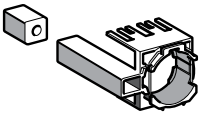


ZB6Y2304



ZB6Y7330


ZB6Y010



ZB6Y011

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**

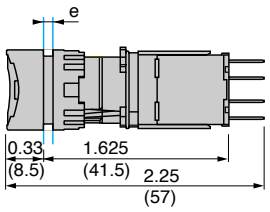
Product range: page 5 | Specifications: page 10 | Assembled products: page 12 | Dimensions: page 25

Schneider Electric
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Push buttons (illuminated and non illuminated)

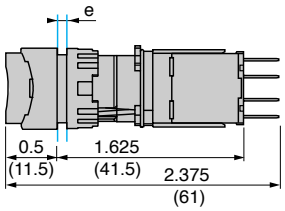
Rectangular head

XB6DW●●●●, DF●●●●, DA●●

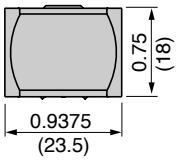


e: panel thickness
1 to 6 mm

XB6DE●●●●

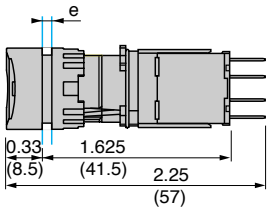


Common face view



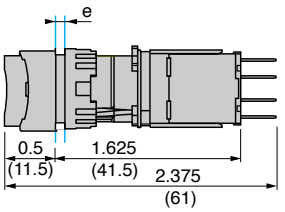
Square head

XB6CW●●●●, CF●●●●, CA●●

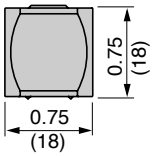


e: panel thickness
1 to 6 mm

XB6CE●●●●

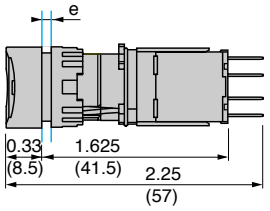


Common face view



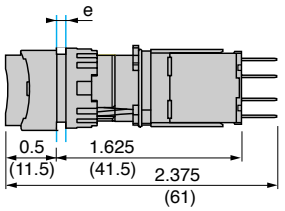
Circular head

XB6AW●●●●, AF●●●●, AA●●

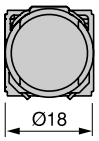


e: panel thickness
1 to 6 mm

XB6AE●●●●

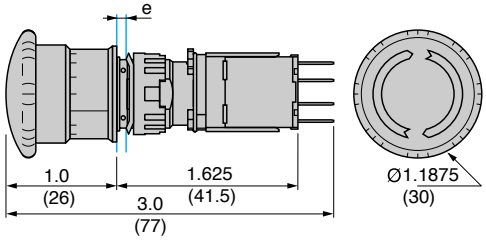


Common face view

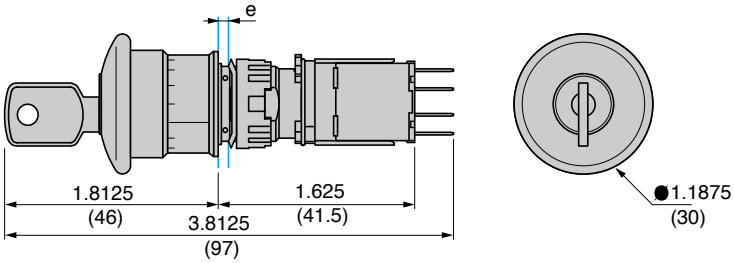


Mushroom head push buttons

XB6AS8349B



XB6AS9349B

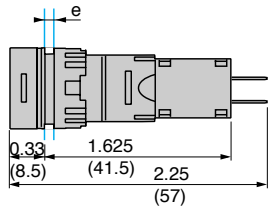


e: panel thickness 1 to 6 mm

Pilot lights

Common side view

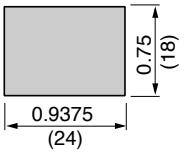
XB6DV●●●, XB6CV●●●



e: panel thickness
1 to 6 mm

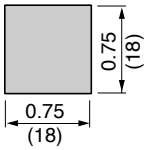
Rectangular head

XB6DV●●●



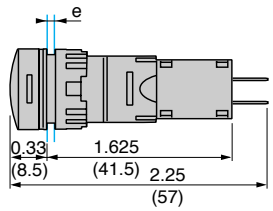
Square head

XB6CV●●●

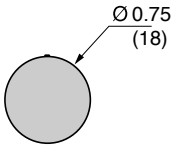


Circular head

XB6AV●●●



e: panel thickness
1 to 6 mm



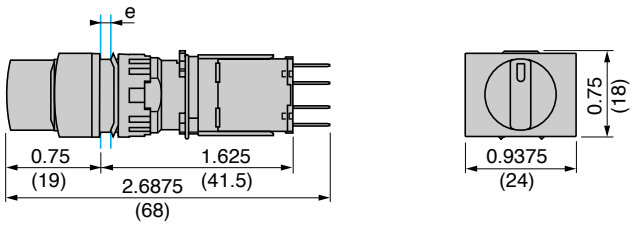
Dual Dimensions: in (mm)

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Selector switches, standard handle (illuminated and non illuminated)

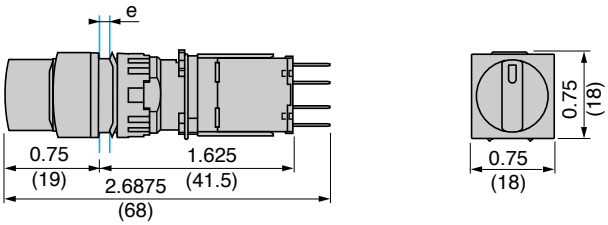
Rectangular head

XB6DD●●●●,



Square head

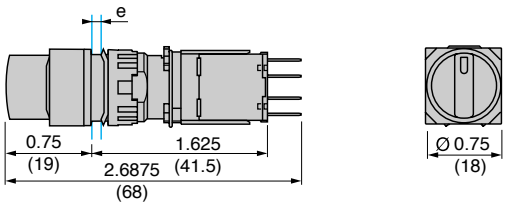
XB6CD●●●●,



e: panel thickness 1 to 6 mm

Circular head

XB6AD●●●●

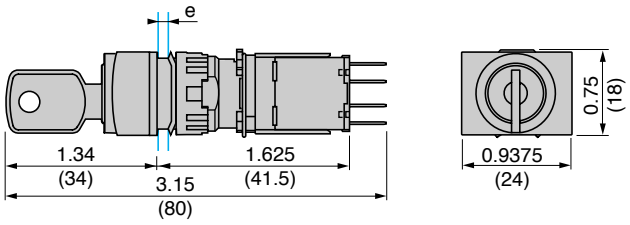


e: panel thickness 1 to 6 mm

Key switches

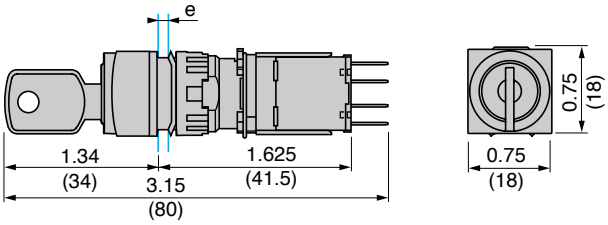
Rectangular head

XB6DG●●●



Square head

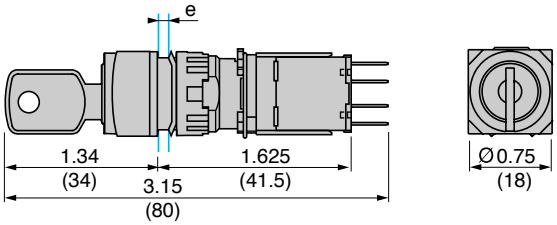
XB6CG●●●



e: panel thickness 1 to 6 mm

Circular head

XB6AG●●●



e: panel thickness 1 to 6 mm

Dual Dimensions: in (mm)

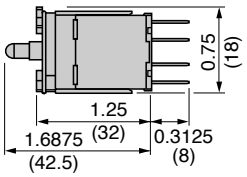
Schneider Electric

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Push buttons

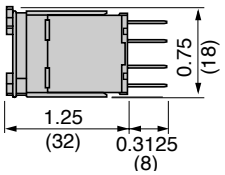
Bodies for illuminated push buttons

ZB6Z●●●B



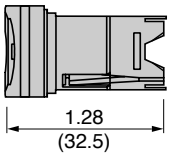
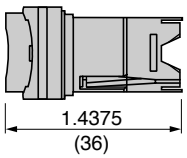
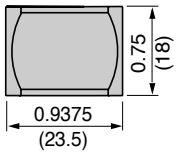
Bodies for non illuminated push buttons

ZB6Z●B

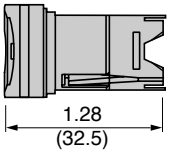
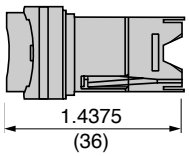
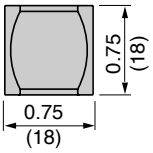


Heads for illuminated and non illuminated push buttons

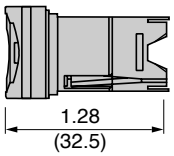
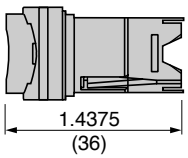
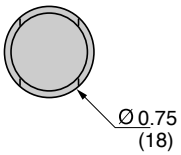
Rectangular

ZB6DW●, DF●, DA●	ZB6DE●	Common face view
		

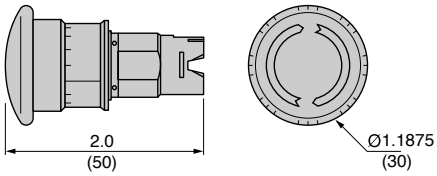
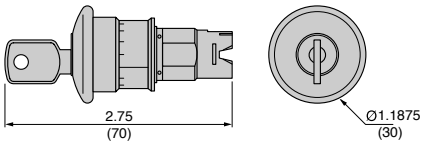
Square

ZB6CW●, CF●, CA●	ZB6CE●	Common face view
		

Circular

ZB6AW●, AF●, AA●	ZB6AE●	Common face view
		

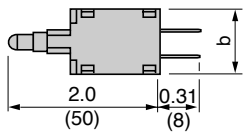
Heads for mushroom head push buttons

Trigger action	Trigger action
ZB6AS834	**ZB6AS934**
	

Pilot lights

Bodies

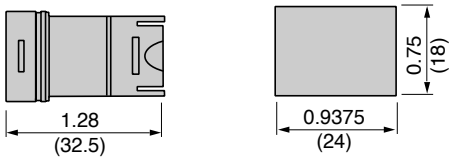
ZB6EB●●



	b
ZB6E●●B	13.5
ZB6EB●A	15.5

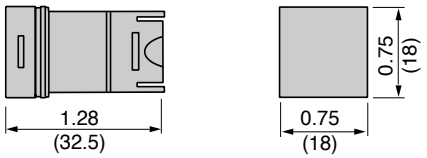
Rectangular head

ZB6DV●



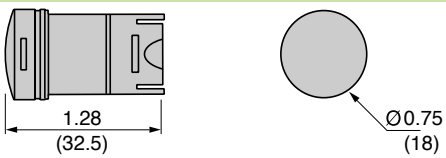
Square head

ZB6CV●



Circular head

ZB6AV●



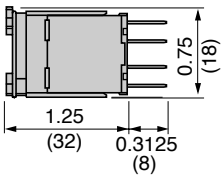
Dual Dimensions: in (mm)

Product range: page 5 | Specifications: page 10 | Assembled products: page 12 | References: page 15

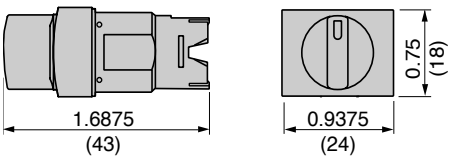
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Selector switches, standard handle (illuminated and non illuminated)

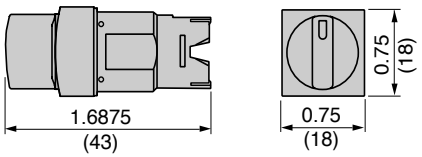
Bodies
ZB6Z●B



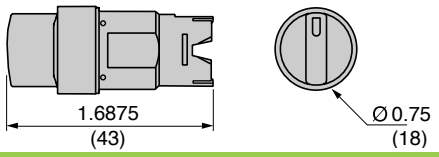
Rectangular head
ZB6DD●●



Square head
ZB6CD●●

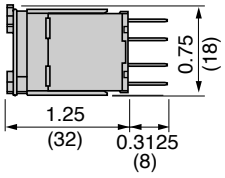


Circular head
ZB6AD●●

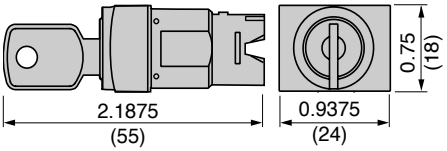


Key switches

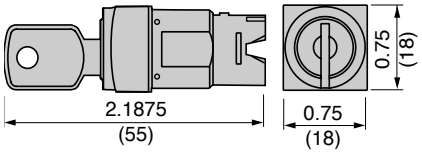
Bodies
ZB6Z●B



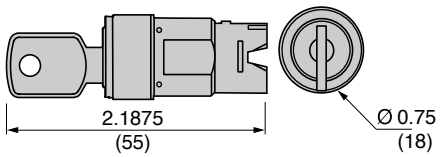
Rectangular head
ZB6DG●



Square head
ZB6CG●

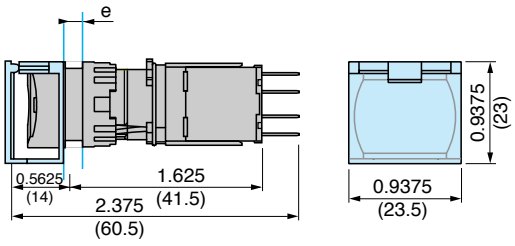


Circular head
ZB6AG●

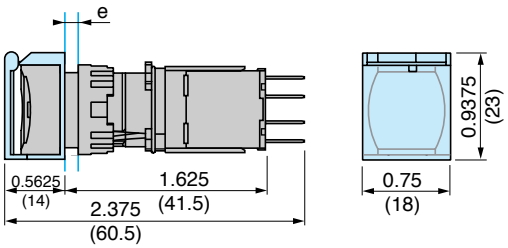


Protective shutter

For rectangular head
ZB6YD001



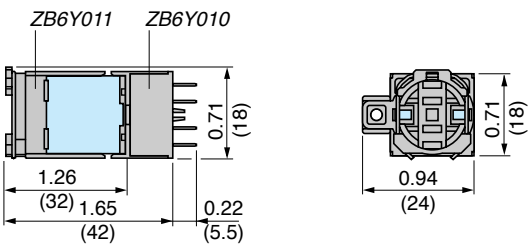
For square or circular head
ZB6YA001



e: panel thickness 1 to 6 mm

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

ZB6Y010 + ZB6Y011



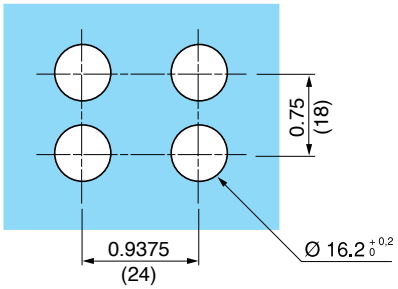
Dual Dimensions: in (mm)

Product range: page 5
Specifications: page 10
Assembled products: page 12
References: page 15

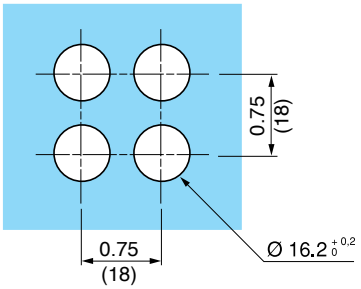
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Panel cut-out and mounting

Rectangular head



Square or circular head

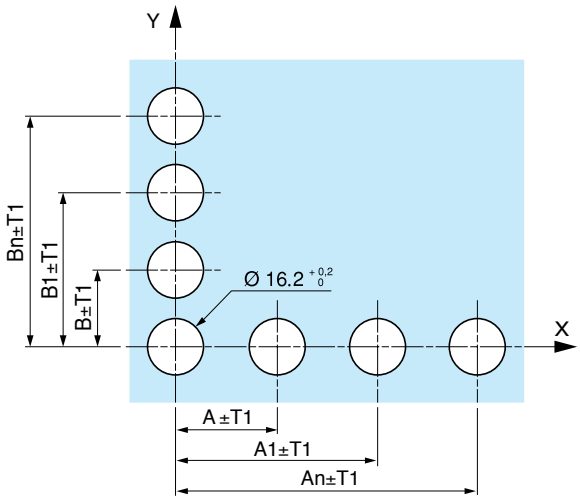


Dual Dimensions: in (mm)

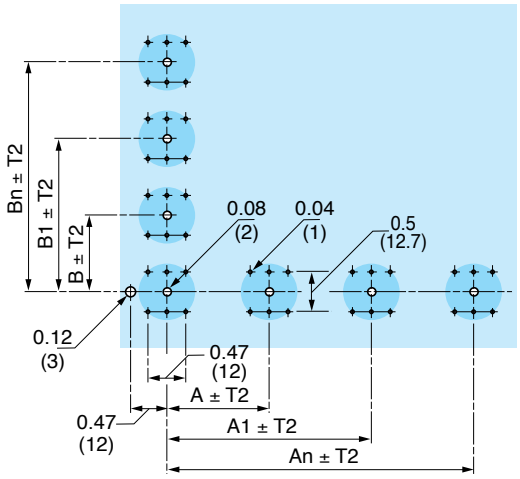
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Push buttons, switches and pilot lights for printed circuit board connection

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

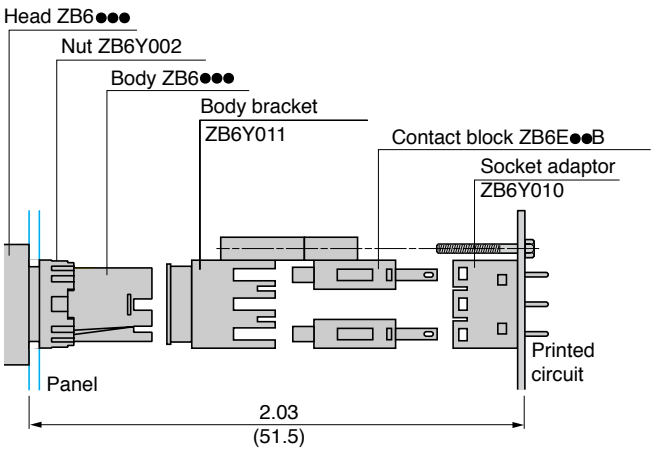


Printed circuit board drillings (viewed from electrical block side) *(1)*

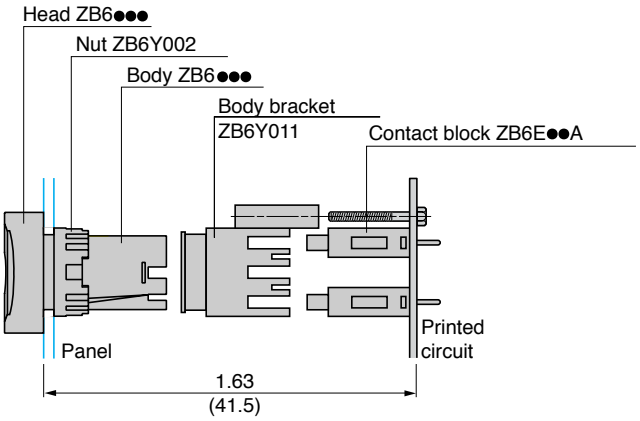


Mounting with body bracket

With socket adaptor ZB6Y010



Direct mounting without socket adaptor ZB6Y010



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 $^{0}_{-0.2}$ hole for locating pin, only when using socket adaptor ZB6Y010.

3 1 x Ø 3.2 $^{0}_{-0.2}$ 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 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.

Dual Dimensions: in (mm)

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Harmony™ XB6/ZB6
16 mm push buttons

XB6

XB6AA11B 13, 16
XB6AA15B 13, 16
XB6AA21B 16
XB6AA22B 16
XB6AA25B 13, 16
XB6AA31B 13, 16
XB6AA35B 13, 16
XB6AA42B 16
XB6AA45B 13, 16
XB6AA51B 16
XB6AA55B 16
XB6AA61B 16
XB6AA65B 16
XB6AD221B 14, 17
XB6AD225B 14, 17
XB6AD233B 17
XB6AD235B 14, 17
XB6AE1B1B 15
XB6AE1B5B 15
XB6AE3B1B 15
XB6AE3B5B 15
XB6AE4B2B 15
XB6AE4B5B 15
XB6AE5B1B 15
XB6AE5B5B 15
XB6AE6B1B 15
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XB6AF5B5B 15
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XB6AF6B5B 15
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XB6AGH5B 14, 17
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ZB6

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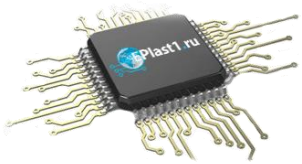
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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