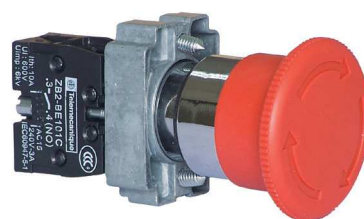


Control and signaling Harmony XB2

Ø 22 mm, metal pushbuttons, switches

Catalog



XB2B

Metal pushbutton

Ø22 mm

Characteristics

Environment

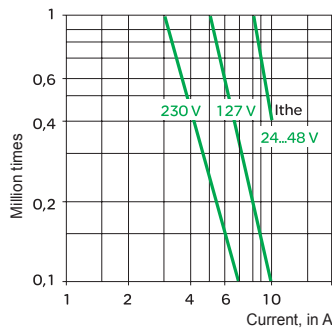
Conforming to standards	IEC 60947-5-1, EN 60 947-5-1, GB/T 14048.1-93, GB/14048.5-93
Protection	Standard version: "TC" and "TH"
Ambient temperature	Operating temperature: - 25 ~ +70°C, Storage temperature: - 40 ~ +70°C
Vibration resistance	Mushroom head pushbutton: 8 g, other pushbuttons and indicator lights: 15 g (40 Hz <frequency <500 Hz), Conforming to IEC 68-2-6
Impact resistance	pushbutton: 70g, mushroom head pushbutton: 15g, selector switch: 200g, conforming to IEC 68-2-27
Electronic shock protection	Class I, conforming to IEC 536 and NF C 20-030
Degree of protection	IP65: Flat head, with/without indicator light, pushbutton (installed)
Conforming to IEC 529 and NF C 20-010	IP66: pushbutton with cover
Mechanical life	Pushbutton: 300,000 cycles, "emergency stop" pushbuttons 300,000 cycles

Contact characteristics

Rated operating characteristics	~ AC-15 : A600 or Ue = 240 V and Ie = 3 A ≡ DC-13: Q600 or Ue = 250 V and Ie = 0.27 A, conforming to Appendix A, IEC 947-5-1.
Rated insulation voltage	Ui = 600 V, pollution degree 3, conforming to IEC 60947-1, Ui = 600 V
Rated impulse voltage	Uimp = 6 kV, conforming to IEC 947-1
Contact action	Slow breaking (NC or NO), NC contact for quick breaking
Reliability	Safety device (mushroom head "emergency stop" pushbutton): NC contact is subject to reliable breaking, and conforming to IEC 60947-5-1 part 3
Operating pressure	Flat head pushbutton - with 1 NO contact: 1 daN - with 1 NC contact: 0.8 daN Auxiliary contact - NO: + 0.5 daN - NC: + 0.3 daN
Terminal type	Conforming to CENELEC EN 50013
Short circuit protection	10 A fuse type gI, conforming to IEC 269-1, VDE 0660-200
Rated operating power	Conforming to Appendix C, IEC 60947-5-1. Application range AC-15 and DC-13. Operating frequency: 3,600 cycles/hour. Load factor: 0.5

AC ~ 50-60 Hz

∞ Inductive circuit



DC≡

breaking power W

1,000,000 cycles

	V	24	48	120
	W	65	48	40

Reliability	Failure rate <1 in 100,000,000 cycles, (programmable controller input, 24 V d.c.)
Connection	Screw clamp terminal connections, connection capability: Minimum 1 x 0.5 mm ² , maximum, with/without terminal strips: 2 x 1.5 mm ² or 1 x 2.5 mm ² - 6.3 mm Faston terminal (as required)

XB2B Buzzer Ø22 mm

Buzzer characteristics

Sound type	Continuous
Sound size	100 dB / 10 cm
Electrical life	20,000 hours
Rated current	Up to 25 mA
Voltage fluctuation	+/- 10% supply voltage Impact voltage: 4 kV (line to ground), 2 kV (line to line)

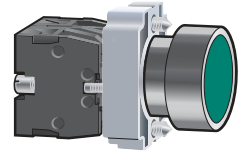
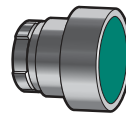
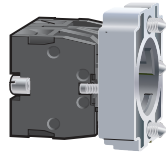
Reference
Description

XB2B
Metal pushbutton
Ø22 mm

Reference
Description

Module reference
ZB2B...C

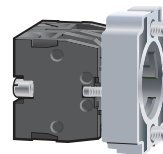
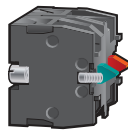
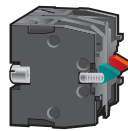
Complete reference
XB2B...C



Contact block

Pushbutton head

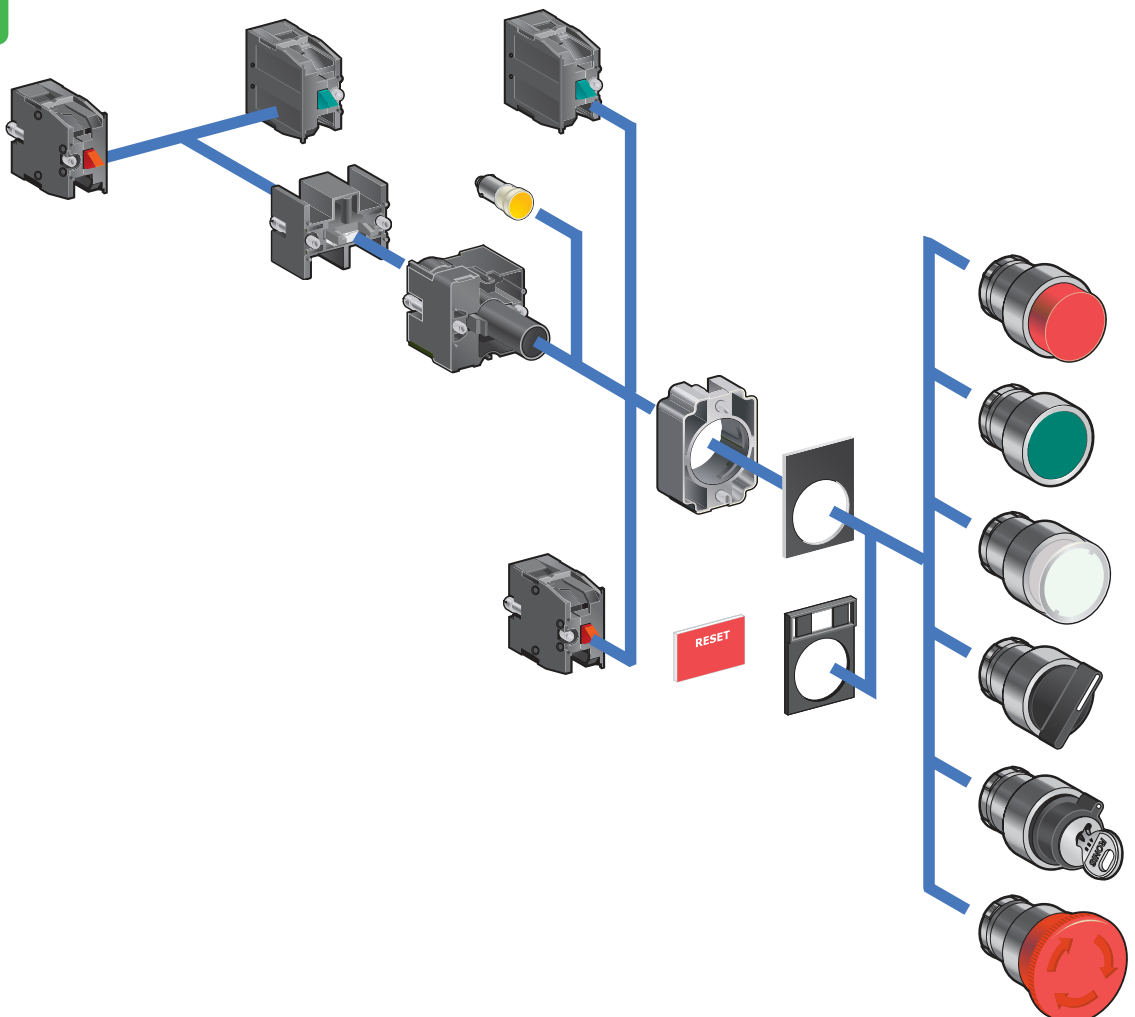
Pushbutton



Auxiliary contact connection: up to 6 contact modules


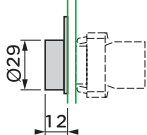

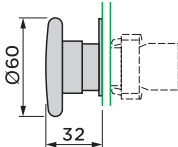
Product shipping:
XB2B series products are available in split module, module reference ZB2B...C.

Components and
accessories



Pushbutton head


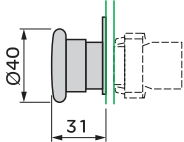

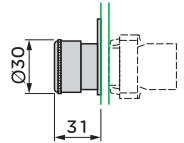
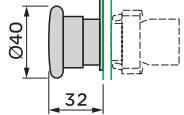
Spring return pushbutton head

	Description	Color	Reference	Weight (kg)	Dimension
 ZB2BA•C	Flat pushbutton head	○	ZB2BA1C	0.030	
		●	ZB2BA2C	0.030	
		●	ZB2BA3C	0.030	
		●	ZB2BA4C	0.030	
		●	ZB2BA5C	0.030	
		●	ZB2BA6C	0.030	
 ZB2BR•C	Mushroom pushbutton head Ø60 mm	●	ZB2BR4C	0.055	

XB2B Metal pushbutton Ø22 mm



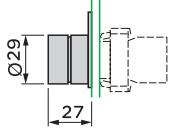




Pushbutton head

Emergency stop pushbutton head

	Description		Color	Reference	Weight (kg)	Dimension	
	Mushroom pushbutton head	Ø40 mm	●	ZB2BT4C	0.075		
	Turn to release						
ZB2BT•C							
	Mushroom pushbutton head	Ø30 mm	●	ZB2BS44C	0.045		
		Ø40 mm	●	ZB2BS54C	0.055		
	Turn to release	Ø60 mm	●	ZB2BS64C	0.065		
ZB2BS••C							



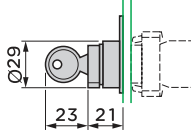





Selector switch head

Selector switch head with standard handle

	Description	Position	Reference	Weight (kg)	Dimension
 ZB2BD•C	2-position		ZB2BD2C	0.045	
			ZB2BD4C	0.045	
	3-position		ZB2BD3C	0.045	
			ZB2BD5C	0.045	
			ZB2BD7C	0.045	

Key switch head

Key switch head

	Description	Position	Reference	Weight (kg)	Dimension
 ZB2BG•C	2-position		ZB2BG2C	0.070	
			ZB2BG4C	0.070	
			ZB2BG6C	0.070	
	3-position		ZB2BG3C	0.070	
			ZB2BG5C	0.070	
			ZB2BG0C	0.070	

Marking instructions:  Latching  Spring return  Key extraction

Illuminated pushbutton head

Spring return



ZB2BW3•C

Description	Color	Reference	Weight (kg)	Dimension
Flat illuminated pushbutton head	○	ZB2BW31C	0.030	
	●	ZB2BW33C	0.030	
	●	ZB2BW34C	0.030	
	●	ZB2BW35C	0.030	
	●	ZB2BW36C	0.030	

Illuminated pushbutton body

Illuminated pushbutton body




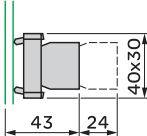
ZB2BW•••C

Description	Color	Contact Type		Reference	Weight (kg)	Dimension
		NO	NC			
AC/DC 24V With 24V integral LED	○	1		ZB2BWB11C	0.090	
	●	1		ZB2BWB31C	0.090	
	●	1		ZB2BWB41C	0.090	
	●	1		ZB2BWB51C	0.090	
	●	1		ZB2BWB61C	0.090	
AC 220V/50Hz With 24V integral LED	○	1		ZB2BWM11C	0.090	
	●	1		ZB2BWM31C	0.090	
	●	1		ZB2BWM41C	0.090	
	●	1		ZB2BWM51C	0.090	
	●	1		ZB2BWM61C	0.090	

XB2B Metal pushbutton Ø22 mm


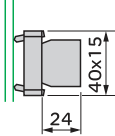
Contact block

Body assemblies with contact block

Description	Color	Contact		Reference	Weight (kg)	Dimension
		NO	NC			
 Body assemblies with contact block, used for Various custom design applications		1		ZB2BZ101C	0.040	
			1	ZB2BZ102C	0.040	
		2		ZB2BZ103C	0.055	
			2	ZB2BZ104C	0.055	
		1	1	ZB2BZ105C	0.055	


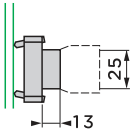
ZB2BZ10•C

Contact Block

Description	Color	Contact		Reference	Weight (kg)	Dimension
		NO	NC			
 Auxiliary/replaceable contact, screw clamp terminal connections		1		ZB2BE101C	0.015	
			1	ZB2BE102C	0.015	



ZB2BE10•C

Push and push mechanism

Description	Reference	Weight (kg)	Dimension
 For pushbuttons (except "emergency stop pushbutton", Selector switch and key switch), and illuminated Pushbutton, mounted on the front of the contact block, to realize push-fixed-push-release	ZB2BZ21C	0.015	

ZB2BZ21C

Buzzer

Description	Power Voltage	Color	Reference	Weight (kg)
Non-illuminated				
 Continuous sound 100 dB / 10 cm	AC/DC 24V	Black	XB2BSBC	0.017
	AC 110V/50Hz	Black	XB2BSFC	0.017
	AC 220V/50Hz	Black	XB2BSMC	0.017
Flash type				
 Intermittent sound 100 dB / 10 cm	AC/DC 24V	Red	XB2BSB4LC	0.020
	AC 220V/50Hz	Red	XB2BSM4LC	0.020

XB2BS•4LC