

Harmony™ XB4 metal 22 mm push buttons

Push buttons, switches and pilot lights

Environment			
Protective treatment standard version			"TH" treatment
Ambient air temperature around the device	Storage	°C	- 40 to + 70
	Operation	°C	- 25 to + 70: LED and neon bulb versions - 25 to + 55: incandescent bulb version
Electric shock protection	Conforming to IEC 61140		Class I
Degree of protection	Conforming to IEC 60529		IP 66 IP 69 K (Selector switches and multiple-headed push buttons)
	Conforming to NEMA		NEMA type 4X and 13, unless otherwise stated
Resistance to high pressure washer		Pa	70 x 10 ⁵ (70 bar); distance: 0.1 m Temperature: 55 °C
Mechanical shock protection	Conforming to IEC 50102		Non-illuminated heads: IK 03 Illuminated heads: IK 05 Selector switch heads: IK 06
Conforming to standards			EN/IEC 60947-1, EN/IEC 60947-5-1, EN/IEC 60947-5-4, EN/IEC 60947-5-5, EN/IEC60204-1 and EN/ISO 13850:2006 (Emergency stop trigger action and mechanical latching push buttons, see page 36063/2), IEC60364-5-53 (Emergency switching off mechanical latching push buttons, see page 36063/3) JIS C4520, UL 508, CSA C22-2 no. 14
Product certifications	UL Listed, CSA		Standard single contacts with screw clamp and spring terminals: A600; Q600 Double contacts with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD4PA/ZD4PA: A600; R300 Special contact blocks: □ ZBE201: A300; Q300 □ ZBE202: A600; Q600 Single contacts for high power switching: □ ZBE501 and ZBE 502: A300; P300
	UL Recognized, CSA		Standard single contacts for plug-in connector: A300; R300 Standard contacts for printed circuit board: B300; R300
	BV, RINA, LROS, DNV, GL		Standard single contacts and double contacts with screw clamp or spring terminals:
Terminal referencing	Conforming to EN 50005 and EN 50013		

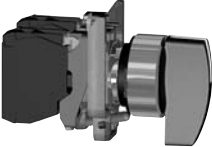





























Specifications of contact or combined contact and signaling functions (see page 24)

Mechanical specifications			
Contact operation	N/C or N/O		Slow break
Positive operation	Conforming to EN/IEC 60947-5-1 appendix K		All functions incorporating a N/C contact have positive opening operation
Operating travel (to change the electrical state)	Push button	mm	Changing N/C state: 1.5 Changing N/O state: 2.6 Total travel: 4.3
Operating force	Push button	N	Changing N/C state: 3.5 Changing N/O state: 3.8
	Additional contact only (extra to change state)	N	Single N/C contact: 2 Single N/O contact: 2.3
		N	Double N/C contact: 3.4 Double N/O contact: 5 Double contact N/C + N/O: 4.6
Emergency stop or Emergency switching off with N/C + N/O		N	Standard push-pull: 45 Trigger action push-pull: 50
		N	Standard turn to release and key release: 40 Trigger action turn to release and key release, "trigger action": 44

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Selector switches with long handle:
normal and padlockable

Assembly of other products using body/contact assemblies, see page 48; accessories, see page 62


Selector switches with long handle (1)												
Screw clamp terminal connections (Schneider Electric anti-retightening system)												
Shape of head	Type of operator	Type of contact		Positions		Reference	Weight					
		N/O	N/C	Number	Type							
Complete units												
	Long handle, black	1	-	2-position 90°	Stay put		ZB4BJ21 (ZB4BZ101 + ZB4BJ2)	0.096				
				3-position ±45°	Stay put		ZB4BJ33 (ZB4BZ103 + ZB4BJ3)	0.096				
					Spring return to center		ZB4BJ53 (ZB4BZ103 + ZB4BJ5)	0.096				
Heads only												
	Long handle, black	1	-	2-position 90°	Stay put		ZB4BJ2	0.040				
					Spring return from right to left		ZB4BJ4	0.045				
				3-position ±45°	Stay put		ZB4BJ3	0.040				
					Spring return to center		ZB4BJ5	0.040				
					Spring return from left to center		ZB4BJ7	0.040				
					Spring return from right to center		ZB4BJ8	0.040				
					Long handle, padlockable (2)	1	-	2-position 90°	Stay put		ZB4BJ291	0.048
										ZB4BJ292	0.048	
	ZB4BJ294	0.048										
Spring return from right to left		ZB4BJ491	0.054									
3-position ±45°	Stay put		ZB4BJ391					0.048				
		ZB4BJ392	0.048									
		ZB4BJ393	0.048									
		ZB4BJ394	0.048									
		ZB4BJ395	0.048									
		ZB4BJ396	0.048									
		ZB4BJ397	0.048									
	Spring return to center		ZB4BJ593					0.048				
Spring return from right to center		ZB4BJ891	0.048									
		ZB4BJ893	0.048									
Spring return from left to center		ZB4BJ895	0.048									
		ZB4BJ792	0.048									
	ZB4BJ793	0.048										
	ZB4BJ796	0.048										

Heads with black metal bezel

To order, add a figure 7 to the references selected from above.

Example: **ZB4BJ2** becomes **ZB4BJ27**.

(1) Recommended maximum number of contacts and sequence of contacts constituting the body (mounting collar + contact) associated with the head, see page 24.

(2) The symbol  indicates the padlocking positions.

Note: For contact block and mounting collar ordering information, see pages 48, 50, 51 and 52.