

# 22 mm Selector Switches, XB4 and XB5

New Products, December 2006

Catalog  
9001CT0601

# 06



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**Table 1.1: Non-Illuminated Selector Switches ■**



ZB4BD4  
Standard Lever



ZB4BJ3  
Extended Lever

Color	Number and Type of Positions			
			Standard Lever ▲	Extended Lever
Catalog Number				
Black	2-maintained		ZB4BD2	ZB4BJ2
Black	2-momentary from right to left		ZB4BD4	ZB4BJ4
Black	3-maintained		ZB4BD3	ZB4BJ3
Black	3-momentary to center		ZB4BD5	ZB4BJ5
Black	3-momentary from left to center		ZB4BD7	ZB4BJ7
Black	3-momentary from right to center		ZB4BD8	ZB4BJ8

▲ For colored lever, add the following code to the end of part number: 01–white, 03–green, 04–red, 05–yellow, 06–blue (Example: ZB4BD204).

**Table 1.2: Non-Illuminated Key Switches ■**



ZB4BG8



Key (No. 455) ◆

**Note:** The symbol indicates the key withdrawal position(s).

Shape of Head	Type of Operator	Number and Type of Positions		Catalog Number
		2-maintained		ZB4BG2
				ZB4BG4
		2-momentary from right to left		ZB4BG6
				ZB4BG0
		3-maintained		ZB4BG3
				ZB4BG03
				ZB4BG5
				ZB4BG9
				ZB4BG09
				ZB4BG1
		3-momentary from left to center		ZB4BG7
		3-momentary to center		ZB4BG8
		3-momentary from right to center		ZB4BG08
				ZB4BG08

■ See Table 1.3 for contact configurations.

◆ Other key numbers: —key no. 421E: add the suffix 12 to the catalog number. —key no. 520E: add the suffix 14 to the catalog number.  
—key no. 458A: add the suffix 10 to the catalog number. —key no. 3131A: add the suffix 20 to the catalog number.

Example: The catalog number for a head with key no. 421E for a 2 position maintained, lockable selector switch, with key withdrawal from the left-hand position, becomes: ZB4BG212.

**Table 1.3: Sequence of Contacts on Selector Switch Bodies**

Unit Type	Selector Switches															
	2-position						3-position									
	315°			45°			315°			0°			45°			
Operator Plunger Position	Up															
	Down															
Contact Block Location	L	C	R	L	C	R	L	C	R	L	C	R	L	C	R	
Contacts	N/O	O	O	O	X	X	X	X	X	O	O	O	O	O	X	X
	N/C	X	X	X	O	O	O	O	O	X	X	X	X	X	O	O

Note: L=Left, C=Center, R=Right, O=Open, X=Closed

Legends ..... Digest 174 pages 19-29 to 19-31

**When ordering, please specify:**

- Quantity
- Catalog Number

**Table 1.4: Two Button with Clear Pilot Light, Momentary (IP40) ▲**

Shape of Head	Description	Color of Pushers	Catalog Number
<b>Only use with Protected LED® light modules (Protected LED determines pilot light color)</b>			
	1 flush 1 central pilot light 1 flush	Black Red	ZB4BW812743
		Green Red	ZB4BW813743
		White Black	ZB4BW811723
	1 flush 1 central pilot light 1 extended	Black Red	ZB4BW832743
		Green Red	ZB4BW833743
		White Black	ZB4BW831723
<b>Only use with Protected LED light modules (Protected LED determines pilot light color)—premarked</b>			
	1 flush (marked "I") 1 central pilot light 1 flush (marked "O")	Black Red	ZB4BW822743
		Green Red	ZB4BW823743
		White Black	ZB4BW821723
	1 flush (marked "I") 1 central pilot light 1 extended (marked "O")	Black Red	ZB4BW842743
		Green Red	ZB4BW843743
		White Black	ZB4BW841723

▲ For IP66 degree of protection, install clear sealing boot ZBW008, see Digest 174 page 19-33.

**Table 1.5: Illuminated Selector Switches, Standard Lever**

Shape of Head	Number and Type of Positions	Catalog Number ■
<b>Only use with Protected LED light modules</b>		
	2-maintained	ZB4BK12*3
	2-momentary from right to left	ZB4BK14*3
	3-maintained	ZB4BK13*3
	3-momentary to center	ZB4BK15*3
	3-momentary from right to center	ZB4BK18*3
	3-momentary from left to center	ZB4BK17*3

■ Designate color as follows: 1—white, 3—green, 4—red, 5—yellow, 6—blue.

**Table 1.6: Sequence of Contacts on Illuminated Selector Switch Bodies**

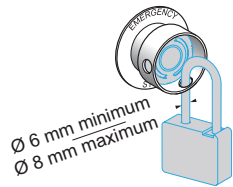
Unit Type	Selector Switches										
	2-position				3-position						
	315°		45°		315°		0°		45°		
Operator Plunger Position	Up										
	Down										
Contact Block Location	L	R	L	R	L	R	L	R	L	R	
Contacts	N/O	O	O	X	X	X	O	O	O	O	X
	N/C	X	X	O	O	O	X	X	X	X	O

Note: L=Left, R=Right, O=Open, X=Closed

Legends ..... Digest 174 pages 19-29 to 19-31

**When ordering, please specify:**

- Quantity
- Catalog Number

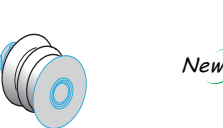
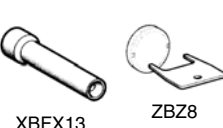
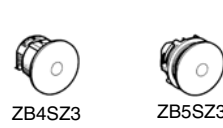
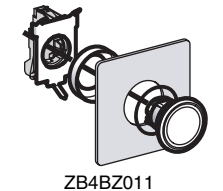
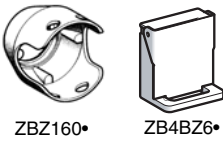


ZBZ3605

**Table 1.7: Accessories**

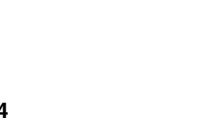
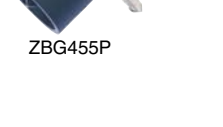
Description	Application	Color	Catalog Number
Padlocking kit Conforming to EN 418/ISO 13850 ♦ (See legends below)	For Emergency Stop function only, with the following Ø 40 trigger-action push buttons: XB4BT8♦ XB4BS8♦ XB4BS9♦ ZB4BT8♦ ZB4BS8♦ ZB4BS9♦	Yellow	ZBZ3605
Metal guards Padlockable	For Emergency Stop function only with the following Ø 40 mm trigger-action push buttons: XB4BT8♦ XB4BS8♦ XB4BS9♦ ZB4BT8♦ ZB4BS8♦ ZB4BS9♦	Chromium Plated	ZBZ1600
		Black	ZBZ1602
		Red	ZBZ1604
		Yellow	ZBZ1605
		Blue	ZBZ1606
Plastic guards ■	Round Guard for ZB4BS5430 EMO Mushroom Operators	Yellow	ZB4BZ1905
	Narrow Flange Guard for ZB4BS5430 or ZB4BS84430 EMO Mushroom Operators	Yellow	ZB4BZ2005
Padlockable flaps	Trigger Action Guard for ZB4BS84430 EMO Mushroom Operators	Yellow	ZB4BZ2105
		Black	ZB4BZ62
Mounting kit	For push buttons	Red	ZB4BZ64
		Black	ZB4BZ62
Mounting kit	For push buttons ZB4B♦ with flush mounting bezel head For 30 mm mounting hole. Minimum quantity 10		ZB4BZ011
Metal blanking plug, round chromium plated ▲	For Ø 22 mm control and signalling units		ZB4SZ3
Plastic blanking plug, round black with mounting nut	For Ø 22 mm control and signalling units		ZB5SZ3
Description	Marking	Color	Catalog Number
		Without	Yellow
Ø 60 mm Legend for padlocking device ZBZ3605	EMERGENCY STOP	Yellow	ZBY9330T

- ▲ Requires a ZB4BZ009 body/mounting collar for mounting, see Digest 174 page 19-28.
- For additional information, refer to publication 0106HO9802.
- ♦ Standard circular legends are not compatible with this product. Use special legends ZBY♦•T listed above.



**Table 1.8: BA9s Bulbs and Associated Accessories**

Description	Characteristics	Catalog Number
Replacement bulbs (Type BA9s) Incandescent	6 V, 1.2 W	DL1CB006
	12 V, 2 W	DL1CE012
	24 V, 2 W	DL1CE024
	120-130 V, 2.4 W	DL1CE130
Neon bulbs	120-130 V	DL1CF110
	230-240 V	DL1CF220
Bulb extractor	—	XBFX13
Lens cap tightening tool	Illuminated push buttons with flush push	ZBZ8
Power driver bits for mounting and wiring (package of 5)	Cross headed screw (POZIDRIV type 1)	ZB4BZ905
Mounting Adapter	For mounting 22 mm push button in 30 mm KO	ZBZ41



**Table 1.9: Bellows Seals for Harsh Environments (IP 69K) \***

Description	For use with	Color & Material	Sold in Lots of	Catalog Number
Bellows Seals for harsh environments (Humidity, dust, high-pressure cleaning)	Any Harmony XB4 metal, mushroom head push button ★, Ø 40 mm or Ø 60 mm (except ZB4BR*16)	Red Silicone	2	ZBZ48
		Black EPDM	2	ZBZ28

★ Only when mounted on control stations. Use special legends ZBY♦•T.









**Table 1.10: Replacement Keys**

Description	Key Number	Catalog Number
Set of 2 keys	455	ZBG455
	421E	ZBG421E
	458A	ZBG458A
	520E	ZBG520E
	3131A	ZBG3131A
	455	ZBG455P
Set of 2 keys, One of which is supplied booted (rubber boot)	421E	ZBG421EP
	458A	ZBG458AP
	520E	ZBG520EP
	3131A	ZBG3131AP
	455	ZBG455P

When ordering, please specify:
















- Quantity
- Catalog Number

**Table 1.11: Non-Illuminated Selector Switches**

Color	Number and Type of Positions			
			Standard Level ▲	Extended Level
Catalog Number				
Black	2-maintained		ZB5AD2	ZB5AJ2
Black	2-momentary from right to left		ZB5AD4	ZB5AJ4
Black	3-maintained		ZB5AD3	ZB5AJ3
Black	3-momentary to center		ZB5AD5	ZB5AJ5
Black	3-momentary from left to center		ZB5AD7	ZB5AJ7
Black	3-momentary from right to center		ZB5AD8	ZB5AJ8

▲ For colored lever, add the following code to the end of catalog number: 01—white, 03—green, 04—red, 05—yellow, 06—blue (Example: ZB5AD204).











**Table 1.12: Non-Illuminated Key Switches**

Shape of Head	Type of Operator	Number and Type of Positions	Catalog Number ■		
		2-maintained		ZB5AG2	
				ZB5AG4	
				ZB5AG02	
		2-momentary from right to left		ZB5AG6	
			3-maintained		ZB5AG0
					ZB5AG3
				ZB5AG5	
				ZB5AG9	
				ZB5AG09	
		3-momentary from left to center		ZB5AG1	
		3-momentary to center		ZB5AG7	
		3-momentary from right to center		ZB5AG8	
	ZB5AG08				

Note: The symbol  indicates key withdrawal position(s).

- Other key numbers:
    - key no. 421E: add the suffix 12 to the catalog number.
    - key no. 458A: add the suffix 10 to the catalog number.
    - key no. 520E: add the suffix 14 to the catalog number.
    - key no. 3131A: add the suffix 20 to the catalog number.
    - key no. 8D1: add the suffix D to the catalog number.
- Example: The catalog number for a head with key no. 421E for a 2 position maintained, lockable selector switch, with key withdrawal from the left-hand position, becomes: ZB5AG212

**Table 1.13: Sequence of Contacts on Selector Switch Bodies**

Unit Type	Selector Switches															
	2-position						3-position									
	315°		45°				315°			0°			45°			
Operator Plunger Position	Up															
	Down															
Contact Block Location	L	C	R	L	C	R	L	C	R	L	C	R	L	C	R	
Contacts	N/O	O	O	O	X	X	X	X	X	O	O	O	O	O	X	X
	N/C	X	X	X	O	O	O	O	O	X	X	X	X	X	O	O

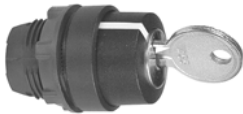
Note: L=Left, C=Center, R=Right, O=Open, X=Closed



ZB5AD•  
Standard Lever



ZB5AJX•  
Extended Lever



ZB5AG•

**Table 1.14: Two Button with Clear Pilot Light, Momentary (IP40) ▲**

Shape of Head	Description	Color of Pushers	Catalog Number
<b>Only use with Protected LED® light modules (Protected LED determines pilot light color)</b>			
	1 flush 1 central pilot light 1 flush	Black Red	ZB5AW812743
		Green Red	ZB5AW813743
		White Black	ZB5AW811723
	1 flush 1 central pilot light 1 extended	Black Red	ZB5AW832743
		Green Red	ZB5AW833743
		White Black	ZB5AW831723
<b>Only use with Protected LED light modules (Protected LED determines pilot light color)—premarked</b>			
	1 flush (marked "I") 1 central pilot light 1 flush (marked "O")	Black Red	ZB5AW822743
		Green Red	ZB5AW823743
		White Black	ZB5AW821723
	1 flush (marked "I") 1 central pilot light 1 extended (marked "O")	Black Red	ZB5AW842743
		Green Red	ZB5AW843743
		White Black	ZB5AW841723

▲ For IP66 degree of protection, install clear sealing boot ZBW008, see Digest 174 page 19-54.

**Table 1.15: Heads for Maintained Illuminated Push Buttons**

Shape of Head	Type of Push	Color	Catalog Number
<b>Only use with Protected LED light modules</b>			
	Turn-to-Release Mushroom (40 mm)	White Green Red Yellow Blue	ZB5AW713 ZB5AW733 ZB5AW743 ZB5AW753 ZB5AW763

**Table 1.16: Illuminated Selector Switches, Standard Lever**

Shape of Head	Number and Type of Positions	Catalog Number ■
<b>Only use with Protected LED light modules</b>		
	2-maintained	ZB5AK12■3
	2-momentary from right to left	ZB5AK14■3
	3-maintained	ZB5AK13■3
	3-momentary to center	ZB5AK15■3
	3-momentary from right to center	ZB5AK18■3
	3-momentary from left to center	ZB5AK17■3

■ Designate color as follows: 1—white, 3—green, 4—red, 5—yellow, 6—blue

**Table 1.17: Sequence of Contacts on Selector Switch Bodies**

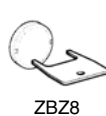
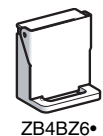
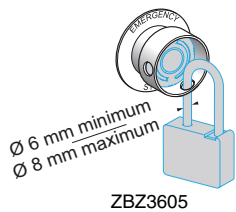
Unit Type	Selector Switches															
	2-position						3-position									
	315°			45°			315°			0°			45°			
Operator Plunger Position	Up															
	Down															
Contact Block Location	L	C	R	L	C	R	L	C	R	L	C	R	L	C	R	
Contacts	N/O	O	O	O	X	X	X	X	X	O	O	O	O	O	X	X
	N/C	X	X	X	O	O	O	O	O	X	X	X	X	X	O	O

Note: L=Left, C=Center, R=Right, O=Open, X=Closed

Legends ..... Digest 174 pages 19-50 to 19-52

**When ordering, please specify:**

- Quantity
- Catalog Number



**Table 1.18: Accessories**

Description	Application	Color	Catalog Number	
Padlocking kit Conforming to EN 418/ISO 13850 ■ (See legends below) <i>New!</i>	For Emergency Stop function only, with the following Ø40 mm trigger-action push buttons: XB4BT8• XB4BS8• XB4BS9• ZB4BT8• ZB4BS8• ZB4BS9•	Yellow	ZBZ3605	
Metal guards Padlockable	For Emergency stop function only with the following Ø40 mm trigger-action push buttons: XB5AT8• XB5AS8• XB5AS9• ZB5AT8• ZB5AS8• ZB5AS9•	Chromium Plated	ZBZ1600	
		Black	ZBZ1602	
		Red	ZBZ1604	
		Yellow	ZBZ1605	
Plastic guards	Round Guard for ZB5AS5430 EMO Mushroom Operators Narrow Flange Guard for ZB5AS5430 or ZB5AS84430 EMO Mushroom Operators Trigger Action Guard for ZB5AS84430 EMO Mushroom Operators	Blue	ZBZ1606	
		Yellow	ZB4BZ1905	
		Yellow	ZB4BZ2005	
Padlockable flaps	For push buttons	Black	ZB4BZ2105	
Plastic blanking plug, round▲	For Ø22 mm units with round heads	Red	ZB4BZ262	
Plastic blanking plug, square▲	For Ø22 mm units with square heads	Black	ZB4BZ64	
Square insert	To give square appearance to ZB5A round heads	Black	ZB5SZ3	
Mounting nut	Operator	Black	ZB5SZ5	
Tool	For tightening mounting nut ZB5AZ901	Black	ZB5AZ31	
Plate	Anti-rotation of head	—	ZB5AZ901	
<b>Description</b>	<b>Marking</b>	<b>Color</b>	<b>Catalog Number</b>	
		Without	Yellow	ZBY9101T
		EMERGENCY STOP	Yellow	ZBY9330T

- ▲ Mounting nut included with blanking plug.
- Standard circular legends are not compatible with this product. Use special legends ZBY••T listed above.

**Table 1.19: BA9s Bulbs and Associated Accessories**

Description	Characteristics	Catalog Number
Replacement bulbs (Type BA9s) Incandescent	6 V, 1.2 W	DL1CB006
	12 V, 2 W	DL1CE012
	24 V, 2 W	DL1CE024
	120–130 V, 2.4 W	DL1CE130
Neon bulbs	120–130 V	DL1CF110
	230–240 V	DL1CF220
Bulb extractor	—	XBFX13
Lens cap tightening tool	Illuminated push buttons with flush push	ZBZ8
Power driver bits for mounting and wiring (package of 5)	Cross headed screw (POZIDRIV type 1)	ZB4BZ905
Mounting Adapter	For mounting 22 mm push button in 30 mm knockout	ZBZ41

**Table 1.20: Bellows Seals for Harsh Environments (IP 69K) ♦**

Description	For use with	Color & Material	Sold in Lots of	Catalog Number
Bellows Seals for harsh environments (Humidity, dust, high-pressure cleaning)	Any Harmony XB4 metal, mushroom head push button ♦, Ø40 mm or Ø60 mm (except ZB4BR*16)	Red Silicone	2	ZBZ48
		Black EPDM	2	ZBZ28

- ♦ Only when mounted on control stations. Use special legends ZBY••T.

**Table 1.21: Replacement Keys**

Description	Key Number	Catalog Number
Set of 2 keys	455	ZBG455
	421E	ZBG421E
	458A	ZBG458A
	520E	ZBG520E
	3131A	ZBG3131A
Set of 2 keys, One of which is supplied booted (rubber boot)	455	ZBG455P
	421E	ZBG421EP
	458A	ZBG458AP
	520E	ZBG520EP
	3131A	ZBG3131AP

**When ordering, please specify:**

- Quantity
- Catalog Number

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8001 Knightdale Blvd.  
Knightdale, NC 27545  
1-888-Square D  
1-888-778-2733  
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