

# Pushbuttons, switches and pilot lights Ø 22 with metal bezel

## Contact functions



Pushbuttons, spring return									
Type of head		Chromium plated circular bezel							
Degree of protection		IP 66 / Nema 4X, 13 / Class I							
Mounting (mm)		Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended)							
Depth (mm)		30 (horizontal) x 40 (vertical)							
Connection (1)		Screw clamp terminals							
Type of push		Flush				Flush, booted			
Unmarked		Products		Complete	For user assembly		Complete	For user assembly	
References		black ● NO	<b>XB4BA21</b>	ZB4BZ101	ZB4BA2	<b>XB4BP21</b>	ZB4BZ101	ZB4BP2	
		green ● NO	<b>XB4BA31</b>	ZB4BZ101	ZB4BA3	<b>XB4BP31</b>	ZB4BZ101	ZB4BP3	
		red ● NC	<b>XB4BA42</b>	ZB4BZ102	ZB4BA4	<b>XB4BP42</b>	ZB4BZ102	ZB4BP4	
		yellow ● NO	<b>XB4BA51</b>	ZB4BZ101	ZB4BA5	<b>XB4BP51</b>	ZB4BZ101	ZB4BP5	
		blue ● NO	<b>XB4BA61</b>	ZB4BZ101	ZB4BA6	<b>XB4BP61</b>	ZB4BZ101	ZB4BP6	
Type of push		Flush							
With international marking		Products		Complete	For user assembly				
References		green ⚡ NO	<b>XB4BA3311</b>	ZB4BZ101	ZB4BA331	–	–	–	
		red ⚡ NC	<b>XB4BA4322</b>	ZB4BZ102	ZB4BA432	–	–	–	
		white ⚡ NO	<b>XB4BA3341</b>	ZB4BZ101	ZB4BA334	–	–	–	
		black ⚡ NO	<b>XB4BA3351</b>	ZB4BZ101	ZB4BA335	–	–	–	
Type of push		Projecting				Mushroom head, Ø 40 mm			
Unmarked		Products		Complete	For user assembly		Complete	For user assembly	
References		black ● NO	–	–	–	<b>XB4BC21</b>	ZB4BZ101	ZB4BC2	
		red ● NC	<b>XB4BL42</b>	ZB4BZ102	ZB4BL4	–	–	–	
Type of push		Double-headed pushbuttons				Triple-headed pushbuttons			
Degree of protection		IP 66 - IP 69K				IP 66 - IP 69K			
With international marking		Products		Complete (A)	For user assembly		Complete (B)	For user assembly	
References		(A) NO + NC	<b>XB4BL73415</b>	ZB4BZ105	ZB4BL7341	–	–	–	
		(B) NO + NC + NO	–	–	–	<b>XB4BA711237</b>	ZB4BZ103 + ZBE102	ZB4BA71123	

(1) Alternative connections: plug-in connector, Faston connectors (6.35 and 2 x 2.8).



Ø 40 mm mushroom head Emergency stop pushbuttons (2)									
Type of push		Trigger action (EN/ISO 13850)							
Unmarked		Products		Push-pull NO + NC					
References		red ● NO + NC	<b>XB4BT845</b>	ZB4BZ105	ZB4BT84				
Type of push		Turn to release NO + NC							
References		red ● NO + NC	<b>XB4BS8445</b>	ZB4BZ105	ZB4BS844				
Type of push		Key release NO + NC							
References		red ● NO + NC	<b>XB4BS9445</b>	ZB4BZ105	ZB4BS944				

(2) Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850, to Machinery Directive 2006/42/EC and to standard EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

## Contact functions



### Selector switches and key switches

Type of head	Chromium plated circular bezel	
Degree of protection	IP 66 / Nema 4X, 13 / Class I	
Mounting (mm)	panel cut-out	Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended)
	mounting centres	30 (horizontal) x 40 (vertical)
Depth (mm)	below head	43
Connection (1)	Screw clamp terminals	
Type of operator	Handle	

Products		Complete	For user assembly	Complete	For user assembly
Number and type of positions		2 positions stay put	2 positions stay put	2 positions spring return to left	2 positions spring return to left
References	black ● NO	<b>XB4BD21</b>	ZB4BZ101   ZB4BD2	<b>XB4BD41</b>	ZB4BZ101   ZB4BD4
Number and type of positions		3 positions stay put	3 positions stay put	3 positions spring return to centre	3 positions spring return to centre
References	black ● NO + NO	<b>XB4BD33</b>	ZB4BZ103   ZB4BD3	<b>XB4BD53</b>	ZB4BZ103   ZB4BD5



Products		Complete	For user assembly	Complete	For user assembly
Number and type of positions (2)		2 positions stay put	2 positions stay put	2 positions stay put	2 positions stay put
References	black ● NO	<b>XB4BG21</b>	ZB4BZ101   ZB4BG2	<b>XB4BG41</b>	ZB4BZ101   ZB4BG4
Number and type of positions		2 positions spring return to left	2 positions spring return to left	3 positions stay put	3 positions stay put
References	black ● NO	<b>XB4BG61</b>	ZB4BZ101   ZB4BG6	–	–
References	black ● NO + NO	–	–	<b>XB4BG33</b>	ZB4BZ103   ZB4BG3

# Pushbuttons, switches and pilot lights Ø 22 with metal bezel

## Light functions



Pilot lights						
Type of head		Circular bezel Smooth lens cap				
Degree of protection		IP 66 / Nema 4X, 13 / Class I				
Mounting (mm)	panel cut-out mounting centres	Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended)				
Depth	below head	30 (horizontal) x 40 (vertical)				
Connection (1)		Screw clamp terminals				
Light source		Integral LED			Direct supply for BA 9s bulb (not included)	
	<b>Products</b>	<b>Complete</b>			<b>Complete</b>	<b>For user assembly</b>
Supply voltage		24 V AC/DC	110...120 V AC	230...240 V AC	250 V max., 2.4 W max.	
References	white	<b>XB4BVB1</b>	<b>XB4BVG1</b>	<b>XB4BVM1</b>	<b>XB4BV61</b>	ZB4BV6 ZB4BV01
	green	<b>XB4BVB3</b>	<b>XB4BVG3</b>	<b>XB4BVM3</b>	<b>XB4BV63</b>	ZB4BV6 ZB4BV03
	red	<b>XB4BVB4</b>	<b>XB4BVG4</b>	<b>XB4BVM4</b>	<b>XB4BV64</b>	ZB4BV6 ZB4BV04
	yellow	<b>XB4BVB5</b>	<b>XB4BVG5</b>	<b>XB4BVM5</b>	<b>XB4BV65</b>	ZB4BV6 ZB4BV05
	blue	<b>XB4BVB6</b>	<b>XB4BVG6</b>	<b>XB4BVM6</b>	–	– –



Illuminated pushbuttons and selector switches						
Type	Flush push, spring return, illuminated pushbuttons					
Light source		Integral LED			Direct supply for BA 9s bulb (not included)	
	<b>Products</b>	<b>Complete</b>			<b>Complete</b>	<b>For user assembly</b>
Supply voltage		24 V AC/DC	110...120 V AC	230...240 V AC	250 V max., 2.4 W max.	
References	white  NO + NC	<b>XB4BW31B5</b>	<b>XB4BW31G5</b>	<b>XB4BW31M5</b>	<b>XB4BW3165</b>	ZB4BW065 ZB4BW31
	green  NO + NC	<b>XB4BW33B5</b>	<b>XB4BW33G5</b>	<b>XB4BW33M5</b>	<b>XB4BW3365</b>	ZB4BW065 ZB4BW33
	red  NO + NC	<b>XB4BW34B5</b>	<b>XB4BW34G5</b>	<b>XB4BW34M5</b>	<b>XB4BW3465</b>	ZB4BW065 ZB4BW34
	orange  NO + NC	<b>XB4BW35B5</b>	<b>XB4BW35G5</b>	<b>XB4BW35M5</b>	<b>XB4BW3565</b>	ZB4BW065 ZB4BW35
	blue  NO + NC	<b>XB4BW36B5</b>	<b>XB4BW36G5</b>	<b>XB4BW36M5</b>	–	– –



Illuminated pushbuttons and selector switches						
Type	Double-headed pushbuttons with LED pilot light (1 flush green push, 1 projecting red push)			Illuminated selector switches (2 position stay put)		
Degree of protection	IP 66 - IP 69K			IP 66		
Light source	Integral LED			Integral LED		
	<b>Products</b>	<b>Complete</b>			<b>Complete</b>	
Supply voltage		24 V AC/DC	110...120 V AC	230...240 V AC	24 V AC/DC	110...120 V AC 230...240 V AC
References	green  NO + NC	–	–	–	<b>XB4BK123B5</b>	<b>XB4BK123G5</b> <b>XB4BK123M5</b>
	red  NO + NC	–	–	–	<b>XB4BK124B5</b>	<b>XB4BK124G5</b> <b>XB4BK124M5</b>
	orange  NO + NC	–	–	–	<b>XB4BK125B5</b>	<b>XB4BK125G5</b> <b>XB4BK125M5</b>
	White  NO + NC	<b>XB4BW73731B5</b>	<b>XB4BW73731G5</b>	<b>XB4BW73731M5</b>	–	– –

(1) Alternative connections: plug-in connector, Faston connectors (6.35 and 2 x 2.8), spring clamp terminal.

## Separate components and accessories



### Electrical blocks (1) (2)

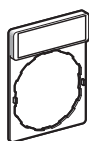
Single contact blocks			Light blocks with integral LED				Light block, direct supply
Rated operational characteristics	AC-15, 240 V - 3 A		Consumption				
Positive operation of contacts conforming to IEC/EN 60947-5-1	NC contacts with positive opening operation		18 mA	24 V AC/DC			
			14 mA	120 V AC			
References (5)*	Screw clamp terminal	Spring clamp terminal	To combine with heads for integral LED				For BA 9s bulb (not included) 250 V max., 2.4 W max.
	NC	ZBE101	ZBE1015	24 V AC/DC	110...120 V AC	230...240 V AC	
	NO	ZBE102	ZBE1025	white	ZBVB1	ZBVG1	ZBVM1
				green	ZBVB3	ZBVG3	ZBVM3
				red	ZBVB4	ZBVG4	ZBVM4
				orange	ZBVB5	ZBVG5	ZBVM5
				blue	ZBVB6	ZBVG6	ZBVM6
							Colour provided by lens



### Diecast metal enclosures

(Zinc alloy, usable depth 49 mm)

		1 vertical row				2 vertical rows		
Number of cut-outs	Front face dimensions	1	2	3	4	2	4	6
References	80 x 80 mm	XAPM1201	–	–	–	XAPM1202	–	–
	80 x 130 mm	–	XAPM2202	XAPM2203	–	–	XAPM2204	–
	80 x 175 mm	–	–	XAPM3203	XAPM3204	–	–	XAPM3206



### Accessories (2)

#### Legend holders, 30 x 40 mm, for 8 x 27 mm legends

Marking	Background colour: black or red							white or yellow		
References (10)*	Blank	ZBY2101							ZBY4101	
	International	0 (red background)	ZBY2931	I	ZBY2147	AUTO	ZBY2115	STOP	ZBY2304	–
	English	OFF	ZBY2312	ON	ZBY2311	START	ZBY2303	–	–	–
	French	ARRET (red b/grnd)	ZBY2104	ARRET-MARCHE	ZBY2166	MARCHE	ZBY2103	–	–	–
	German	AUS	ZBY2204	AUS-EIN	ZBY2266	EIN	ZBY2203	–	–	–
	Spanish	PARADA (red b/grnd)	ZBY2404	PARADA-MARCHA	ZBY2466	MARCHA	ZBY2403	–	–	–

#### Legend holders, 30 x 50 mm, for 18 x 27 mm legends

Background colour	black or red							white or yellow	
References (10)*	Blank	ZBY6101							ZBY6102

#### Ø 60 mm legend for mushroom head Emergency stop pushbutton

Background colour	yellow				
Marking	Blank	EMERGENCY STOP	ARRET D'URGENCE	NOT HALT	PARADA DE EMERGENCIA
References	ZBY9140	ZBY9330	ZBY9130	ZBY9230	ZBY9430

(1) Alternative connections: plug-in connector, Faston connectors (6.35 and 2 x 2.8), spring clamp terminal.

(2) Electrical blocks and accessories also for use with Harmony XB5plastic range

\* sold in lots of