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● Control and signalling units for explosive atmospheres (see Chapter 10 “Explosive Atmospheres”)

Perfect software interoperability (configuration, supervision, reporting...).



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(1):

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



### Illuminated pushbuttons

<b>Type of head</b>			<b>Flush push</b>				
<b>Shape of head</b>			rectangular (2)				
<b>Degree of protection</b>			IP 65 / Nema 4, 4X, 13 / Class II				
<b>Mounting (mm)</b>		panel cut-out	Ø 16.2 <sup>+0.2</sup> <sub>0</sub>				
		mounting centres	24 x 18 with rectangular head, 18 x 18 with square or circular head				
<b>Dimensions (mm)</b>		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				
<b>Connection (3)</b>			Tags for 2.8 x 0.5 Faston connectors or for soldering				
<b>Type of push</b>			<b>Spring return</b>				
			<b>Complete products</b>	<b>Products for user assembly</b>			
			12 ... 24 V AC/DC				
<b>References</b>	white	● N/O	<b>XB6 DW1B1B</b>	<b>ZB6 E●1B (1)</b>	<b>ZB6 Z1B</b>	<b>ZB6 DW1</b>	
		● N/C + N/O	<b>XB6 DW1B5B</b>	<b>ZB6 E●1B (1)</b>	<b>ZB6 Z5B</b>	<b>ZB6 DW1</b>	
	green	● N/O	<b>XB6 DW3B1B</b>	<b>ZB6 E●3B (1)</b>	<b>ZB6 Z1B</b>	<b>ZB6 DW3</b>	
		● N/C + N/O	<b>XB6 DW3B5B</b>	<b>ZB6 E●3B (1)</b>	<b>ZB6 Z5B</b>	<b>ZB6 DW3</b>	
	red	● N/C	<b>XB6 DW4B2B</b>	<b>ZB6 E●4B (1)</b>	<b>ZB6 Z2B</b>	<b>ZB6 DW4</b>	
		● N/C + N/O	<b>XB6 DW4B5B</b>	<b>ZB6 E●4B (1)</b>	<b>ZB6 Z5B</b>	<b>ZB6 DW4</b>	
	yellow	● N/O	–	<b>ZB6 E●5B (1)</b>	<b>ZB6 Z1B</b>	<b>ZB6 DW5</b>	
		● N/C + N/O	<b>XB6 DW5B5B</b>	<b>ZB6 E●5B (1)</b>	<b>ZB6 Z5B</b>	<b>ZB6 DW5</b>	
	<b>Type of push</b>			<b>Latching</b>			
	<b>References</b>	white	● N/O	–	<b>ZB6 E●1B (1)</b>	<b>ZB6 Z1B</b>	<b>ZB6 DF1</b>
● N/C + N/O			<b>XB6 DF1B5B</b>	<b>ZB6 E●1B (1)</b>	<b>ZB6 Z5B</b>	<b>ZB6 DF1</b>	
green		● N/O	<b>XB6 DF3B1B</b>	<b>ZB6 E●3B (1)</b>	<b>ZB6 Z1B</b>	<b>ZB6 DF3</b>	
		● N/C + N/O	<b>XB6 DF3B5B</b>	<b>ZB6 E●3B (1)</b>	<b>ZB6 Z5B</b>	<b>ZB6 DF3</b>	
red		● N/C	<b>XB6 DF4B2B</b>	<b>ZB6 E●4B (1)</b>	<b>ZB6 Z2B</b>	<b>ZB6 DF4</b>	
		● N/C + N/O	<b>XB6 DF4B5B</b>	<b>ZB6 E●4B (1)</b>	<b>ZB6 Z5B</b>	<b>ZB6 DF4</b>	
yellow		● N/O	–	<b>ZB6 E●5B (1)</b>	<b>ZB6 Z1B</b>	<b>ZB6 DF5</b>	
		● N/C + N/O	–	<b>ZB6 E●5B (1)</b>	<b>ZB6 Z5B</b>	<b>ZB6 DF5</b>	



<b>Type of head</b>			<b>Smooth lens cap</b>			
<b>Shape of head</b>			rectangular (2)			
			<b>Complete products</b>	<b>Products for user assembly</b>		
			12 ... 24 V AC/DC			
<b>References</b>	white	●	<b>XB6 DV1BB</b>	<b>ZB6 E●1B (1)</b>	<b>ZB6 DV1</b>	
	green	●	<b>XB6 DV3BB</b>	<b>ZB6 E●3B (1)</b>	<b>ZB6 DV3</b>	
	red	●	<b>XB6 DV4BB</b>	<b>ZB6 E●4B (1)</b>	<b>ZB6 DV4</b>	
	yellow	●	<b>XB6 DV5BB</b>	<b>ZB6 E●5B (1)</b>	<b>ZB6 DV5</b>	
	blue	●	–	<b>ZB6 E●6B (1)</b>	<b>ZB6 DV6</b>	

(1) Basic reference, to be completed by the letter B, G or M indicating the required voltage. See voltage table above.

(2) For products with a square head, replace the letter **D** in the reference by the letter **C** (XB6 DW1B1B becomes XB6 CW1B1B).










For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6 DW1B1B becomes XB6 AW1B1B).

(3) Alternative connection: 1 x 0.5 pins for printed circuit boards.

## Contact functions



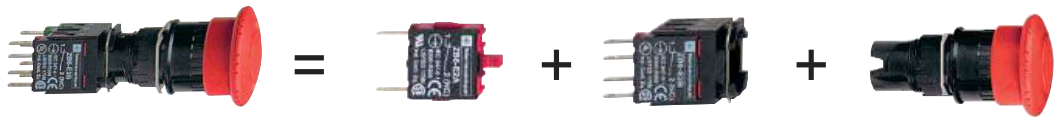
### Pushbuttons

<b>Type of head</b>	  	<b>Flush push</b>			
<b>Shape of head</b>		rectangular (1)			
<b>Degree of protection</b>		IP 65 / Nema 4, 4X, 13 / Class II			
<b>Mounting (mm)</b>	panel cut-out mounting centres	$\varnothing 16.2^{+0.2}_0$			
<b>Dimensions (mm)</b>	W x H x D (below head)	24 x 18 with rectangular head, 18 x 18 with square or circular head			
<b>Connection (2)</b>		24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head			
<b>Connection (2)</b>		Tags for 2.8 x 0.5 Faston connectors or for soldering			
<b>Type of push</b>		<b>Spring return</b>			
		<b>Complete products</b>	<b>Products for user assembly</b>		
					
<b>References</b>	white 	N/O	<b>XB6 DA11B</b>	<b>ZB6 Z1B</b>	<b>ZB6 DA1</b>
		N/C + N/O	<b>XB6 DA15B</b>	<b>ZB6 Z5B</b>	<b>ZB6 DA1</b>
	black 	N/O	–	<b>ZB6 Z1B</b>	<b>ZB6 DA2</b>
		N/C + N/O	<b>XB6 DA25B</b>	<b>ZB6 Z5B</b>	<b>ZB6 DA2</b>
	green 	N/O	<b>XB6 DA31B</b>	<b>ZB6 Z2B</b>	<b>ZB6 DA3</b>
		N/C + N/O	<b>XB6 DA35B</b>	<b>ZB6 Z5B</b>	<b>ZB6 DA3</b>
red 	N/O	–	<b>ZB6 Z1B</b>	<b>ZB6 DA4</b>	
	N/C + N/O	<b>XB6 DA45B</b>	<b>ZB6 Z5B</b>	<b>ZB6 DA4</b>	




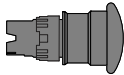


(1) For products with a square head, replace the letter **D** in the reference by the letter **C** (XB6 DA11B becomes XB6 CA11B).

For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6 DA11B becomes XB6 AA11B).

(2) Alternative connection: 1 x 0.5 pins for printed circuit boards.

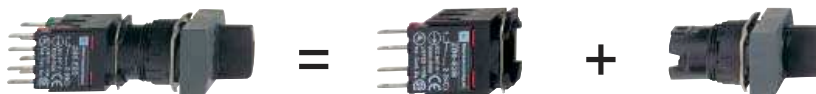


### Ø 30 mushroom head Emergency stop pushbuttons (3)

<b>Type of head</b>		<b>Trigger action (EN 418)</b>			
<b>Shape of head</b>		cylindrical			
<b>Type of push</b>		<b>Turn to release</b>			
		<b>Complete products</b>	<b>Products for user assembly</b>		
					
<b>References</b>	red 	2 N/C + 1 N/O	<b>XB6 AS8349B</b>	<b>ZB6 E2B</b>	<b>ZB6 Z5B</b>
					<b>ZB6 AS834</b>
<b>Type of push</b>		<b>Key release, Ronis 200</b>			
<b>References</b>	red 	2 N/C + 1 N/O	<b>XB6 AS9349B</b>	<b>ZB6 E2B</b>	<b>ZB6 Z5B</b>
					<b>ZB6 AS934</b>

(3) The trigger action mushroom head Emergency stop pushbuttons conform to standard IEC/EN 60947-5-5, Machinery Directive 98/37/EC and standard EN 418.

Please consult your Regional Sales Office for full details of these standards and directives.



### Selector switches and key switches

<b>Type of head</b>		<b>Black handle</b>	rectangular (2)
<b>Shape of head</b>			
<b>Degree of protection</b>			IP 66 / Nema 4, 4X, 13 / Class II
<b>Mounting (mm)</b>	panel cut-out mounting centres		Ø 16.2 <sup>+0.2</sup> <sub>0</sub>
<b>Dimensions (mm)</b>	W x H x D (below head)		24 x 18 with rectangular head, 18 x 18 with square or circular head 24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head
<b>Connection (3)</b>			Tags for 2.8 x 0.5 Faston connectors or for soldering
<b>Type of operator</b>		<b>Black handle</b>	
		<b>Complete products</b>	<b>Products for user assembly</b>
<b>Number and type of positions</b>		<b>2 positions</b> stay put	<b>2 positions</b> stay put <b>2 positions</b> spring return to centre
<b>References</b>	N/O N/C + N/O	<b>XB6 DD221B</b> XB6 DD225B	ZB6 Z1B   ZB6 DD22   ZB6 Z1B   ZB6 DD24 ZB6 Z5B   ZB6 DD22   ZB6 Z5B   ZB6 DD24
<b>Number and type of positions</b>		<b>3 positions</b> stay put	<b>3 positions</b> stay put <b>3 positions</b> spring return to centre
<b>References</b>	N/O	<b>XB6 DD235B</b>	ZB6 Z5B   ZB6 DD23   ZB6 Z5B   ZB6 DD25



<b>Type of operator</b>		<b>Ronis key, n° 200</b>	
		<b>Complete products</b>	<b>Products for user assembly</b>
<b>Number and type of positions</b>		<b>2 positions</b> stay put	<b>2 positions</b> stay put <b>2 positions</b> spring return to centre
<b>References</b>	N/C + N/O	<b>XB6 DGC5B</b>	ZB6 Z5B   ZB6 DGC   ZB6 Z5B   ZB6 DGB
<b>Number and type of positions</b>		<b>3 positions</b> stay put	<b>3 positions</b> spring return to centre
<b>References</b>	N/C + N/O	<b>XB6 DGH5B</b>	ZB6 Z5B   ZB6 DGH   ZB6 Z5B   ZB6 DGS

(1):

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



### Illuminated selector switches

<b>Type of operator</b>		<b>Coloured handle</b>	
	<b>Products for user assembly</b>		
<b>Number and type of positions</b>		<b>2 positions</b> stay put	<b>3 positions</b> stay put
<b>References</b>	white ● N/C + N/O green ● N/C + N/O red ● N/C + N/O	<b>ZB6 E●1B (1)   ZB6 Z5B</b> <b>ZB6 E●3B (1)   ZB6 Z5B</b> <b>ZB6 E●4B (1)   ZB6 Z5B</b>	<b>ZB6 DD02</b> <b>ZB6 DD02</b> <b>ZB6 DD02</b>   <b>ZB6 DD03</b>   <b>ZB6 YK1</b> <b>ZB6 DD03</b>   <b>ZB6 YK3</b> <b>ZB6 DD03</b>   <b>ZB6 YK4</b>

(1) Basic reference, to be completed by the letter B, G or M indicating the required voltage. See voltage table above.

(2) For products with a square head, replace the letter **D** in the reference by the letter **C** (XB6 DD221B becomes XB6 CD221B).

For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6 DD221B becomes XB6 AD221B).

(3) Alternative connection: 1 x 0.5 pins for printed circuit boards.

# LED pilot lights Ø 8 and 12

(1):

Voltage	Number (●)
5 V (25 mA)	1
12 V (18 mA)	2
24 V (18 mA)	3
48 V (10 mA)	4



LED pilot lights		With black bezel	With integral lens cap	
Type of head		Protruding LED, Ø 8 mm	Covered LED, Ø 8 mm	Covered LED, Ø 12 mm
Degree of protection		IP 40, IP 65 with seal (2)		
Mounting (mm)	panel cut-out	Ø 8.2 mm	Ø 8.2 mm	Ø 12.2 mm
	mounting centres	12.5 x 12.5 mm	10.5 x 10.5 mm	16.5 x 16.5 mm
Dimensions (mm)	Ø x Depth (below head)	Ø 12 x 32	Ø 10 x 34	Ø 16 x 45
Connection		Tags (3)	Tags (3)	Threaded connectors
References (1)	green ●	<b>XVL A1●3</b>	<b>XVL A2●3</b>	<b>XVL A3●3</b>
	red ●	<b>XVL A1●4</b>	<b>XVL A2●4</b>	<b>XVL A3●4</b>
	yellow ●	<b>XVL A1●5</b>	<b>XVL A2●5</b>	<b>XVL A3●5</b>
Tightening key		For Ø 8 mm pilot lights		For Ø 12 mm pilot lights
References		XVL X08		XVL X12

(1) Basic reference, to be completed by the number 1, 2, 3 or 4 indicating the required voltage. See voltage table above.

(2) For an IP 65 degree of protection, include the seals: XVL Z911 for pilot lights XVL A1●● and XVL A2●●; XVL Z912 for pilot lights XVL A3●●.

(3) Tags for 2.8 x 0.5 Faston connectors or for soldering.

## Sub-assemblies & accessories for Ø 16 plastic bezel control and signaling units



Sub-assemblies	Bodies for pushbuttons and selector switches			Bodies for pilot lights			
Rated operational characteristics, AC-15: U <sub>e</sub> = 240 V and I <sub>e</sub> = 1.5 A or U <sub>e</sub> = 120 V and I <sub>e</sub> = 3 A Positive operation of contacts conforming to IEC/EN 60947-5-1: N/C contacts with positive opening operation, positive opening force 20 N				Consumption			
				15 mA	12...24 V AC/DC		
				25 mA	48...120 V AC		
				25 mA	230...240 V AC		
	Type of contact	Fixing collar + contacts	Contacts	Pilot light bodies	12 ... 24 V	48 ... 120 V	230 ... 240 V
References	N/O	ZB6 Z1B	<b>ZB6 E1B</b>	White ●	<b>ZB6 EB1B</b>	ZB6 EG1B	<b>ZB6 EM1B</b>
	N/C	ZB6 Z2B	<b>ZB6 E2B</b>	Green ●	<b>ZB6 EB3B</b>	ZB6 EG3B	<b>ZB6 EM3B</b>
	2 N/O	<b>ZB6 Z3B</b>	–	Red ●	<b>ZB6 EB4B</b>	ZB6 EG4B	<b>ZB6 EM4B</b>
	2 N/C	ZB6 Z4B	–	Yellow ●	ZB6 EB5B	ZB6 EG5B	ZB6 EM5B
	N/O + N/C	<b>ZB6 Z5B</b>	–	Blue ●	ZB6 EB6B	ZB6 EG6B	ZB6 EM6B

### Accessories

Legend holders	24 x 28 mm (8 x 21 mm legend)			24 x 36 mm (16 x 21 mm legend)				
Blank legend	Background colour		without legend	yellow or white	black or red	without legend	yellow or white	black or red
References (10)*			<b>ZB6 YD20</b>	<b>ZB6 YD21</b>	ZB6 YD22	ZB6 YD30	ZB6 YD31	ZB6 YD32
Blank legends for legend holders	8 x 21 mm (24 x 28 mm legend holder)			16 x 21 mm (24 x 36 mm legend holder)				
	Background colour		–	yellow or white	black or red	–	yellow or white	black or red
References (20)*			–	<b>ZB6 Y1001</b>	ZB6 Y2001	–	ZB6 Y4001	ZB6 Y3001
Ø 45 mm yellow legend for mushroom head Emergency stop pushbutton								
	Marking		Blank, for engraving		EMERGENCY STOP	ARRET D'URGENCE		
References			<b>ZB6 Y7001</b>		<b>ZB6 Y7330</b>	ZB6 Y7130		
	Body/fixing collar		Plate		Tightening tool		Dismantling tool	
			anti-rotation		and slackening, for fixing nut		for removal of contact blocks	
References	ZB6 Y009 (10)*		ZB6 Y003 (10)*		ZB6 Y905 (2)*		ZB6 Y018 (5)*	
	Protective shutter for pushbuttons and switches			Connector		Blanking plug		
	for rectangular heads		for circular and square heads		Faston, female		IP 65	
References	ZB6 YD001		<b>ZB6 YA001</b>		ZB6 Y004 (100)*		ZB6 Y005 (10)*	

\* sold in lots of



### 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 ● N/O	XB4 BA21	ZB4 BZ101	ZB4 BA2	XB4 BP21	ZB4 BZ101	ZB4 BP2	
	green ● N/O	XB4 BA31	ZB4 BZ101	ZB4 BA3	XB4 BP31	ZB4 BZ101	ZB4 BP3	
	red ● N/C	XB4 BA42	ZB4 BZ102	ZB4 BA4	XB4 BP42	ZB4 BZ102	ZB4 BP4	
	yellow ● N/O	XB4 BA51	ZB4 BZ101	ZB4 BA5	XB4 BP51	ZB4 BZ101	ZB4 BP5	
	blue ● N/O	XB4 BA61	ZB4 BZ101	ZB4 BA6	XB4 BP61	ZB4 BZ101	ZB4 BP6	
Type of push		Flush			Mushroom head, Ø 40 mm			
With international marking	Products	Complete	For user assembly					
References	green ⓘ N/O	XB4 BA3311	ZB4 BZ101	ZB4 BA331	–	–	–	
	red ⓘ N/C	XB4 BA4322	ZB4 BZ102	ZB4 BA432	–	–	–	
	white ⓘ N/O	XB4 BA3341	ZB4 BZ101	ZB4 BA334	–	–	–	
	black ⓘ N/O	XB4 BA3351	ZB4 BZ101	ZB4 BA335	–	–	–	
Type of push		Projecting			Double-headed pushbuttons, booted			
Unmarked	Products	Complete	For user assembly		Complete	For user assembly		
References	black ● N/O	–	–	–	XB4 BC21	ZB4 BZ101	ZB4 BC2	
	red ● N/C	XB4 BL42	ZB4 BZ102	ZB4 BL4	–	–	–	
Type of push		Double-headed pushbuttons			Double-headed pushbuttons, booted			
Degree of protection		IP 40			IP 66			
With international marking	Products	Complete	For user assembly		Complete	For user assembly		
References	green / red ⓘ N/C + N/O	XB4 BL845	ZB4 BZ105	ZB4 BL8434	XB4 BL945	ZB4 BZ105	ZB4 BL9434	

(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		Latching			Trigger action (EN 418)		
		Push-pull (N/C)			Push-pull (N/C + N/O)		
Unmarked	Products	Complete	For user assembly		Complete	For user assembly	
References	red ● N/C or N/C + N/O	XB4 BT42	ZB4 BZ102	ZB4 BT4	XB4 BT845	ZB4 BZ105	ZB4 BT84
Type of push		Turn to release (N/C)			Turn to release (N/C + N/O)		
References	red ● N/C or N/C + N/O	XB4 BS542	ZB4 BZ102	ZB4 BS54	XB4 BS8445	ZB4 BZ105	ZB4 BS844
Type of push		Key release (N/C)			Key release (N/C + N/O)		
References	red ● N/C or N/C + N/O	XB4 BS142	ZB4 BZ102	ZB4 BS14	XB4 BS9445	ZB4 BZ105	ZB4 BS944

(2) The mushroom head Emergency stop pushbuttons conform to standard IEC/EN 60947-5-5 and Machinery Directive 98/37/EC.

Trigger action mushroom head Emergency stop pushbuttons conform to standard EN 418.

## 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 ● N/O	<b>XB4 BD21</b>	ZB4 BZ101   ZB4 BD2		<b>XB4 BD41</b>		ZB4 BZ101   ZB4 BD4	
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 ● N/O + N/O	<b>XB4 BD33</b>	ZB4 BZ103   ZB4 BD3		<b>XB4 BD53</b>		ZB4 BZ103   ZB4 BD5	



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 ● N/O	<b>XB4 BG21</b>	ZB4 BZ101   ZB4 BG2		<b>XB4 BG41</b>		ZB4 BZ101   ZB4 BG4	
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 ● N/O black ● N/O + N/O	<b>XB4 BG61</b> -	ZB4 BZ101   ZB4 BG6 -		- <b>XB4 BG33</b>		- ZB4 BZ103   ZB4 BG3	

## Separate components



### Electrical blocks

#### Single contact blocks

Rated operational characteristics	AC-15, 240 V - 3 A
Positive operation of contacts conforming to IEC/EN 60947-5-1	All functions incorporating a N/C contact are positive opening operation
References (5)*	N/O <b>ZBE 101</b>
	N/C <b>ZBE 102</b>

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


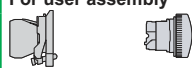





(2) The symbol indicates key withdrawal position.

\* sold in lots of

## Light functions









### Pilot lights




<b>Type of head</b>			<b>Circular bezel</b>					
<b>Degree of protection</b>			<b>Smooth lens cap</b>					
<b>Mounting (mm)</b>		panel cut-out mounting centres	IP 66 / Nema 4X, 13 / Class I					
<b>Depth</b>		below head	Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended)					
<b>Connection (1)</b>			30 (horizontal) x 40 (vertical)					
<b>Light source</b>			43					
			Screw clamp terminals		Integral LED			
			Direct supply for BA 9s bulb (not included)		Complete			
		<b>Products</b>	<b>Complete</b>		<b>For user assembly</b>			
								
<b>Supply voltage</b>			24 V AC/DC	48...120 V AC	230...240 V AC	250 V max., 2.4 W max.		
<b>References</b>		white 	<b>XB4 BVB1</b>	<b>XB4 BVG1</b>	<b>XB4 BVM1</b>	<b>XB4 BV61</b>	ZB4 BV6	ZB4 BV01
		green 	<b>XB4 BVB3</b>	<b>XB4 BVG3</b>	<b>XB4 BVM3</b>	<b>XB4 BV63</b>	ZB4 BV6	ZB4 BV03
		red 	<b>XB4 BVB4</b>	<b>XB4 BVG4</b>	<b>XB4 BVM4</b>	<b>XB4 BV64</b>	ZB4 BV6	ZB4 BV04
		yellow 	<b>XB4 BVB5</b>	<b>XB4 BVG5</b>	<b>XB4 BVM5</b>	<b>XB4 BV65</b>	ZB4 BV6	ZB4 BV05
		blue 	<b>XB4 BVB6</b>	<b>XB4 BVG6</b>	<b>XB4 BVM6</b>	–	–	–



### Illuminated pushbuttons and selector switches

<b>Type</b>		Flush push, spring return, illuminated pushbuttons						
<b>Light source</b>		Integral LED			Direct supply for BA 9s bulb (not included)			
		<b>Complete</b>			<b>Complete</b>			
					<b>For user assembly</b>			
								
<b>Supply voltage</b>		24 V AC/DC	48...120 V AC	230...240 V AC	250 V max., 2.4 W max.			
<b>References</b>		white  N/C + N/O	<b>XB4 BW31B5</b>	<b>XB4 BW31G5</b>	<b>XB4 BW31M5</b>	<b>XB4 BW3165</b>	ZB4 BW065	ZB4 BW31
		green  N/C + N/O	<b>XB4 BW33B5</b>	<b>XB4 BW33G5</b>	<b>XB4 BW33M5</b>	<b>XB4 BW3365</b>	ZB4 BW065	ZB4 BW33
		red  N/C + N/O	<b>XB4 BW34B5</b>	<b>XB4 BW34G5</b>	<b>XB4 BW34M5</b>	<b>XB4 BW3465</b>	ZB4 BW065	ZB4 BW34
		yellow  N/C + N/O	<b>XB4 BW35B5</b>	<b>XB4 BW35G5</b>	<b>XB4 BW35M5</b>	<b>XB4 BW3565</b>	ZB4 BW065	ZB4 BW35
		blue  N/C + N/O	<b>XB4 BW36B5</b>	<b>XB4 BW36G5</b>	<b>XB4 BW36M5</b>	–	–	–



<b>Type</b>		<b>Double-headed pushbuttons with LED pilot light</b> (1 flush green push, 1 projecting red push)			<b>Illuminated selector switches</b> (2 position stay put)			
<b>Degree of protection</b>		IP 40			IP 65			
<b>Light source</b>		Integral LED			Integral LED			
		<b>Complete</b>			<b>Complete</b>			
<b>Supply voltage</b>		24 V AC/DC	48...120 V AC	230...240 V AC	24 V AC/DC	48...120 V AC	230...240 V AC	
<b>References</b>		green  N/C + N/O	–	–	<b>XB4 BK123B5</b>	<b>XB4 BK123G5</b>	<b>XB4 BK123M5</b>	
		red  N/C + N/O	–	–	<b>XB4 BK124B5</b>	<b>XB4 BK124G5</b>	<b>XB4 BK124M5</b>	
		yellow  N/C + N/O	<b>XB4 BW84B5</b>	<b>XB4 BW84G5</b>	<b>XB4 BW84M5</b>	<b>XB4 BK125B5</b>	<b>XB4 BK125G5</b>	<b>XB4 BK125M5</b>

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

## Separate components and accessories

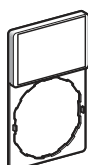
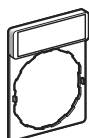


### Electrical blocks

	Single contact blocks	Light blocks with integral LED				Light block, direct supply
Rated operational characteristics	AC-15, 240 V - 3 A	Consumption				
		18 mA	24 V AC/DC			
Positive operation of contacts conforming to IEC/EN 60947-5-1	N/C contacts with positive opening operation	14 mA	120 V AC			
		14 mA	240 V AC			
		To combine with heads for integral LED				For BA 9s bulb (not included)
		24 V AC/DC	48...120 V AC	230...240 V AC		250 V max., 2.4 W max.
References (5)*	N/O <b>ZBE 101</b>	white	ZBV B1	ZBV G1	ZBV M1	ZBV 6
	N/C <b>ZBE 102</b>	green	ZBV B3	ZBV G3	ZBV M3	Colour provided by lens
		red	ZBV B4	ZBV G4	ZBV M4	
		yellow	ZBV B5	ZBV G5	ZBV M5	
		blue	ZBV B6	ZBV G6	ZBV M6	



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	XAP M1201	–	–	–	XAP M1202	–	–
	80 x 130 mm	–	XAP M2202	XAP M2203	–	–	XAP M2204	–
	80 x 175 mm	–	–	XAP M3203	XAP M3204	–	–	XAP M3206



### Accessories

Legend holders, 30 x 40 mm, for 8 x 27 mm legends								
References (10)*	Marking	Background colour: black or red						white or yellow
	Blank	ZBY 2101						ZBY 4101
	International	0 (red background) ZBY 2931	I ZBY 2147	AUTO ZBY 2115	STOP ZBY 2304	–	–	
	English	OFF ZBY 2312	ON ZBY 2311	START ZBY 2303	–	–	–	
	French	ARRET (red b/grmd) ZBY 2104	ARRET-MARCHE ZBY 2166	MARCHE ZBY 2103	–	–	–	
	German	AUS ZBY 2204	AUS-EIN ZBY 2266	EIN ZBY 2203	–	–	–	
	Spanish	PARADA (red b/grmd) ZBY 2404	PARADA-MARCHA ZBY 2466	MARCHA ZBY 2403	–	–	–	
Legend holders, 30 x 50 mm, for 18 x 27 mm legends								
References (10)*	Background colour	black or red						white or yellow
	Blank	ZBY 6101						ZBY 6102
Ø 60 mm legend for mushroom head Emergency stop pushbutton								
References (10)*	Background colour	yellow						
	Marking	Blank ZBY 9101	EMERGENCY STOP ZBY 9330	ARRET D'URGENCE ZBY 9130	NOT-AUS ZBY 9230	PARADA DE EMERGENCIA ZBY 9430	–	–

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

\* sold in lots of



### Pushbuttons, spring return

Type of head		Circular bezel					
Degree of protection		IP 66 / Nema 4X, 13 / Class II					
Mounting (mm)		panel cut-out mounting centres 30 (horizontal) x 40 (vertical)					
Depth (mm)		below head 43					
Connection (1)		Screw clamp terminals					
Type of push		Flush			Flush, booted		
Unmarked	Products	Complete	For user assembly		Complete	For user assembly	
References	black ● N/O	XB5 AA21	ZB5 AZ101	ZB5 AA2	XB5 AP21	ZB5 AZ101	ZB5 AP2
	green ● N/O	XB5 AA31	ZB5 AZ101	ZB5 AA3	XB5 AP31	ZB5 AZ101	ZB5 AP3
	red ● N/C	XB5 AA42	ZB5 AZ102	ZB5 AA4	XB5 AP42	ZB5 AZ102	ZB5 AP4
	yellow ● N/O	XB5 AA51	ZB5 AZ101	ZB5 AA5	XB5 AP51	ZB5 AZ101	ZB5 AP5
	blue ● N/O	XB5 AA61	ZB5 AZ101	ZB5 AA6	XB5 AP61	ZB5 AZ101	ZB5 AP6
Type of push		Flush					
With international marking	Products	Complete	For user assembly		Complete	For user assembly	
References	green I N/O	XB5 AA3311	ZB5 AZ101	ZB5 AA3311	–	–	–
	red I N/C	XB5 AA4322	ZB5 AZ102	ZB5 AA4322	–	–	–
	white I N/O	XB5 AA3341	ZB5 AZ101	ZB5 AA334	–	–	–
	black I N/O	XB5 AA3351	ZB5 AZ101	ZB5 AA335	–	–	–
Type of push		Projecting			Mushroom head, Ø 40 mm		
Unmarked	Products	Complete	For user assembly		Complete	For user assembly	
References	black ● N/O	–	–	–	XB5 AC21	ZB5 AZ101	ZB5 AC2
	red ● N/C	XB5 AL42	ZB5 AZ102	ZB5 AL4	–	–	–
Type of push		Double-headed pushbuttons			Double-headed pushbuttons, booted		
Degree of protection		IP 40			IP 66		
With international marking	Products	Complete	For user assembly		Complete	For user assembly	
References	green / red I N/C + N/O	XB5 AL845	ZB5 AZ105	ZB5 AL8434	XB5 AL945	ZB5 AZ105	ZB5 AL9434

(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		Latching			Trigger action (EN 418)		
Unmarked		Push-pull (N/C)			Push-pull (N/C + N/O)		
References	red ● N/C or N/C + N/O	XB5 AT42	ZB5 AZ102	ZB5 AT4	XB5 AT845	ZB5 AZ105	ZB5 AT84
Type of push		Turn to release (N/C)			Turn to release (N/C + N/O)		
References	red ● N/C or N/C + N/O	XB5 AS542	ZB5 AZ102	ZB5 AS54	ZB5 AZ105	ZB5 AZ105	ZB5 AS844
Type of push		Key release (N/C)			Key release (N/C + N/O)		
References	red ● N/C or N/C + N/O	XB5 AS142	ZB5 AZ102	ZB5 AS14	ZB5 AZ105	ZB5 AZ105	ZB5 AS944

(2) The mushroom head Emergency stop pushbuttons conform to standard IEC/EN 60947-5-5 and Machinery Directive 98/37/EC. Trigger action mushroom head Emergency stop pushbuttons conform to standard EN 418.

## Contact functions



### Selector switches and key switches

Type of head		Circular bezel			
Degree of protection		IP 66 / Nema 4X, 13 / Class II			
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 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 ● N/O	<b>XB5 AD21</b>	ZB5 AZ101   ZB5 AD2	<b>XB5 AD41</b>	ZB5 AZ101   ZB5 AD4
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 ● N/O + N/O	<b>XB5 AD33</b>	ZB5 AZ103   ZB5 AD3	<b>XB5 AD53</b>	ZB5 AZ103   ZB5 AD5
Type of operator		Key, n° 455			
Number and type of positions (2)		2 positions stay put	2 positions stay put	2 positions stay put	2 positions stay put
References	black ● N/O	<b>XB5 AG21</b>	ZB5 AZ101   ZB5 AG2	<b>XB5 AG41</b>	ZB5 AZ101   ZB5 AG4

(2) The symbol  indicates key withdrawal position.

## Separate components and accessories

### Electrical blocks

Single contact blocks			Light blocks with integral LED				Light block, direct supply	
			To combine with heads for integral LED				For BA 9s bulb (not included)	
							250 V max., 2.4 W max.	
References (5)*	N/O	ZBE 101	white ●	ZBV B1	ZBV G1	ZBV M1	ZBV6	
	N/C	ZBE 102	green ●	ZBV B3	ZBV G3	ZBV M3	Colour provided by lens	
			red ●	ZBV B4	ZBV G4	ZBV M4		
			yellow ●	ZBV B5	ZBV G5	ZBV M5		
			blue ●	ZBV B6	ZBV G6	ZBV M6		

### Accessories

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

Marking	Background colour: black or red							white or yellow		
References (10)*	Blank	ZBY 2101							ZBY 4101	
References	International	0 (red background)	ZBY 2931	I	ZBY 2147	AUTO	ZBY 2115	STOP	ZBY 2304	–
	English	OFF	ZBY 2312	ON	ZBY 2311	START	ZBY 2303	–	–	–
	French	ARRET (red b/grnd)	ZBY 2104	ARRET-MARCHE	ZBY 2166	MARCHE	ZBY 2103	–	–	–
	German	AUS	ZBY 2204	AUS-EIN	ZBY 2266	EIN	ZBY 2203	–	–	–
	Spanish	PARADA (red b/grnd)	ZBY 2404	PARADA-MARCHA	ZBY 2466	MARCHA	ZBY 2403	–	–	–

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

Background colour	black or red							white or yellow	
References (10)*	Blank	ZBY 6101							ZBY 6102

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


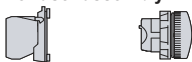





Background colour	yellow						
Marking	Blank	EMERGENCY STOP	ARRET D'URGENCE	NOT-AUS	PARADA DE EMERGENCIA		
References	ZBY 9101	ZBY 9330	ZBY 9130	ZBY 9230	ZBY 9430		
Body/fixing collar		Fixing nut		Bezel tool		Plate	
for electrical block (contact or light)		for head		for tightening fixing nut ZB5 AZ901		anti-rotation	
References	ZB5 AZ009 (10)*	ZB5 AZ901 (10)*		ZB5 AZ905		ZB5 AZ902	

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

\* sold in lots of









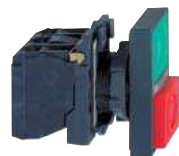
### Pilot lights




<b>Type of head</b>		<b>Circular bezel</b>						
<b>Degree of protection</b>		<b>Smooth lens cap</b>						
<b>Mounting (mm)</b>	panel cut-out	IP 66 / Nema 4X, 13 / Class II						
	mounting centres	Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended)						
<b>Depth</b>	below head	30 (horizontal) x 40 (vertical)						
<b>Connection (1)</b>		43						
<b>Light source</b>		Screw clamp terminals			Integral LED			Direct supply for BA 9s bulb (not included)
	<b>Products</b>	<b>Complete</b>			<b>Complete</b>	<b>For user assembly</b>		
								
<b>Supply voltage</b>		24 V AC/DC	48...120 V AC	230...240 V AC	250 V max., 2.4 W max.			
<b>References</b>	white 	<b>XB5 AVB1</b>	<b>XB5 AVG1</b>	<b>XB5 AVM1</b>	<b>XB5 AV61</b>	ZB5 AV6	ZB5 AV01	
	green 	<b>XB5 AVB3</b>	<b>XB5 AVG3</b>	<b>XB5 AVM3</b>	<b>XB5 AV63</b>	ZB5 AV6	ZB5 AV03	
	red 	<b>XB5 AVB4</b>	<b>XB5 AVG4</b>	<b>XB5 AVM4</b>	<b>XB5 AV64</b>	ZB5 AV6	ZB5 AV04	
	yellow 	<b>XB5 AVB5</b>	<b>XB5 AVG5</b>	<b>XB5 AVM5</b>	<b>XB5 AV65</b>	ZB5 AV6	ZB5 AV05	
	blue 	<b>XB5 AVB6</b>	<b>XB5 AVG6</b>	<b>XB5 AVM6</b>	–	–	–	



### Illuminated pushbuttons and selector switches

<b>Type</b>	Flush push, spring return, illuminated pushbuttons						
<b>Light source</b>		Integral LED			Direct supply for BA 9s bulb (not included)		
	<b>Products</b>	<b>Complete</b>			<b>Complete</b>	<b>For user assembly</b>	
							
<b>Supply voltage</b>		24 V AC/DC	48...120 V AC	230...240 V AC	250 V max., 2.4 W max.		
<b>References</b>	white  N/C + N/O	<b>XB5 AW31B5</b>	<b>XB5 AW31G5</b>	<b>XB5 AW31M5</b>	<b>XB5 AW3165</b>	ZB5 AW065	ZB5 AW31
	green  N/C + N/O	<b>XB5 AW33B5</b>	<b>XB5 AW33G5</b>	<b>XB5 AW33M5</b>	<b>XB5 AW3365</b>	ZB5 AW065	ZB5 AW33
	red  N/C + N/O	<b>XB5 AW34B5</b>	<b>XB5 AW34G5</b>	<b>XB5 AW34M5</b>	<b>XB5 AW3465</b>	ZB5 AW065	ZB5 AW34
	yellow  N/C + N/O	<b>XB5 AW35B5</b>	<b>XB5 AW35G5</b>	<b>XB5 AW35M5</b>	<b>XB5 AW3565</b>	ZB5 AW065	ZB5 AW35
	blue  N/C + N/O	<b>XB5 AW36B5</b>	<b>XB5 AW36G5</b>	<b>XB5 AW36M5</b>	–	–	–



<b>Type</b>	Double-headed pushbuttons with LED pilot light (1 flush green push, 1 projecting red push)			Illuminated selector switches (2 position stay put)			
<b>Degree of protection</b>	IP 40			IP 66			
<b>Light source</b>	Integral LED			Integral LED			
	<b>Products</b>	<b>Complete</b>			<b>Complete</b>		
<b>Supply voltage</b>		24 V AC/DC	48...120 V AC	230...240 V AC	24 V AC/DC	48...120 V AC	230...240 V AC
<b>References</b>	green  N/C + N/O	–	–	–	<b>XB5 AK123B5</b>	<b>XB5 AK123G5</b>	<b>XB5 AK123M5</b>
	red  N/C + N/O	–	–	–	<b>XB5 AK124B5</b>	<b>XB5 AK124G5</b>	<b>XB5 AK124M5</b>
	yellow  N/C + N/O	<b>XB5 AW84B5</b>	<b>XB5 AW84G5</b>	<b>XB5 AW84M5</b>	<b>XB5 AK125B5</b>	<b>XB5 AK125G5</b>	<b>XB5 AK125M5</b>

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

Separate components and accessories: see previous page.

(1):

Number of cut-outs	Number (●)
1	1
2	2
3	3
4	4
5	5



### Complete stations with 1 pushbutton, selector switch or key switch

(light grey RAL 7035 base with dark grey RAL 7016 lid)

Degree of protection			IP 65 / Nema 4X and 13 / Class II				
Dimensions (mm)			W x H x D				
Fixing (mm)			2 x Ø 4.3 on 54 mm centres				
Function			1 Start or Stop function			1 Start-Stop function	
Marking			On spring return push			On legend holder and legend below head	
Number and type of pushbutton/selector switch/key switch			1 flush green p/b	1 flush red p/b	1 projecting red p/b	1 2 position stay put selector switch or key switch	
References			N/O	I	XAL D102	–	–
				Start	XAL D103	–	–
				O - I	–	–	–
			N/C	O	–	XAL D112	XAL D115
					–	XAL D134	XAL D144
					–	–	–

2

(1) Empty enclosures:

Basic reference: XAL K0●, replace the ● by the number of cut-outs required (see cut-out table above)



Function			Emergency stop (2) (light grey RAL 7035 base with yellow RAL 1012 lid)			
Number and type of mushroom head pushbutton			1 red Ø 40 head, turn to release		1 red Ø 40 head, key release	
Latching mechanism			Trigger action (EN 418)		Latching	
References			N/C	–	XAL K174	XAL K184
			N/C + N/C	XAL K178F	XAL K174F	XAL K184F
			N/C + N/O	XAL K178E	XAL K174E	XAL K184E
			N/C + N/C + N/O	XAL K178G	XAL K174G	XAL K184G

(2) The mushroom head Emergency stop pushbuttons conform to standard IEC/EN 60947-5-5 and Machinery Directive 98/37/EC.

Trigger action mushroom head pushbuttons conform to standard EN 418.



(1) Empty enclosures:

Basic reference: XAL K0●, replace the ● by the number of cut-outs required (see cut-out table above)

### Complete stations with 2 and 3 pushbuttons or 2 pushbuttons + 1 pilot light
























(light grey RAL 7035 base with dark grey RAL 7016 lid)

Dimensions (mm)			W x H x D						
Fixing (mm)			2-way control stations: 2 x Ø 4.3 on 54 x 68 centres; 3-way control stations: 2 x Ø 4.3 on 54 x 98 centres						
Function			Start-Stop functions			2 functions		3 functions	
Marking			On spring return push						
Number and type of pushbutton/pilot light			1 flush green p/b	1 flush green pushbutton	1 flush white p/b	1 flush white p/b	1 flush white p/b	1 flush white p/b	1 flush white p/b
			1 flush red p/b	1 flush red pushbutton	1 flush black p/b	1 flush red p/b	1 flush red p/b	1 Ø 30 red mushroom head p/b	1 flush black p/b
				1 red pilot light with integral LED (1)					1 flush black p/b
References			N/O + N/C	I - O	XAL D213	24 V AC/DC	230 V AC	–	–
				Start - Stop	XAL D215	–	–	–	–
			N/O + N/O	↕	–	–	–	XAL D222	–
			N/O + N/C + N/O	↕	–	–	–	–	XAL D324
				↕	–	–	–	–	XAL D328

Accessories		Standard contact blocks			(1) Light blocks with integral LED, colour red	
Description		N/O contact	N/C contact		24 V AC/DC	230 V AC
References		ZEN L1111	ZEN L1121		ZAL VB4	ZAL VM4







#### Pushbuttons

<b>Type of head</b>			<b>Flush or projecting push</b>
Degree of protection			IP 54, class II
Mounting (mm)		panel cut-out	Ø 22.4 (0 +0.1)
		mounting centres	30 (horizontal) x 40 (vertical)
Dimensions (mm)		Ø x Depth (below head)	Ø 29 x 41.5 (Ø 40 x 41.5 for Emergency stop)
Connection (1)			Screw clamp terminals, 1 x 0.34 mm <sup>2</sup> to 1 x 1.5 mm <sup>2</sup>
<b>Type of push</b>			<b>Flush, spring return</b>
References (10)*	black	 N/O	XB7 EA21P
		 C/O	XB7 EA25P
	green	 N/O	<b>XB7 EA31P</b>
		 C/O	XB7 EA35P
	red	 N/C	<b>XB7 EA42P</b>
		 C/O	XB7 EA45P
	yellow	 N/O	XB7 EA51P
<b>Type of push</b>			<b>Flush, spring return</b>
References	green	 N/O	<b>XB7 EA3131P</b>
	red	 N/C	–
	white	 N/O + C/O	<b>XB7 EA11341P</b>
	black	 N/O + C/O	<b>XB7 EA21341</b>
<b>Type of push</b>			<b>Flush, push and push-to-release</b>
References (10)*	black	 N/O	XB7 EH21P
		 C/O	XB7 EH25P
	green	 N/O	<b>XB7 EH31P</b>
		 C/O	XB7 EH35P
	red	 N/C	–
		 C/O	–
	yellow	 N/O	–
<b>Type of push</b>			<b>Projecting, spring return</b>
References	green	 N/O	–
	red	 N/C	<b>XB7 EL4232P</b>
	white	 N/O + C/O	–
	black	 N/O + C/O	–

(1) Alternative connection: 1 x 6.35 and 2 x 2.8 mm Faston connectors.



#### Selector switches and key switches

Type of operator		Black handle		Ronis key, n° 455
Number and type of positions		<b>2 positions</b> stay put 	<b>3 positions</b> stay put 	<b>2 positions</b> stay put  <b>3 positions</b> stay put 
References (10)*	N/O	<b>XB7 ED21P</b>	–	<b>XB7 EG21P</b>
	N/C + N/O	XB7 ED25P	–	–
	2 N/O	–	<b>XB7 ED33P</b>	–
		–	–	XB7 EG33P



#### Ø 40 mushroom head Emergency stop pushbuttons (2)

Type of push		Turn to release	Key release, Ronis 455
References (10)*	red  N/C	<b>XB7 ES542P</b>	<b>XB7 ES142P</b>
	red  N/C + N/O	XB7 ES545P	XB7 ES145P

(2) The mushroom head Emergency stop pushbuttons conform to standard IEC/EN 60947-5-5 and Machinery Directive 98/37/EC.

For conformity to standard EN 418, use a trigger action Emergency stop from the Harmony XB5 range (XB5A●8●●● and XB5AS9●●●). See page 2/10.

\* sold in lots of 10








## Contact functions and light functions

(1):

Voltage	Letter (●)
24 V AC/DC	B
120 V AC	G
230 V AC	M









### Illuminated pushbuttons

Type of head		Projecting push	
		circular	
Degree of protection		IP 54, class II	
Mounting (mm)		panel cut-out: Ø 22.4 (0 +0.1) mounting centres: 30 (horizontal) x 40 (vertical)	
Dimensions (mm)		Ø 29 x 41.5, (Ø 40 x 41.5 for Emergency stop)	
Connection (2)		Screw clamp terminals, 1 x 0.34 mm <sup>2</sup> to 1 x 1.5 mm <sup>2</sup>	
Type of push		Spring return	
Light source		Integral LED	Incandescent bulb direct supply (bulb not included)
Supply voltage		24 V DC or 230 V AC	6 or 24 V DC, or 130 V AC
References (10)*	green  N/O	<b>XB7 EW33●1P</b> (1)	<b>XB7 EW3361P</b>
	red  N/O	XB7 EW34●1P (1)	XB7 EW3461P
	N/C	XB7 EW34●2P (1)	–
yellow  N/O	XB7 EW35●1P (1)	XB7 EW3561P	
Type of push		Push and push-to-release	
Light source		Integral LED	Incandescent bulb direct supply (bulb not included)
Supply voltage		24 V DC or 230 V AC	6 or 24 V DC, or 130 V AC
References (10)*	green  N/O	<b>XB7 EH03●1P</b> (1)	<b>XB7 EH0361P</b>
	red  N/O	XB7 EH04●1P (1)	XB7 EH0461P
	N/C	XB7 EH04●2P (1)	–
yellow  N/O	XB7 EH05●1P (1)	XB7 EH0561P	



### Pilot lights

Light source		Integral LED	Incandescent bulb direct supply (bulb not included)	Incandescent bulb direct through resistor (bulb included)
Supply voltage		24VAC/DC or 120VAC or 230...240VAC	6 or 24 V DC, or 130 V AC	230 V AC
References (10)*	white 	<b>XB7 EV01●P</b> (1)	XB7 EV61P	XB7 EV71P
	green 	<b>XB7 EV03●P</b> (1)	<b>XB7 EV63P</b>	<b>XB7 EV73P</b>
	red 	<b>XB7 EV04●P</b> (1)	<b>XB7 EV64P</b>	<b>XB7 EV74P</b>
	yellow 	XB7 EV05●P (1)	XB7 EV65P	XB7 EV75P
	blue 	<b>XB7 EV06●P</b> (1)	XB7 EV66P	XB7 EV76P
	orange 	<b>XB7 EV08●P</b> (1)	XB7 EV68P	XB7 EV78P

### Incandescent bulbs, long life

BA 9s base fitting, Ø 11 mm max., length 28 mm max.

References	6 V (1.2 W)	24 V (2 W)	130 V (2.4 W)
	DL1 CB006	DL1 CE024	DL1 CE130

(1) Basic reference, to be completed by the letter B, G or M indicating the required voltage. See voltage table above.

(2) Alternative connection: 1 x 6.35 and 2 x 2.8 mm Faston connectors.

\* sold in lots of 10



#### Pushbuttons, spring return

<b>Type of push</b>		Flush	Projecting	Projecting (high guard)
<b>Colour of push</b>		Multi-colour (set of 7 clip-in coloured caps)		
Degree of protection		IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II		
Mounting (mm)	panel cut-out	Ø 31		
	mounting centres	57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)		
Depth below head (mm)		42		
Connection		Screw clamp terminals		
References	C/O	<b>9001KR1UH13</b>	<b>9001KR3UH13</b>	<b>9001KR2UH13</b>
	N/O	<b>9001KR1UH5</b>	<b>9001KR3UH5</b>	<b>9001KR2UH5</b>



#### Mushroom head Emergency stop pushbuttons, latching (1)

<b>Type of push</b>		Spring return	Push-pull		
		Ø 35 mushroom head	Ø 57 mushroom head	Ø 41 mushroom head	Ø 35 mushroom head
Degree of protection		IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II			
Mounting (mm)	panel cut-out	Ø 31			
	mounting centres	57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)			
	mounting centres (Ø 57 head)	57.2 x 57.2 (with legend 9001KN2●● or 9001KN3●●)			
Depth below head (mm)		42			
Connection		Screw clamp terminals			
References	C/O	<b>9001KR24RH13</b>	<b>9001KR25RH13</b>	<b>9001KR9R94H13</b>	<b>9001KR9R20H13</b>
	N/C	<b>9001KR24RH6</b>	<b>9001KR25RH6</b>	<b>9001KR9RH6</b>	<b>9001KR9R20H6</b>

(1) The mushroom head Emergency stop pushbuttons conform to standard IEC/EN 60947-5-5 and Machinery Directive 98/37/EC.

For conformity to standard EN 418, use a trigger action Emergency stop from the Harmony XB4 range (XB4B●8●●● and XB4BS9●●●). See page 2/6.



#### Selector switches and key switches

<b>Type of operator</b>		Long black handle	Key, n° 455			
	positions (2)	3 - spring return	2 - stay put	2 - spring return	3 - stay put	2 - stay put
Number and type of positions						
Degree of protection		IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II				
Mounting (mm)	panel cut-out	Ø 31				
	mounting centres	57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)				
Depth below head (mm)		42				
Connection		Screw clamp terminals				
References	N/O	–	<b>9001KS11FBH5</b>	<b>9001KS34FBH5</b>	–	–
	C/O	<b>9001KS53FBH1</b>	–	–	<b>9001KS43FBH1</b>	<b>9001KS11K1RH1</b>

(2) The symbol indicates key withdrawal position.

## Light functions



### Pilot lights

<b>Type of head</b>		Smooth lens cap			
Degree of protection		IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II			
Mounting (mm)	panel cut-out	Ø 31			
	mounting centres	57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)			
Depth below head (mm)		42			
Connection		Screw clamp terminals			
Type of light block		With high luminosity LED (included)			Incandescent BA 9s bulb (included)
References		24 V AC/DC	48 V AC/DC	120 V AC/DC	230 V AC
	green ●	<b>9001KP35LGG9</b>	<b>9001KP36LGG9</b>	<b>9001KP38LGG9</b>	<b>9001KP7G9</b>
	red ●	<b>9001KP35LRR9</b>	<b>9001KP36LRR9</b>	<b>9001KP38LRR9</b>	<b>9001KP7R9</b>
	yellow ●	<b>9001KP35LYA9</b>	<b>9001KP36LYA9</b>	<b>9001KP38LYA9</b>	<b>9001KP7A9</b>

2



### Illuminated pushbuttons, spring return

<b>Type of head</b>		Spring return flush push			
Degree of protection		IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II			
Mounting (mm)	panel cut-out	Ø 31			
	mounting centres	57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)			
Depth below head (mm)		42			
Connection		Screw clamp terminals			
Type of light block		With high luminosity LED (included)			Incandescent BA 9s bulb (included)
References		24 V AC/DC	48 V AC/DC	120 V AC/DC	230 V AC
	green ● C/O	<b>9001K3L35LGGH13</b>	<b>9001K3L36LGGH13</b>	<b>9001K3L38LGGH13</b>	<b>9001K2L7RH13</b>
	red ● C/O	<b>9001K3L35LRRH13</b>	<b>9001K3L36LRRH13</b>	<b>9001K3L38LRRH13</b>	<b>9001K2L7GH13</b>
	yellow ● C/O	<b>9001K3L35LYAH13</b>	<b>9001K3L36LYAH13</b>	<b>9001K3L38LYAH13</b>	<b>9001K2L7AH13</b>



### Illuminated Ø 41 mushroom head pushbuttons, latching, high luminosity LED

Degree of protection		IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II				
Mounting (mm)	panel cut-out	Ø 31				
	mounting centres	57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)				
Depth below head (mm)		42				
Connection		Screw clamp terminals				
Type of light block		With high luminosity LED (included)			Incandescent BA 9s bulb (included)	
<b>Type of head</b>		24 V AC/DC	48 V AC/DC	120 V AC/DC	230 V AC/DC	
	red ● C/O	<b>9001KR9P35RH13</b>	<b>9001KR9P36RH13</b>	<b>9001KR9P38RH13</b>	<b>9001KR9P7RH13</b>	
	<b>Type of head</b>		3 position, push-pull (pull: spring return, centre: stay put, push: spring return)			
	red ● N/C + N/C late break	<b>9001KR8P35RH25</b>	<b>9001KR8P36RH25</b>	<b>9001KR8P38RH25</b>	<b>9001KR8P7RH25</b>	



#### Pushbuttons, spring return

<b>Type of push</b>		Flush	Projecting	Projecting (high guard)
<b>Colour of push</b>		Multi-colour (set of 7 clip-in coloured caps)		
<b>Degree of protection</b>		IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 12 and 13 / Class II		
<b>Mounting (mm)</b>	panel cut-out	Ø 31		
	mounting centres	57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)		
<b>Depth below head (mm)</b>		42		
<b>Connection</b>		Screw clamp terminals		
<b>References</b>	C/O	<b>9001SKR1UH13</b>	<b>9001SKR3UH13</b>	<b>9001SKR2UH13</b>
	N/O	<b>9001SKR1UH5</b>	<b>9001SKR3UH5</b>	<b>9001SKR2UH5</b>



#### Selector switches

<b>Type of operator</b>		Long black handle			
	positions	3 - spring return	2 - stay put	2 - spring return	3 - stay put
<b>Number and type of positions</b>					
<b>Degree of protection</b>		IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 12 and 13 / Class II			
<b>Mounting (mm)</b>	panel cut-out	Ø 31			
	mounting centres	57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)			
<b>Depth below head (mm)</b>		42			
<b>Connection</b>		Screw clamp terminals			
<b>References</b>	N/O	–	<b>9001SKS11FBH5</b>	<b>9001SKS34FBH5</b>	–
	C/O	<b>9001SKS53FBH1</b>	–	–	<b>9001SKS43FBH1</b>



#### Pilot lights

<b>Type of head</b>		Smooth lens cap			
<b>Degree of protection</b>		IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 12 and 13 / Class II			
<b>Mounting (mm)</b>	panel cut-out	Ø 31			
	mounting centres	57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)			
<b>Depth below head (mm)</b>		42			
<b>Connection</b>		Screw clamp terminals			
<b>Type of light block</b>		With high luminosity LED (included)			Incandescent BA 9s bulb (included)
<b>References</b>	green	24 V AC/DC <b>9001SKP35LGG9</b>	48 V AC/DC <b>9001SKP36LGG9</b>	120 V AC/DC <b>9001SKP38LGG9</b>	230 V AC <b>9001SKP7G9</b>
	red	<b>9001SKP35LRR9</b>	<b>9001SKP36LRR9</b>	<b>9001SKP38LRR9</b>	<b>9001SKP7R9</b>
	yellow	<b>9001SKP35LYA9</b>	<b>9001SKP36LYA9</b>	<b>9001SKP38LYA9</b>	<b>9001SKP7A9</b>

## Accessories



### Contact blocks with protected terminals

Type of contact	Single contact blocks	
Connection	Screw clamp terminals	
References	C/O	9001KA1
	N/O	9001KA2
	N/C	9001KA3
	C/O, late break	9001KA4
	N/C, late break	9001KA5
	N/O, early make	9001KA6

2



### Enclosures

Type	Number of Ø 30 mm cut-outs	NEMA ratings	Reference
Aluminium	1	1, 3, 4, 6, 12, 13	9001KY1
	2	1, 3, 4, 6, 12, 13	9001KY2
	3	1, 3, 4, 6, 12, 13	9001KY3
	4	1, 3, 4, 6, 12, 13	9001KY4
Stainless steel	1	1, 3, 4, 4X, 13	9001KYSS1
	2	1, 3, 4, 4X, 13	9001KYSS2
	3	1, 3, 4, 4X, 13	9001KYSS3

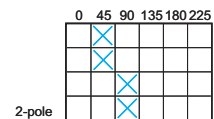
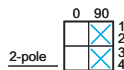
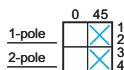


### Legends

Type	Colour of legend	Aluminium, size 44 x 43 mm black background	Plastic, size 57 x 57 mm white background
Marking	Blank	9001KN200	9001KN100WP
	START	9001KN201	9001KN101WP
	STOP (red background)	9001KN202	9001KN102RP
	FORWARD	9001KN206	9001KN106WP
	REVERSE	9001KN207	9001KN107WP
	CLOSE	9001KN208	9001KN108WP
	OPEN	9001KN209	9001KN109WP
	DOWN	9001KN210	9001KN110WP
	UP	9001KN211	9001KN111WP
	HIGH	9001KN214	9001KN114WP
	LOW	9001KN215	9001KN115WP
	RESET	9001KN223	9001KN123WP
	PULL TO START/ PUSH TO STOP	9001KN379	9001KN179WP



positions (°)

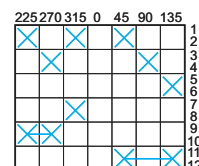
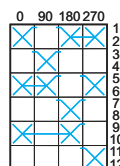
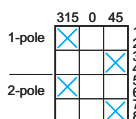


### Cam switches, K1 / K2 series

Function	Switches	ON-OFF switches	Stepping switches
Degree of protection front face	45° switching angle	90° switching angle	with "0" position
Conventional thermal current (Ith)	12 A   20 A	12 A   20 A	12 A   20 A
Rated insulation voltage (Ui) conforming to IEC60947-1	690 V	690 V	690 V
Number of positions	2	2	2 + "0" position
Number of poles	2	2	2
Dimensions of front plate (mm)	45 x 45	45 x 45	45 x 45
Front mounting method	Multifixing plate, 45 x 45 mm	<b>K1B 002ALH</b>   <b>K2B 002ALH</b>	<b>K1B 1002HLH</b>   <b>K2B 1002HLH</b>
	Plastic mounting plate for Ø 22 mm hole	<b>K1B 002ACH</b>   <b>K2B 002ACH</b>	<b>K1B 1002HCH</b>   <b>K2B 1002HCH</b>
		<b>K1D 012QLH</b>   <b>K2D 012QLH</b>	<b>K1D 012QCH</b>   <b>K2D 012QCH</b>



positions (°)



### Cam switches, K1 / K2 series

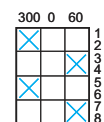
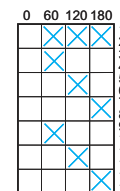
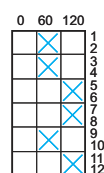
Function	Changeover switches	Ammeter switches	Voltmeter switches
Degree of protection front face	IP 65 (1)	IP 65 (1)	IP 65 (1)
Conventional thermal current (Ith)	12 A   20 A	12 A   20 A	12 A   20 A
Rated insulation voltage (Ui) conforming to IEC60947-1	690 V	690 V	690 V
Number of positions	2 + "0" position	3 + "0" position (3 circuits + "0" position)	6 + "0" position (measurements between 3 phases & N + "0" pos.)
Number of poles	2	4	7
Dimensions of front plate (mm)	45 x 45	45 x 45	45 x 45
Front mounting method	Multifixing plate, 45 x 45 mm	<b>K1D 002ULH</b>   <b>K2D 002ULH</b>	<b>K1F 003MLH</b>   to be compiled *
	Plastic mounting plate for Ø 22 mm hole	<b>K1D 002UCH</b>   <b>K2D 002UCH</b>	<b>K1F 003MCH</b>   to be compiled *
		<b>K1F 027MLH</b>   to be compiled *	<b>K1F 027MCH</b>   to be compiled *

(1) With seal KZ73 for switch with Multifixing plate, with seal KZ65 for Ø 22 mm hole mounting switches. Seal to be ordered separately.

(\*) Please consult your Schneider Electric agency.



positions (°)



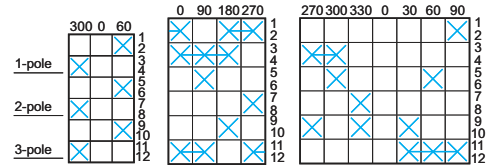
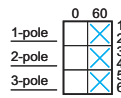
### Cam switches with key operated lock, K1 series

Function	Stepping switches	Run switches	Changeover switches + "0" pos.
Degree of protection front face	IP 65	IP 65	IP 65
Conventional thermal current (Ith)	12 A	12 A	12 A
Rated insulation voltage (Ui) conforming to IEC60947-1	690 V	690 V	690 V
Number of positions	2 + "0" position	3 + "0" position	2 + "0" position
Number of poles	3	2	2
Dimensions of front plate (mm)	55 x 100	55 x 100	55 x 100
Colour of handle	red   black	red   black	red   black
Front mounting method	Ø 22 mm hole + Ø 43.5 mm hole	<b>K1F 022QZ2</b>   <b>K1F 022QZ4</b>	<b>K1G 043RZ2</b>   <b>K1G 043RZ4</b>
		<b>K1D 002UZ2</b>   <b>K1D 002UZ4</b>	

## 10 to 150 A ratings



positions (°)



### Cam switches, K10 series

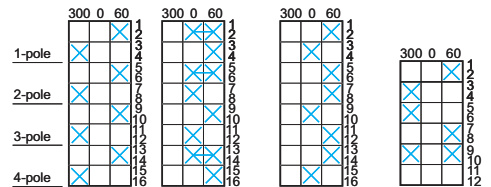
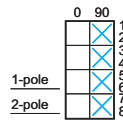
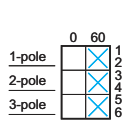
Function	Switches			Changeover switches		Ammeter switches	Voltmeter switches			
Degree of protection	front face	IP 65			with "0" position		IP 65	IP 65		
Conventional thermal current (I <sub>th</sub> )	10 A			10 A		10 A	10 A			
Rated insulation voltage (U <sub>i</sub> ) conforming to IEC60947-1	440 V			440 V		440 V	440 V			
Number of positions	2			2 + "0" position		3 + "0" pos. (1)	6 + "0" pos. (2)			
Number of poles	1	2	3	2	3	3	3			
Dimensions of front plate (mm)	30 x 30			30 x 30		30 x 30	30 x 30			
Front mounting method	By Ø 16 mm or 22 mm hole			K10 A001ACH	K10 B002ACH	K10 C003ACH	K10 D002UCH	K10 F003UCH	K10 F003MCH	K10 F027MCH

(1) (3 circuits + "0" position).

(2) (Measurements between 3 phases and N + "0" position).



positions (°)



### Cam switches, K30 series

Function	Switches	Switches	Changeover	Starting	Starting	Reversing		
Degree of protection	front face	ON-OFF	with "0" position	star-delta	2-speed	IP 40		
Degree of protection	front face	IP 40	IP 40	IP 40	IP 40	IP 40		
Conventional thermal current (I <sub>th</sub> )	32 A	32 A	32 A	32 A	32 A	32 A		
Rated insulation voltage (U <sub>i</sub> ) conforming to IEC60947-1	690 V	690 V	690 V	690 V	690 V	690 V		
Number of positions	2	2	3	3	3	3		
Number of poles	3	3	4	3	3	3		
Dimensions of front plate (mm)	64 x 64	64 x 64	64 x 64	64 x 64	64 x 64	64 x 64		
Front mounting method	Multifixing	K30 C003AP (3)	K30 C003HP (3)	K30 D004HP (3)	K30 H004UP (3)	K30 H001YP (3)	K30 H004PP (3)	K30 E003WP (3)

(3) To order switches with other thermal current ratings (50, 63, 115, 150 A): replace the number 30 in the reference by 50, 63, 115 or 150 respectively.

Example: a switch with a 32 A current rating, for example K30 C003AP, becomes K50 C003AP for a current rating of 50 A.

## Accessories for cam switches K1/K2

### Rubber seals

for IP 65 degree of protection	For use with heads	with 45 x 45 mm front plate Ø 22 mm hole or 4 hole front mtg.	with 60 x 60 mm front plate Ø 22 mm hole or 4 hole front mtg.	with 45 x 45 mm front plate multifixing
References (5)*		KZ 65	KZ 66	KZ 73

\* sold in lots of

### Universal range

High performance and wide choice of units



Ø 70 mm

Illuminated beacons XVB L		Steady light signaling		Flashing light signaling	
<b>Light source</b>		Incandescent BA 15d bulb, 10 W max. (not included)	Protected BA 15d LED (included)	Protected BA 15d LED (included)	"Flash" discharge tube 5 J (1)
<b>Degree of protection</b>		IP 66			
<b>Beacon references (2)</b>	12...250 V AC/DC	<b>XVBL3●</b>	–	–	–
	24 V AC/DC	–	<b>XVBL0B●</b>	<b>XVBL1B●</b>	<b>XVBL6B●</b>
	120 V AC	–	<b>XVBL0G●</b>	<b>XVBL1G●</b>	<b>XVBL6G●</b>
	230 V AC	–	<b>XVBL0M●</b>	<b>XVBL1M●</b>	<b>XVBL6M●</b>

Ø 70 mm



Indicator banks XVB C comprising 2 to 5 signaling units (3)		Base units	Steady light signaling		Flashing light signaling	"Flash" light signaling	Audible units (90 db at 1 m)
<b>Light source</b>		–	Incandescent BA 15d bulb, 10 W max. (not included)	Integral protected LED	Integral protected LED	"Flash" discharge tube 5 J (1)	–
<b>Degree of protection</b>		IP 66					
<b>Base unit references</b>	with cover	<b>XVBC21 (4)</b>	–	–	–	–	–
	without cover	<b>XVBC07 (5)</b>	–	–	–	–	–
<b>Lens unit references (2)</b>	12... 230 V AC/DC	–	<b>XVBC3●</b>	–	–	–	–
	24 V AC/DC	–	–	<b>XVBC2B●</b>	<b>XVBC5B●</b>	<b>XVBC6B●</b>	–
	120 V AC	–	–	<b>XVBC2G●</b>	<b>XVBC5G●</b>	<b>XVBC6G●</b>	–
	230 V AC	–	–	<b>XVBC2M●</b>	<b>XVBC5M●</b>	<b>XVBC6M●</b>	–
<b>Audible unit references</b>	12...48 V AC/DC	–	–	–	–	–	<b>XVBC9B</b>
unidirectional	120...230 V AC	–	–	–	–	–	<b>XVBC9M</b>

(4) For connection on AS-Interface, order base unit XVBC21A (side cable entry) or XVBC21B (bottom cable entry with M12 connector on flying lead).

(5) For indicator banks with "flash" discharge tube unit.



Ø 50 mm

Indicator banks XVP C comprising 2 to 5 signaling units (3), black clamping ring (6)		Base unit	Steady or flashing light signaling	"Flash" light signaling		Audible units (55...85 dB at 1 m)
<b>Light source</b>		–	Incandescent BA 15d bulb, 7 W max. (not included)	"Flash" discharge tube 0.3 J	"Flash" discharge tube 0.6 J	–
<b>Degree of protection</b>		IP 65				
<b>Base unit</b>	with cover	<b>XVPC21</b>	–	–	–	–
<b>References (2)</b>	250 V max.	–	<b>XVPC3●</b>	–	–	–
	24 V AC/DC (flash) - 24 V DC (buzzer)	–	–	<b>XVPC6B●</b>	–	<b>XVPC09B</b>
	120 V AC	–	–	–	<b>XVPC6G●</b>	<b>XVPC09G</b>
	230 V AC	–	–	–	<b>XVPC6M●</b>	<b>XVPC09M</b>

(1) To order a lens unit with a 10 J discharge tube, replace the number 6 by 8 in the reference (example: XVBL6B● becomes XVBL8B●).

(2) To obtain the complete reference, replace the ● by the number designating the colour as follows: 3 = green, 4 = red, 5 = orange, 6 = blue, 7 = clear, 8 = yellow.

(3) An indicator bank comprises: 1 base unit + 1 to 5 signaling units maximum.

(6) To order products with a **cream clamping ring**, add the letter **W** to the end of the reference (example: base unit + green lens unit: XVPC21W + XVPC33W etc.).

### Optimum range

Excellent price/performance ratio



Ø 45 mm

Complete, pre-cabled indicator banks XVM (1)		2 sig. units + integral buzzer (2)		3 signaling units + integral buzzer (2)			
		Steady light signaling		Steady light signaling + "flash" (3)			
Light source		Incandescent BA 15d bulb, 5 W max. (included)	BA 15d LED (included)	Incandescent BA 15d bulb, 5 W max. (included)	BA 15d LED (included)	Incandescent BA 15d bulb, 5 W max. (included)	BA 15d LED (included)
Degree of protection		IP 42					
Signalling colours		Red - Green		Red - Orange - Green			
Indicator bank references		24 V AC/DC	XVMB1RGS	XVMB2RGS	XVMB1RAGS	XVMB2R6AGS	XVMB2R6AGS
		120 V AC/DC (bulb) - 120 V AC (LED)	XVMG1RGS	XVMG2RGS	XVMG1RAGS	XVMG2R6AGS	XVMG2R6AGS
		230 V AC/DC (bulb) - 230 V AC (LED)	XVMM1RGS	XVMM2RGS	XVMM1RAGS	XVMM2R6AGS	XVMM2R6AGS

(1) Indicator banks XVM are also available as separate components for customised assembly by the user: please refer to [www.schneider-electric.com](http://www.schneider-electric.com).

(2) To order products without an integral buzzer, delete the letter **S** from the end of the reference (example: XVMB2RGS becomes XVMB2RG).

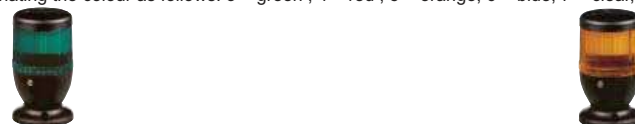
(3) Flash signaling colour: red - 0.8 J.



Ø 45 mm

Miniature illuminated beacons XVDLS		Steady light signaling	"Flash" light signaling
Light source		Incandescent BA 15d bulb, 5 W max. (not included)	"Flash" discharge tube, 0.5 J
Degree of protection		IP 40	
Beacon references (4)		24...230 V AC/DC	XVDLS3●
		24 V AC/DC	-
		120 V AC	XVDLS6B●
		230 V AC	XVDLS6M●

(4) To obtain the complete reference, replace the ● by the number designating the colour as follows: 3 = green , 4 = red , 5 = orange, 6 = blue, 7 = clear, 8 = yellow.



Ø 70 mm

Illuminated beacons XVE L		Steady light signaling	"Flash" light signaling
Light source		Incandescent BA 15d bulb, 5 W max. (not included)	Integral LED
Degree of protection		IP 42/IP 54 (with sealing kit)	
Beacon references (5)		24... 240 V AC/DC	XVEL3●
		24 V AC/DC	-
		120 V AC	XVEL2B●
		230 V AC	XVEL2M●
			XVEL6B●
			XVEL6G●
			XVEL6M●

(5) To obtain the complete reference, replace the ● by the number designating the colour as follows: 3 = green , 4 = red , 5 = orange, 6 = blue, 7 = clear.



Ø 70 mm

Indicator banks XVE C comprising 2 to 5 signaling units (5)		Base units	Steady light signaling	Flashing light signaling	"Flash" light signaling	Audible units (85 db at 1 m)
Light source		-	Incandescent BA 15d bulb, 5 W max. (not included)	Integral LED	Integral LED	"Flash" discharge tube 1 J
Degree of protection		IP 42/IP 54 (with sealing kit)				
Base unit references		IP 42	XVEC21	-	-	-
		IP 54	XVEC21P	-	-	-
Lens unit references (6)		24...230 V AC/DC	-	XVEC3●	-	-
		24 V AC/DC	-	-	XVEC2B●	XVEC5B●
		120 V AC	-	-	XVEC2G●	XVEC5G●
		230 V AC	-	-	XVEC2M●	XVEC5M●
					XVEC6B●	XVEC9B
					XVEC6G●	XVEC9G
					XVEC6M●	XVEC9M

(6) An indicator bank comprises: 1 base unit + 1 to 5 signaling units.

### Application specific range

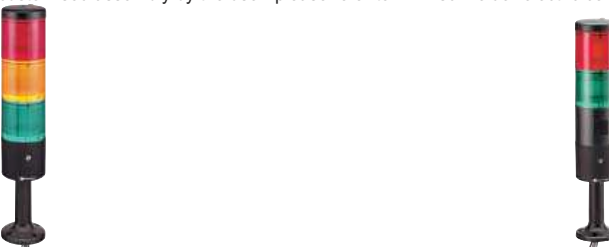
Ready to use for specific requirements



Ø 70 mm

Complete, pre-cabled beacons and indicator banks XVD (1)	1 signaling unit Flash light		2 signaling units Steady light		Steady light + "flash"	"Flash" light + buzzer	
	Light source	"Flash" discharge tube 5 J		BA 15d LED (included)		BA 15d LED (included) + "Flash" discharge tube, 5 J	"Flash" discharge tube, 5 J + buzzer, 90 db
Degree of protection	IP 40						
Signalling colours	Orange	Red	Green - Red	Orange - Red	Green - Red	Orange	
Beacon/Indicator bank references	24 V AC/DC	XVDBA6	XVDBR6	XVDB2GR	XVDB2AR	XVDB2GR6	XVDBSA6
	230 V AC	XVDMA6	XVDMR6	–	–	–	–

(1) Indicator banks XVD are also available as separate components for customised assembly by the user: please refer to [www.schneider-electric.com](http://www.schneider-electric.com).



Ø 70 mm

Complete, pre-cabled beacons and indicator banks XVD (1)	3 signaling units Steady light		Steady light + "flash"	Steady light + buzzer	
	Light source	Incandescent BA 15d bulb, 10 W max. (included)	BA 15d LED (included)	BA 15d LED (included) + "Flash" discharge tube, 5 J	BA 15d LED (included) + buzzer, 90 db
Degree of protection	IP 40				
Signalling colours	Green - Orange - Red		Green - Orange - Red	Green - Red (2)	
Indicator bank references	24 V AC/DC	XVDB1GAR	XVDB2GAR	XVDB2GAR6	XVDB2SGR
	230 V AC	XVDM1GAR	XVDM2GAR	–	XVDM2SGR

Complete, pre-cabled beacons and indicator banks XVD (2)	4 signaling units Steady light		Steady light + buzzer		
	Light source	BA 15d LED (included)		Incandescent BA 15d bulb, 10 W max. (included)	BA 15d LED (included)
Degree of protection	IP 40				
Signalling colours	Clear - Green - Orange - Red		Green - Orange - Red		
Indicator bank references	24 V AC/DC	XVDB2CGAR		XVDB1SGAR	XVDB2SGAR
	230 V AC	–		–	XVDM2SGAR

(1) Beacons and indicator banks XVD are also available as separate components for customised assembly by the user: please refer to [www.schneider-electric.com](http://www.schneider-electric.com).

(2) Also available in 24 V AC/DC with colours Orange - Red: **XVDB2SAR**.



Rotating mirror beacon XVR and Sirens XVS	Rotating mirror beacon		Sirens, 106 db		
Description	Halogen bulb 70 W H1 (included)	Incandescent bulb 25 W BA 15d (included)	1 tone	2 tone	
Diameter	Ø 165 mm		Ø 92 mm		
Degree of protection	IP 65		IP 40		
References (3)	24 V AC/DC	XVR1B9●	XVR1B0●	XVSB1	XVSB2
	120 V AC	–	XVR1G0●	XVSG1	XVSG2
	230 V AC	–	XVR1M0●	XVSM1	XVSM2

(3) To obtain the complete reference, replace the ● by the number designating the colour as follows: 3 = green , 4 = red , 5 = orange, 6 = blue, 8 = yellow.



Bulbs and LEDs		Beacons and indicator banks XVB / XVP (1) / XVD				Rotating mirror beacon XVR	
<b>Light source</b>		Incandescent BA 15d base 7 W	Incandescent BA 15d base 10 W (not XVP)	LED (2) BA 15d base	Flashing LED (2) BA 15d base	Incandescent BA 15d base 25 W	Halogen H1 base 70 W
<b>References</b>	12 V	DL1BEJ	DL1BLJ	–	–	–	–
	24 V	DL1BEB	DL1BLB	DL1BDB●	DL1BKB●	DL1 BRB	DL1 BRBH
	48 V	DL1BEE	DL1BLE	–	–	–	–
	120 V	DL1BEG	DL1BLG	DL1BDG●	DL1BKG●	DL1 BRG	–
	230 V	DL1BEM	DL1BLM	DL1BDM●	DL1BKM●	DL1 BRM	–

(1) Indicator banks XVP can be fitted with 5 W incandescent bulbs: see beacons XVDLS / XVE.

(2) To obtain the complete reference, replace the ● by the number designating the colour as follows: 1 = white, 3 = green, 4 = red, 5 = orange, 6 = blue, 8 = yellow.



Bulbs and LEDs		Beacons XVDLS / XVE	Indicator banks XVM / XVE			
<b>Light source</b>		Incandescent BA 15d base 5 W	Incandescent BA 15d base 5 W	LED (3) BA 15d base	Flashing LED (3) BA 15d base	"Flash" discharge tube, 0.8 Joule BA 15d base
<b>References</b>	24 V	DL1EDBS	DL1EDBS	DL2EDB●	DL1EKB●	DL6BB
	120 V	DL1EDGS	DL1EDGS	DL2EDG●	DL1EKG●	DL6BG
	230 V	DL1EDMS	DL1EDMS	DL2EDM●	DL1EKM●	DL6BM

(3) To obtain the complete reference, replace the ● by the number designating the colour as follows: 1 = white, 3 = green, 4 = red, 6 = blue, 8 = orange.



Mounting accessories		Beacons and indicator banks XVB / XVD / XVE		Indicator banks XVP	Indicator banks XVM		Rotating mirror beacon XVR	
<b>Description</b>		Aluminium tube with integral black plastic fixing base	Plastic tube with integral black plastic fixing base	Aluminium tube with integral black plastic fixing base	Aluminium tube with steel fixing bracket	Aluminium tube with integral cream plastic fixing base	Aluminium tube with steel fixing bracket	–
<b>Diameter (mm)</b>		Ø 25	Ø 25	Ø 20	Ø 20	Ø 20	Ø 20	–
<b>Support tubes</b>	60 mm	XVEZ13	–	–	–	–	–	–
	100 mm	–	–	–	XVPC02T	XVMZ02	XVMZ02T	–
	112 mm	–	–	XVPC02 (4)	–	–	–	–
	120 mm	XVBZ02	–	–	–	–	–	–
	140 mm	–	XVDC02	–	–	–	–	–
	250 mm	–	–	–	XVPC03T	XVMZ03	XVMZ03T	–
	260 mm	–	–	XVPC03 (4)	–	–	–	–
	400 mm	–	–	–	XVPC04T	XVMZ04	XVMZ04T	–
	410 mm	–	–	XVPC04 (4)	–	–	–	–
	420 mm	XVBZ03	–	–	–	–	–	–
820 mm	XVBZ04	–	–	–	–	–	–	
<b>Fixing plates, black</b>	for vertical support	XVBC12		XVPC12 (4)		–	–	XVR012
	for horizontal support	XVBZ01		–	–	–	–	XVR013

(4) To order an aluminium support tube with integral cream fixing base, add the letter **W** to the end of the reference (example: XVPC02W).



#### Type XAC A "Pistol grip"

Degree of protection	IP 65 / Nema 4, 4X / Class II				
Rated operational characteristics	AC 15 (240 V 3 A), DC 13				
Conventional thermal current	lthe	10 A			
Connection	Screw clamp terminals, 1 x 2.5 mm <sup>2</sup> or 2 x 1.5 mm <sup>2</sup>				
For control of	single-speed motors		2-speed motors		
Dimensions (mm)	W x H x D	52 x 295 x 71 (x 85 with ZA2 BS44)		52 x 295 x 71 (x 85 with ZA2 BS44)	
Number of operators	mechanically interlocked	2		2	
	Emergency stop	without	ZA2 BS44	without	ZA2 BS44
References		XAC A201	XAC A2013	XAC A207	XAC A2073



#### Type XAC A

For control of single-speed motors					
Dimensions (mm)	W x H x D	80 x 314 x 70 (x 90 with ZA2 BS44)		80 x 440 x 70 (x 90 with ZA2 BS54)	
Number of operators	mechanically interlocked between pairs	2		4	
	Emergency stop	without	ZA2 BS44	without	ZA2 BS54
References		XAC A271	XAC A2713	XAC A471	XAC A4713



For control of single-speed motors				
Dimensions (mm)	W x H x D	80 x 500 x 70 (x 90 with ZA2 BS54)		80 x 560 x 70
Number of operators	mechanically interlocked between pairs	6		8
	Emergency stop	without	ZA2 BS54	without
References		XAC A671	XAC A6713	XAC A871

# Stations for user assembly

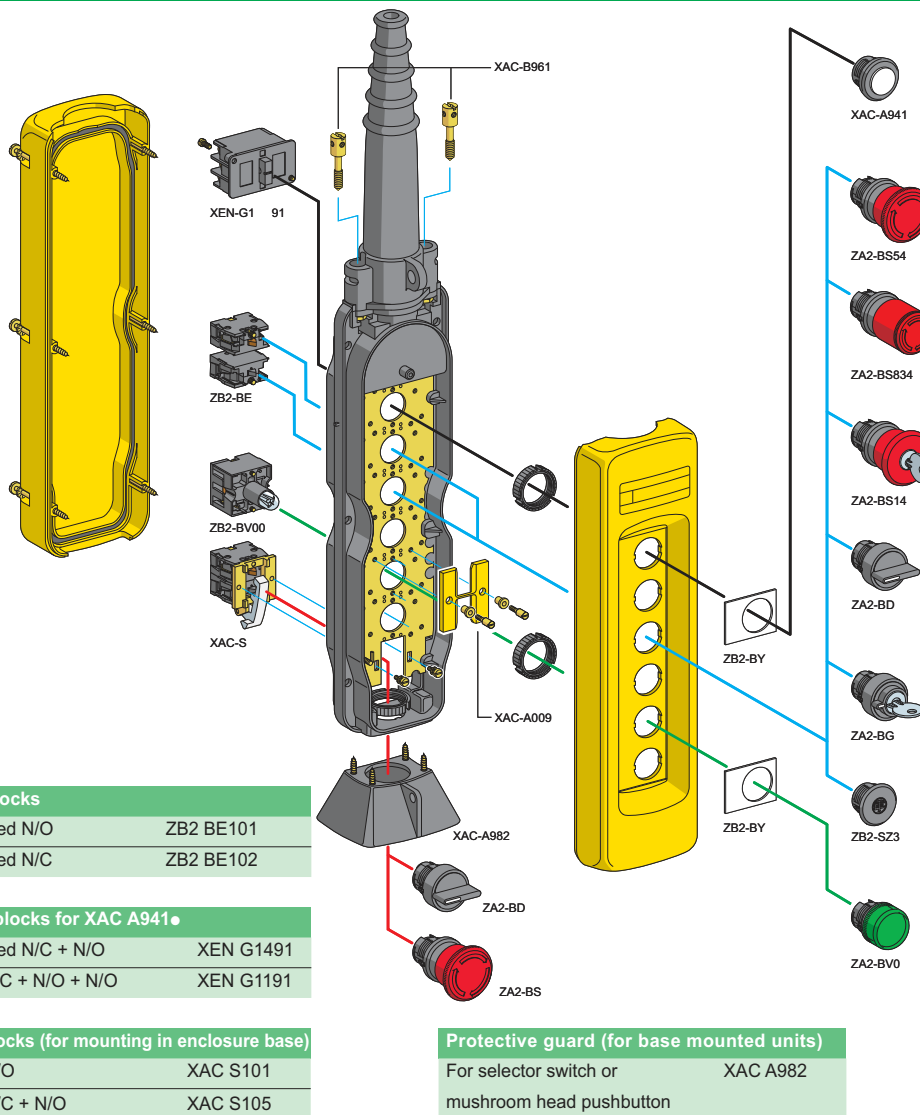


## Empty enclosures type XAC A

Number of ways	2	3	4	5	6	8	12
References	XAC A02	XAC A03	XAC A04	XAC A05	XAC A06	XAC A08	XAC A12

2

## Separate components (for mounting in enclosures XAC A)



Contact blocks	
Single-speed N/O	ZB2 BE101
Single-speed N/C	ZB2 BE102

Contacts blocks for XAC A941	
Single-speed N/C + N/O	XEN G1491
2-speed N/C + N/O + N/O	XEN G1191

Contact blocks (for mounting in enclosure base)	
N/O	XAC S101
N/C + N/O	XAC S105

Protective guard (for base mounted units)	
For selector switch or mushroom head pushbutton	XAC A982

Booted operators	
white	XAC A9411
black	XAC A9412

Mushroom head, latching (1)	
turn to release Ø 30	ZA2 BS44
Ø 40	ZA2 BS54

Mushroom head, latching, trigger action (1)	
turn to release Ø 30	ZA2 BS834
Ø 40	ZA2 BS844

Mushroom head, latching (1)	
key release Ø 30	ZA2 BS74
Ø 40	ZA2 BS14

Selector switch	
2 pos. stay put	ZA2 BD2
3 pos. stay put	ZA2 BD3

Key switch	
key n° 455 2 pos. stay put	ZA2 BG4
3 pos. stay put	ZA2 BG5

Blanking plug	
with seal and fixing nut	ZB2SZ3

Pilot light heads	
white	ZA2 BV01
green	ZA2 BV03
red	ZA2 BV04
yellow	ZA2 BV05

Pilot light bodies	
direct supply	ZB2 BV006
direct supply, through resistor	ZB2 BV007

## Legends, 30 x 40 mm

Legends, 30 x 40 mm	With symbols conforming to NF E 52-124						With text			
References	ZB2 BY4901	ZB2 BY4903	ZB2 BY4907	ZB2 BY4909	ZB2 BY4913	ZB2 BY4915	ZB2 BY4930	ZB2 BY2303	ZB2 BY2304	
								blank		
References	ZB2 BY2904	ZB2 BY2906	ZB2 BY2910	ZB2 BY2912	ZB2 BY2916	ZB2 BY2918	ZB2 BY2931	white or yellow background	ZB2 BY4101	

(1) The mushroom head Emergency stop pushbuttons conform to standard IEC/EN 60947-5-5 and Machinery Directive 98/37/EC. Trigger action mushroom head Emergency stop pushbuttons conform to standard EN 418.