

The essential guide Harmony control and signaling units

helping you easily
select the right product

2008



Control and signalling units

Harmony *Optimise the creation of your dialogue solutions!*



The world leader for control and signalling components, offers you its ranges of: pushbuttons, switches and pilot lights, beacons and indicator banks (including audible units) and components for hoisting applications.

Unequalled and of high quality, it is the largest offer on the market. It **intelligently** adapts to all types of applications in the industrial, building, tertiary and infrastructure sectors.



● **Openness:** in perfect synergy with other Telemecanique equipment, this offer optimises the creation of your dialogue solutions.



● **Simplicity:** the clip together components ensure simple and secure assembly.

● **Ingenuity:** LED technology for all signalling functions; "Superbright" LED offer for applications requiring a high level of visibility.

● **Robustness:** mechanical performance much higher than standard requirements.

● **Flexibility:** of modular construction, the products evolve with the automation system.

● **Compactness:** the overall dimensions are the smallest on the market.



Contents



Pushbuttons, switches and pilot lights

- Pushbuttons, switches and pilot lights Ø 16 with plastic bezel, **Harmony XB6**2 to 4
- LED pilot lights Ø 8 and 12
Harmony XVL5
- Pushbuttons, switches and pilot lights Ø 22 with metal bezel, **Harmony XB4**6 to 9
- Pushbuttons, switches and pilot lights Ø 22 with plastic bezel, **Harmony XB5**10 to 12
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- Pushbuttons, switches and pilot lights Ø 30 with metal or plastic bezel, **Harmony 9001**16 to 19
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- Beacons and indicator banks accessories
Harmony XV25

Components for lifting applications

- Pendant control stations
XAC26 and 27
- Control handles and control stations
XK (*consult your Schneider Electric agency*)

(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

Type of head		Flush push				
Shape of head		rectangular (2)				
Degree of protection		IP 65 / Nema 4, 4X, 13 / Class II				
Mounting (mm)	panel cut-out	$\varnothing 16.2^{+0.2}_0$				
	mounting centres	24 x 18 with rectangular head, 18 x 18 with square or circular head				
Dimensions (mm)	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				
Connection (3)		Tags for 2.8 x 0.5 Faston connectors or for soldering				
Type of push		Spring return				
		Complete products	Products for user assembly			
		12 ... 24 V AC/DC				
References	white	N/O	XB6 DW1B1B	ZB6 E●1B (1)	ZB6 Z1B	ZB6 DW1
		N/C + N/O	XB6 DW1B5B	ZB6 E●1B (1)	ZB6 Z5B	ZB6 DW1
	green	N/O	XB6 DW3B1B	ZB6 E●3B (1)	ZB6 Z1B	ZB6 DW3
		N/C + N/O	XB6 DW3B5B	ZB6 E●3B (1)	ZB6 Z5B	ZB6 DW3
	red	N/C	XB6 DW4B2B	ZB6 E●4B (1)	ZB6 Z2B	ZB6 DW4
		N/C + N/O	XB6 DW4B5B	ZB6 E●4B (1)	ZB6 Z5B	ZB6 DW4
	yellow	N/O	–	ZB6 E●5B (1)	ZB6 Z1B	ZB6 DW5
		N/C + N/O	XB6 DW5B5B	ZB6 E●5B (1)	ZB6 Z5B	ZB6 DW5
Type of push			Latching			
References	white	N/O	–	ZB6 E●1B (1)	ZB6 Z1B	ZB6 DF1
		N/C + N/O	XB6 DF1B5B	ZB6 E●1B (1)	ZB6 Z5B	ZB6 DF1
	green	N/O	XB6 DF3B1B	ZB6 E●3B (1)	ZB6 Z1B	ZB6 DF3
		N/C + N/O	XB6 DF3B5B	ZB6 E●3B (1)	ZB6 Z5B	ZB6 DF3
	red	N/C	XB6 DF4B2B	ZB6 E●4B (1)	ZB6 Z2B	ZB6 DF4
		N/C + N/O	XB6 DF4B5B	ZB6 E●4B (1)	ZB6 Z5B	ZB6 DF4
	yellow	N/O	–	ZB6 E●5B (1)	ZB6 Z1B	ZB6 DF5
		N/C + N/O	–	ZB6 E●5B (1)	ZB6 Z5B	ZB6 DF5



Pilot lights

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

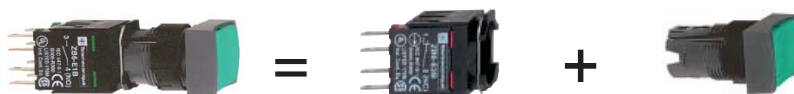
(1) Basic reference, to be completed by the letter B, G or M indicating the required voltage. See voltage table above.

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

(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).

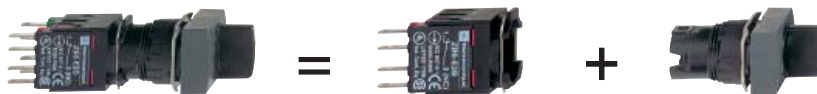
(2) Alternative connection: 1 x 0.5 pins for printed circuit boards.



Ø 30 mushroom head Emergency stop pushbuttons (3)							
Type of head			Trigger action (EN 418)				
Shape of head			cylindrical				
Type of push			Turn to release				
			Complete products	Products for user assembly			
References	red		2 N/C + 1 N/O	XB6 AS8349B	ZB6 E2B	ZB6 Z5B	ZB6 AS834
Type of push			Key release, Ronis 200				
References	red		2 N/C + 1 N/O	XB6 AS9349B	ZB6 E2B	ZB6 Z5B	ZB6 AS934

(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

Type of head		Black handle
Shape of head		rectangular (2)
Degree of protection		IP 66 / Nema 4, 4X, 13 / Class II
Mounting (mm)	panel cut-out mounting centres	Ø 16.2 ^{+0.2} ₀
Dimensions (mm)	W x H x D (below head)	24 x 18 with rectangular head, 18 x 18 with square or circular head
Connection (3)		24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head
		Tags for 2.8 x 0.5 Faston connectors or for soldering

Type of operator		Black handle	
		Complete products	Products for user assembly
Number and type of positions		2 positions	2 positions 2 positions
References	N/O	XB6 DD221B	ZB6 Z1B ZB6 DD22 ZB6 Z1B ZB6 DD24
	N/C + N/O	XB6 DD225B	ZB6 Z5B ZB6 DD22 ZB6 Z5B ZB6 DD24
Number and type of positions		3 positions	3 positions 3 positions
References	N/O	XB6 DD235B	ZB6 Z5B ZB6 DD23 ZB6 Z5B ZB6 DD25



Type of operator		Ronis key, n° 200	
		Complete products	Products for user assembly
Number and type of positions		2 positions	2 positions 2 positions
References	N/C + N/O	XB6 DGC5B	ZB6 Z5B ZB6 DGC ZB6 Z5B ZB6 DGB
Number and type of positions		3 positions	3 positions 3 positions
References	N/C + N/O	XB6 DGH5B	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

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

(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	XVL A1●3	XVL A2●3	XVL A3●3
	red	XVL A1●4	XVL A2●4	XVL A3●4
	yellow	XVL A1●5	XVL A2●5	XVL A3●5
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 _e = 240 V and I _e = 1.5 A or U _e = 120 V and I _e = 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	ZB6 E1B	White	ZB6 EB1B	ZB6 EG1B	ZB6 EM1B
	N/C	ZB6 Z2B	ZB6 E2B	Green	ZB6 EB3B	ZB6 EG3B	ZB6 EM3B
	2 N/O	ZB6 Z3B	–	Red	ZB6 EB4B	ZB6 EG4B	ZB6 EM4B
	2 N/C	ZB6 Z4B	–	Yellow	ZB6 EB5B	ZB6 EG5B	ZB6 EM5B
	N/O + N/C	ZB6 Z5B	–	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)*	ZB6 YD20	ZB6 YD21	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)*	–		ZB6 Y1001	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	ZB6 Y7001			ZB6 Y7330		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		ZB6 YA001	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)		panel cut-out	Ø 22.5 (22.4 ^{+0.4} ₀ recommended)					
		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	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 ^{+0.4} ₀ recommended)
	mounting centres	
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	XB4 BD21	ZB4 BZ101 ZB4 BD2	XB4 BD41	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	XB4 BD33	ZB4 BZ103 ZB4 BD3	XB4 BD53	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	XB4 BG21	ZB4 BZ101 ZB4 BG2	XB4 BG41	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	XB4 BG61	ZB4 BZ101 ZB4 BG6	–	–
	black ● N/O + N/O	–	–	XB4 BG33	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 ZBE 101
	N/C ZBE 102

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


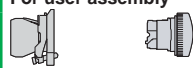





(2) The symbol  indicates key withdrawal position.

* sold in lots of







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 ^{+0.4} ₀ 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)		
	Products	Complete			Complete	For user assembly 	
Supply voltage		24 V AC/DC	48...120 V AC	230...240 V AC	250 V max., 2.4 W max.		
References	white 	XB4 BVB1	XB4 BVG1	XB4 BVM1	XB4 BV61	ZB4 BV6	ZB4 BV01
	green 	XB4 BVB3	XB4 BVG3	XB4 BVM3	XB4 BV63	ZB4 BV6	ZB4 BV03
	red 	XB4 BVB4	XB4 BVG4	XB4 BVM4	XB4 BV64	ZB4 BV6	ZB4 BV04
	yellow 	XB4 BVB5	XB4 BVG5	XB4 BVM5	XB4 BV65	ZB4 BV6	ZB4 BV05
	blue 	XB4 BVB6	XB4 BVG6	XB4 BVM6	–	–	–



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



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 40			IP 65			
Light source	Integral LED			Integral LED			
	Products	Complete			Complete		
Supply voltage		24 V AC/DC	48...120 V AC	230...240 V AC	24 V AC/DC	48...120 V AC	230...240 V AC
References	green  N/C + N/O	–	–	–	XB4 BK123B5	XB4 BK123G5	XB4 BK123M5
	red  N/C + N/O	–	–	–	XB4 BK124B5	XB4 BK124G5	XB4 BK124M5
	yellow  N/C + N/O	XB4 BW84B5	XB4 BW84G5	XB4 BW84M5	XB4 BK125B5	XB4 BK125G5	XB4 BK125M5

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

Separate components and accessories

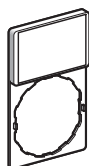
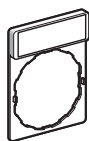


Electrical blocks

	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 ZBE 101	white ●	ZBV B1	ZBV G1	ZBV M1	ZBV 6
	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	



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

Marking	Background colour: black or red					white or yellow		
References (10)*	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/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

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

* sold in lots of

Pushbuttons, switches and pilot lights Ø 22 with plastic bezel

Contact functions



Pushbuttons, spring return								
Type of head			Circular bezel					
Degree of protection			IP 66 / Nema 4X, 13 / Class II					
Mounting (mm)		panel cut-out	Ø 22.5 (22.4 ^{+0.4} ₀ recommended)					
		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 ⓘ N/O	XB5 AA3311	ZB5 AZ101	ZB5 AA3311	–	–	–
		red ⓘ N/C	XB5 AA4322	ZB5 AZ102	ZB5 AA4322	–	–	–
		white ⓘ N/O	XB5 AA3341	ZB5 AZ101	ZB5 AA334	–	–	–
		black ⓘ 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 ⓘ 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)		
			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	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)	panel cut-out mounting centres	Ø 22.5 (22.4 ^{+0.4} ₀ recommended)			
Depth (mm)	below head	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	XB5 AD21	ZB5 AZ101 ZB5 AD2	XB5 AD41	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	XB5 AD33	ZB5 AZ103 ZB5 AD3	XB5 AD53	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	XB5 AG21	ZB5 AZ101 ZB5 AG2	XB5 AG41	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)
			24 V AC/DC	48...120 V AC	230...240 V AC	250 V max., 2.4 W max.
References (5)*	N/O	ZBE 101	white	ZBV B1	ZBV G1	ZBV M1
	N/C	ZBE 102	green	ZBV B3	ZBV G3	ZBV M3
			red	ZBV B4	ZBV G4	ZBV M4
			yellow	ZBV B5	ZBV G5	ZBV M5
			blue	ZBV B6	ZBV G6	ZBV M6
						Colour provided by lens

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

Type of head		Circular bezel Smooth lens cap					
Degree of protection		IP 66 / Nema 4X, 13 / Class II					
Mounting (mm)	panel cut-out mounting centres	Ø 22.5 (22.4 ^{+0.4} ₀ 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)		
	Products	Complete			Complete	For user assembly	
Supply voltage		24 V AC/DC	48...120 V AC	230...240 V AC	250 V max., 2.4 W max.		
References	white	XB5 AVB1	XB5 AVG1	XB5 AVM1	XB5 AV61	ZB5 AV6	ZB5 AV01
	green	XB5 AVB3	XB5 AVG3	XB5 AVM3	XB5 AV63	ZB5 AV6	ZB5 AV03
	red	XB5 AVB4	XB5 AVG4	XB5 AVM4	XB5 AV64	ZB5 AV6	ZB5 AV04
	yellow	XB5 AVB5	XB5 AVG5	XB5 AVM5	XB5 AV65	ZB5 AV6	ZB5 AV05
	blue	XB5 AVB6	XB5 AVG6	XB5 AVM6	–	–	–



Illuminated pushbuttons and selector switches

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



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 40			IP 66			
Light source	Integral LED			Integral LED			
	Products	Complete			Complete		
Supply voltage		24 V AC/DC	48...120 V AC	230...240 V AC	24 V AC/DC	48...120 V AC	230...240 V AC
References	green N/C + N/O	–	–	–	XB5 AK123B5	XB5 AK123G5	XB5 AK123M5
	red N/C + N/O	–	–	–	XB5 AK124B5	XB5 AK124G5	XB5 AK124M5
	yellow N/C + N/O	XB5 AW84B5	XB5 AW84G5	XB5 AW84M5	XB5 AK125B5	XB5 AK125G5	XB5 AK125M5

(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	–	–	–	XAL D134
		N/C	O	–	XAL D112	XAL D115	–
							Black handle
							Key n° 455 (key withdrawal LH pos.)

(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: 68 x 106 x 62; 3-way control stations: 68 x 136 x 87					
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 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 red pilot light with integral LED (1)		1 flush black p/b	1 flush black p/b	1 flush black p/b
References		N/O + N/C	I - O	XAL D213	24 V AC/DC	XAL D363B	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				
Type of head		Flush or projecting push		
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 ² to 1 x 1.5 mm ²		
Type of push		Flush, spring return	Flush, push and push-to-release	
References (10)*	black	 N/O	XB7 EA21P	XB7 EH21P
		 C/O	XB7 EA25P	XB7 EH25P
	green	 N/O	XB7 EA31P	XB7 EH31P
		 C/O	XB7 EA35P	XB7 EH35P
	red	 N/C	XB7 EA42P	–
		 C/O	XB7 EA45P	–
yellow	 N/O	XB7 EA51P	–	
Type of push		Flush, spring return	Projecting, spring return	
References	green	 N/O	XB7 EA3131P	–
	red	 N/C	–	XB7 EL4232P
	white	 N/O + C/O	XB7 EA11341P	–
	black	 N/O + C/O	XB7 EA21341	–

(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		2 positions stay put 	3 positions stay put 	2 positions stay put 	3 positions stay put 
References (10)*	N/O	XB7 ED21P	–	XB7 EG21P	–
	N/C + N/O	XB7 ED25P	–	–	–
	2 N/O	–	XB7 ED33P	–	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	XB7 ES542P	XB7 ES142P
	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 ² to 1 x 1.5 mm ²	
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	XB7 EW33●1P (1)	XB7 EW3361P
	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	XB7 EH03●1P (1)	XB7 EH0361P
	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 	XB7 EV01●P (1)	XB7 EV61P	XB7 EV71P
	green 	XB7 EV03●P (1)	XB7 EV63P	XB7 EV73P
	red 	XB7 EV04●P (1)	XB7 EV64P	XB7 EV74P
	yellow 	XB7 EV05●P (1)	XB7 EV65P	XB7 EV75P
	blue 	XB7 EV06●P (1)	XB7 EV66P	XB7 EV76P
	orange 	XB7 EV08●P (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		Flush	Projecting	Projecting (high guard)
Type of push				
Colour of push		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	9001KR1UH13	9001KR3UH13	9001KR2UH13
	N/O	9001KR1UH5	9001KR3UH5	9001KR2UH5



Mushroom head Emergency stop pushbuttons, latching (1)		Spring return	Push-pull		
Type of push		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	9001KR24RH13	9001KR25RH13	9001KR9R94H13	9001KR9R20H13
	N/C	9001KR24RH6	9001KR25RH6	9001KR9RH6	9001KR9R20H6

(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		Long black handle	Key, n° 455		
Type of operator					
Number and type of positions	positions (2)	3 - spring return	2 - stay put	2 - spring return	3 - stay put
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	–	9001KS11FBH5	9001KS34FBH5	–
	C/O	9001KS53FBH1	–	–	9001KS43FBH1
					9001KS11K1RH1

(2) The symbol indicates key withdrawal position.

Light functions



Pilot lights

Type of head		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 ●	9001KP35LGG9	9001KP36LGG9	9001KP38LGG9	9001KP7G9
	red ●	9001KP35LRR9	9001KP36LRR9	9001KP38LRR9	9001KP7R9
	yellow ●	9001KP35LYA9	9001KP36LYA9	9001KP38LYA9	9001KP7A9



Illuminated pushbuttons, spring return

Type of head		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	9001K3L35LGGH13	9001K3L36LGGH13	9001K3L38LGGH13	9001K2L7RH13
	red ● C/O	9001K3L35LRRH13	9001K3L36LRRH13	9001K3L38LRRH13	9001K2L7GH13
	yellow ● C/O	9001K3L35LYAH13	9001K3L36LYAH13	9001K3L38LYAH13	9001K2L7AH13



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)
Type of head		24 V AC/DC	48 V AC/DC	120 V AC/DC	230 V AC/DC
	References	red ● C/O	9001KR9P35RH13	9001KR9P36RH13	9001KR9P38RH13
Type of head		3 position, push-pull (pull: spring return, centre: stay put, push: spring return)			
References	red ● N/C + N/C late break	9001KR8P35RH25	9001KR8P36RH25	9001KR8P38RH25	9001KR8P7RH25



Pushbuttons, spring return

Type of push		Flush	Projecting	Projecting (high guard)
Colour of push		Multi-colour (set of 7 clip-in coloured caps)		
Degree of protection		IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 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	9001SKR1UH13	9001SKR3UH13	9001SKR2UH13
	N/O	9001SKR1UH5	9001SKR3UH5	9001SKR2UH5



Selector switches

Type of operator		Long black handle			
	positions	3 - spring return	2 - stay put	2 - spring return	3 - stay put
Number and type of positions					
Degree of protection		IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 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	–	9001SKS11FBH5	9001SKS34FBH5	–
	C/O	9001SKS53FBH1	–	–	9001SKS43FBH1



Pilot lights

Type of head		Smooth lens cap			
Degree of protection		IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 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	green	24 V AC/DC	48 V AC/DC	120 V AC/DC	230 V AC
	red	9001SKP35LGG9	9001SKP36LGG9	9001SKP38LGG9	9001SKP7G9
	yellow	9001SKP35LRR9	9001SKP36LRR9	9001SKP38LRR9	9001SKP7R9
		9001SKP35LYA9	9001SKP36LYA9	9001SKP38LYA9	9001SKP7A9

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



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

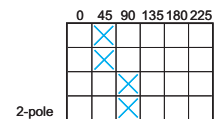
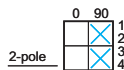


Legends

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 (°)

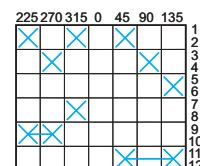
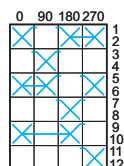
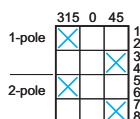


Cam switches, K1 / K2 series

Function	Switches	ON-OFF switches	Stepping switches
	45° switching angle	90° switching angle	with "0" position
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	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	K1B 002ALH K2B 002ALH	K1B 1002HLH K2B 1002HLH
	Plastic mounting plate for Ø 22 mm hole	K1B 002ACH K2B 002ACH	K1B 1002HCH K2B 1002HCH
		K1D 012QLH K2D 012QLH	K1D 012QCH K2D 012QCH



positions (°)



Cam switches, K1 / K2 series

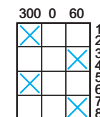
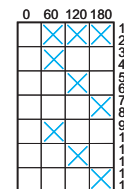
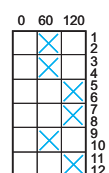
Function	Changeover switches	Ammeter switches	Voltmeter switches
Degree of protection front face	IP 65 (1)	IP 65 (1)	IP 65 (1)
Conventional thermal current (Ith)	12 A 20 A	12 A 20 A	12 A 20 A
Rated insulation voltage (Ui) conforming to IEC60947-1	690 V	690 V	690 V
Number of positions	2 + "0" position	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	K1D 002ULH K2D 002ULH	K1F 003MLH to be compiled *
	Plastic mounting plate for Ø 22 mm hole	K1D 002UCH K2D 002UCH	K1F 003MCH to be compiled *
		K1F 027MLH to be compiled *	K1F 027MCH 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 (°)



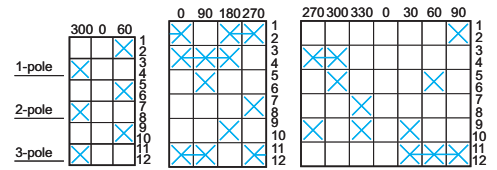
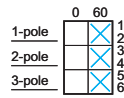
Cam switches with key operated lock, K1 series

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	K1F 022QZ2 K1F 022QZ4	K1G 043RZ2 K1G 043RZ4
		K1D 002UZ2 K1D 002UZ4	

10 to 150 A ratings



positions (°)



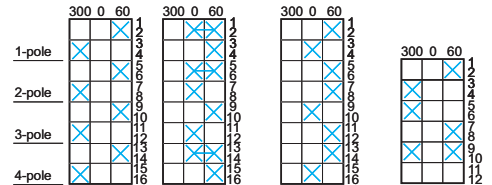
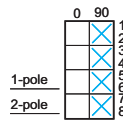
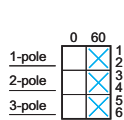
Cam switches, K10 series							
Function	Switches			Changeover switches		Ammeter switches	Voltmeter switches
	60° switching angle			with "0" position		IP 65	IP 65
Degree of protection front face	IP 65			IP 65		IP 65	IP 65
Conventional thermal current (I_{th})	10 A			10 A		10 A	10 A
Rated insulation voltage (U_i) 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	
		ON-OFF	with "0" position	star-delta	2-speed		
Degree of protection front face	IP 40	IP 40	IP 40	IP 40	IP 40	IP 40	
Conventional thermal current (I_{th})	32 A	32 A	32 A	32 A	32 A	32 A	
Rated insulation voltage (U_i) 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	
Light source		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)
Degree of protection		IP 66			
Beacon references (2)	12...250 V AC/DC	XVBL3●	–	–	–
	24 V AC/DC	–	XVBL0B●	XVBL1B●	XVBL6B●
	120 V AC	–	XVBL0G●	XVBL1G●	XVBL6G●
	230 V AC	–	XVBL0M●	XVBL1M●	XVBL6M●



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)
Light source		–	Incandescent BA 15d bulb, 10 W max. (not included)	Integral protected LED	Integral protected LED	"Flash" discharge tube 5 J (1)	–
Degree of protection		IP 66					–
Base unit references	with cover	XVBC21 (4)	–	–	–	–	–
	without cover	XVBC07 (5)	–	–	–	–	–
Lens unit references (2)	12... 230 V AC/DC	–	XVBC3●	–	–	–	–
	24 V AC/DC	–	–	XVBC2B●	XVBC5B●	XVBC6B●	–
	120 V AC	–	–	XVBC2G●	XVBC5G●	XVBC6G●	–
	230 V AC	–	–	XVBC2M●	XVBC5M●	XVBC6M●	–
Audible unit references	12...48 V AC/DC	–	–	–	–	–	XVBC9B
unidirectional	120...230 V AC	–	–	–	–	–	XVBC9M

(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)
Light source		–	Incandescent BA 15d bulb, 7 W max. (not included)	"Flash" discharge tube 0.3 J	"Flash" discharge tube 0.6 J	–
Degree of protection		IP 65				–
Base unit	with cover	XVPC21	–	–	–	–
References (2)	250 V max.	–	XVPC3●	–	–	–
	24 V AC/DC (flash) - 24 V DC (buzzer)	–	–	XVPC6B●	–	XVPC09B
	120 V AC	–	–	–	XVPC6G●	XVPC09G
	230 V AC	–	–	–	XVPC6M●	XVPC09M

(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	XVMB2RAGS	XVMB1R6AGS	XVMB2R6AGS
	120 V AC/DC (bulb) - 120 V AC (LED)	XVMG1RGS	XVMG2RGS	XVMG1RAGS	XVMG2RAGS	XVMG1R6AGS	XVMG2R6AGS
	230 V AC/DC (bulb) - 230 V AC (LED)	XVMM1RGS	XVMM2RGS	XVMM1RAGS	XVMM2RAGS	XVMM1R6AGS	XVMM2R6AGS

(1) Indicator banks XVM are also available as separate components for customised assembly by the user: please refer to 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	-	XVDLS6B●
	120 V AC	-	XVDLS6G●
	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	"Flash" discharge tube, 1 J
Degree of protection		IP 42/IP 54 (with sealing kit)		
Beacon references (5)	24... 240 V AC/DC	XVEL3●	-	
	24 V AC/DC	-	XVEL2B●	XVEL6B●
	120 V AC	-	XVEL2G●	XVEL6G●
	230 V AC	-	XVEL2M●	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●	XVEC6B●	XVEC9B
	120 V AC	-	-	XVEC2G●	XVEC5G●	XVEC6G●	XVEC9G
	230 V AC	-	-	XVEC2M●	XVEC5M●	XVEC6M●	XVEC9M

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

Application specific range

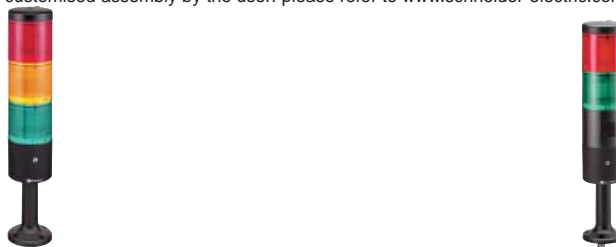
Ready to use for specific requirements



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.



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
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	XVDB2SGR
	230 V AC	XVDM1GAR	XVDM2GAR	–
			XVDB2GAR6	XVDB2SGR6
			–	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)
Degree of protection	IP 40			
Signalling colours	Clear - Green - Orange - Red		Green - Orange - Red	
Indicator bank references	24 V AC/DC	XVDB2CGAR		XVDB1SGAR
	230 V AC	–		XVDB2SGAR
			–	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.

(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			
References (3)	24 V AC/DC	XVR1B9●	XVR1B0●	XVSB1
	120 V AC	–	XVR1G0●	XVSG1
	230 V AC	–	XVR1M0●	XVSM1
				XVSB2
				XVSG2
				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	
Light source		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
References		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			
Light source		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
References		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		
Description		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	–
Diameter (mm)		Ø 25	Ø 25	Ø 20	Ø 20	Ø 20	Ø 20	–
Support tubes		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	–	–	–	–	–	–
Fixing plates, black		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).

Pendant control stations for control circuits

Ready to use



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 ² or 2 x 1.5 mm ²				
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	

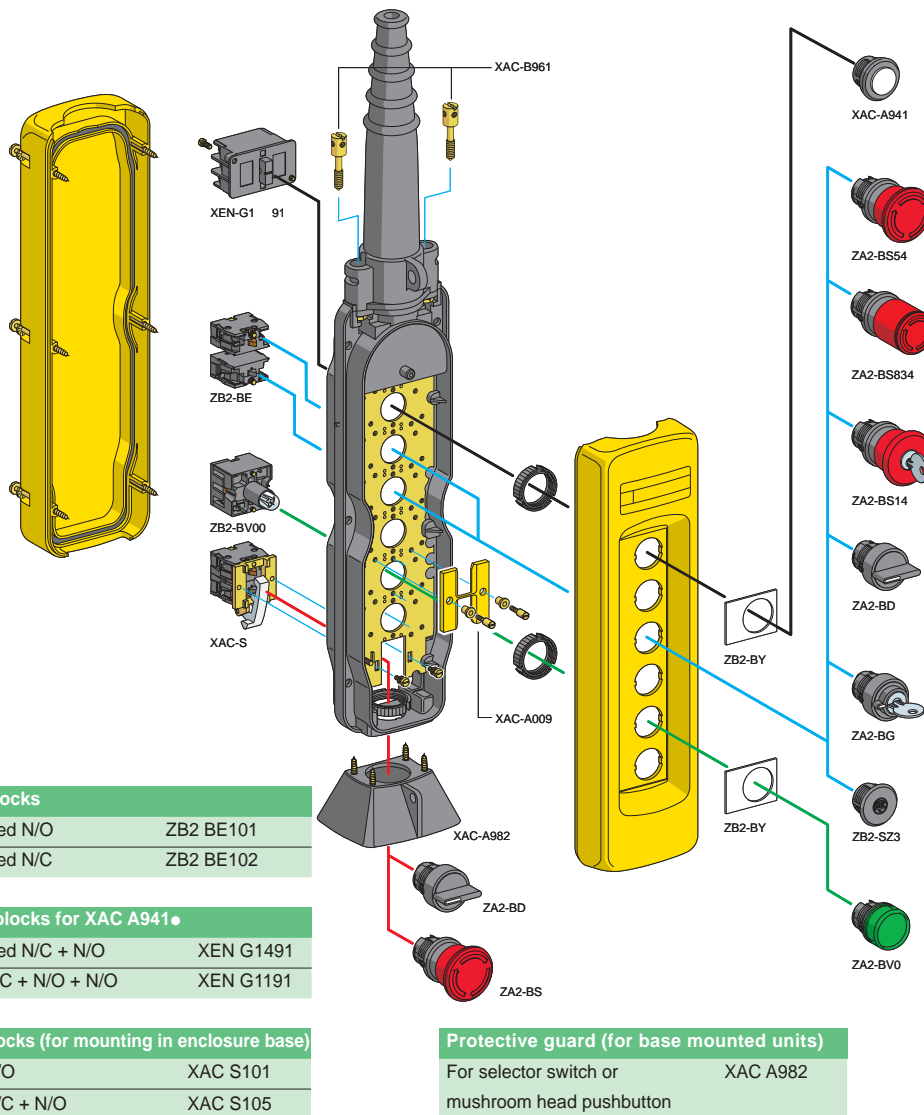
Stations for user assembly



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

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.

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Owing to changes in standards and equipment, the characteristics given in the text and images in this document are not binding until they have been confirmed with us.
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