

Harmony

Tried-and-tested throughout the entire world and characterised by extreme robustness, groomed ergonomics and maximum installation simplicity, the Harmony control and signalling ranges provide the ideal solution for your varying application requirements due to an offer that is unmatched in its extensiveness.



2

Rely on the expertise and know-how of the worldwide leader in operator dialogue components. Our extensive ranges of Harmony and Magelis Human/Machine Interfaces guarantee simple integration and efficient configuration of your dialogue applications.



HMI Magelis

A complete, robust and scalable HMI offer from Panels to Industrial PCs, to answer your needs in a wide range of applications. Thanks to its added value capacities, the Magelis range, ensures the availability of your installation.

2 | Operator dialog



WARNING

This document is a selection of the top selling products.

2

Control and signalling units

Pushbuttons, switches, pilot lights & control stations

Ø 16, plastic bezel, Harmony XB6	2/2 to 2/4
Ø 8 & 12, pilot lights, Harmony XVL	2/5
Ø 22, metal bezel, Harmony XB4 / Control stations Harmony XAP	2/6 to 2/9
Ø 22, plastic bezel, Harmony XB5 / Control stations Harmony XAL	2/10 to 2/13
Ø 22, plastic bezel - Monolithic, Harmony XB7	2/14 to 2/15
Ø 30, metal and plastic bezel, Harmony 9001K, 9001SK	2/16 to 2/19

Cam switches

Harmony K series	2/20 to 2/21
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Signalling solutions

Ø 40, 60, 100 mm monolithic tower lights, Harmony XVC	2/22
Ø 45 mm monolithic beacons and tower lights, accessories, Harmony XVDLS / XVC	2/23
Ø 70 mm modular tower lights (IP 66), Harmony XVB	2/24
Ø 70 mm modular tower lights (up to IP 54), Harmony XVE	2/25
Ø 45, 50 mm modular tower lights (up to IP 54), Harmony XVM / XVP	2/26
Modular tower lights accessories, Harmony XV	2/27
Ø 84, 106, 120, 130 mm rotating mirror beacons, Harmony XVR	2/28
Rotating mirrors accessories and sound solutions, Harmony XVR / XVS	2/29

Components for hoisting applications

Pendant control stations, Harmony XAC	2/30 to 2/31
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Human/Machine Interfaces

Display units, terminals, Industrial PCs

Small Panels, Magelis STO/STU, XBT N / R / RT	2/32 to 2/34
Advanced Panels, Magelis XBT GT, GK, GTW, GH	2/35 to 2/39
HMI Controllers, Compact Magelis XBT GC	2/40
PC Panels, Magelis Smart, Magelis Compact iPC	2/41
Embedded Box and PC Box, Magelis Smart BOX, Compact BOX & Flex PC BOX	2/42
Front Panels, for Flex PC BOX	2/43
Industrial Display, Magelis iDisplay	2/43

Configuration software

For Magelis XBT N / R / RT, Vijeo Designer Lite	2/44
For Magelis STO/STU, XBT GT, GK, GTW, GH, Magelis Smart, Compact iPC, PC BOX, Vijeo Designer	2/45

Dialog operator for Explosive atmospheres

See Chapter 10 “Explosive atmospheres”

(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



2

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	Ø 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		Ø 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/ISO 13850: 2006)			
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) Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850: 2006, to Machinery Directive 98/37/EC and to standard EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

Pushbuttons, switches and pilot lights Ø 16 with plastic bezel

Contact functions and light functions with integral LED



2

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)		$\varnothing 16.2^{+0.2}_0$	
Dimensions (mm)		24 x 18 with rectangular head, 18 x 18 with square or circular head	
Connection (3)		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 stay put 	2 positions stay put  2 positions spring return to centre 
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 stay put 	3 positions stay put  3 positions spring return to centre 
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 stay put 	2 positions stay put  2 positions spring return to centre 
References		N/C + N/O XB6 DGC5B	ZB6 Z5B ZB6 DGC ZB6 Z5B ZB6 DGB
Number and type of positions		3 positions stay put 	3 positions stay put  3 positions spring return to centre 
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 stay put 	3 positions stay put 
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 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

2

(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.

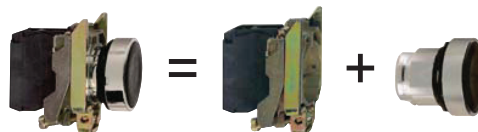
Sub-assemblies & accessories for Ø 16 plastic bezel control and signalling units



Sub-assemblies		Bodies for pushbuttons and selector switches			Bodies for pilot lights			
Rated operational characteristics, AC-15: Ue = 240 V and Ie = 1.5 A or Ue = 120 V and Ie = 3 A					Consumption			
Positive operation of contacts conforming to IEC/EN 60947-5-1: N/C contacts with positive opening operation, positive opening force 20 N					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



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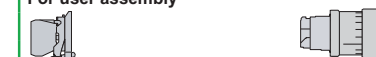
Pushbuttons, spring return

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)		43					
Connection (1)		Screw clamp terminals					
Type of push		Flush			Flush, booted		
Unmarked		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					
With international marking		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			Mushroom head, Ø 40 mm		
Unmarked		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			Triple-headed pushbuttons		
Degree of protection		IP 66 - IP 69K			IP 66 - IP 69K		
With international marking		Complete (A)	For user assembly		Complete (B)	For user assembly	
References							
	(A) "N/C" + "N/O"	XB4 BL73415	ZB4 BZ105	ZB4 BL7341	–	–	–
	(B) "N/O" + "N/C" + "N/O"	–	–	–	XB4 BA711237	ZB4 BZ103 + ZBE 102	ZB4 BA71123

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



Ø 40 mm mushroom head Emergency stop pushbuttons (2)

				Trigger action (EN/ISO 13850: 2006)		
Type of push				Push-pull (N/C + N/O)		
Unmarked		Products		Complete	For user assembly	
References	red		N/C or N/C + N/O	XB4 BT845	ZB4 BZ105	ZB4 BT84
Type of push				Turn to release (N/C + N/O)		
References	red		N/C or N/C + N/O	XB4 BS8445	ZB4 BZ105	ZB4 BS844
Type of push				Key release (N/C + N/O)		
References	red		N/C or N/C + N/O	XB4 BS9445	ZB4 BZ105	ZB4 BS944

(2) Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850: 2006, to Machinery Directive 98/37/EC and to standard EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

Contact functions



Selector switches and key switches

Type of head		Chromium plated circular bezel			
Degree of protection		IP 66 / Nema 4X, 13 / Class I			
Mounting (mm)	panel cut-out	Ø 22.5 (22.4 ^{+0.4} ₀ 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	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



Type of operator		Key, n° 455			
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	—	—
References	black ● N/O + N/O	—	—	XB4 BG33	ZB4 BZ103 ZB4 BG3

Separate components



Electrical blocks

Single contact blocks		Screw clamp terminals	Spring clamp terminal
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	ZBE 1015
	N/C	ZBE 102	ZBE 1025

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

(2) The symbol  indicates key withdrawal position.

* sold in lots of



2

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	Ø 22.5 (22.4 ^{+0.4} ₀ recommended)					
		mounting centres	30 (horizontal) x 40 (vertical)					
Depth		below head	43					
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
	orange	 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 66 - IP 69K			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	–	–	XB4 BK123B5	XB4 BK123G5	XB4 BK123M5
	red	 N/C + N/O	–	–	XB4 BK124B5	XB4 BK124G5	XB4 BK124M5
	orange	 N/C + N/O	–	–	XB4 BK125B5	XB4 BK125G5	XB4 BK125M5
	White	 N/C + N/O	XB4 BW73731B5	XB4 BW73731G5	–	–	–

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

Separate components and accessories



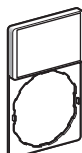
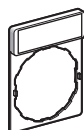
Electrical blocks (1)

	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			
References (5)*		To combine with heads for integral LED				For BA 9s bulb (not included) 250 V max., 2.4 W max.
	N/O ZBE 101	white	24 V AC/DC ZBV B1	48...120 V AC ZBV G1	230...240 V AC 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	
		orange	ZBV B5	ZBV G5	ZBV M5	
		blue	ZBV B6	ZBV G6	ZBV M6	

2



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					
	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

Ø 60 mm legend for mushroom head Emergency stop pushbutton

Background colour	yellow				
Marking	Blank	EMERGENCY STOP	ARRET D'URGENCE	NOT HALT	PARADA DE EMERGENCIA
References	ZBY 9140	ZBY 9330	ZBY 9130	ZBY 9230	ZBY 9430

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

* sold in lots of



2

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)		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			Mushroom head, Ø 40 mm			
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			Triple-headed pushbuttons			
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			Triple-headed pushbuttons			
Degree of protection		IP 66 - IP 69K			IP 66 - IP 69K			
With international marking	Products	Complete (A)	For user assembly		Complete (B)	For user assembly		
References	(A) N/C + N/O	XB5 AL73415	ZB5 AZ105	ZB5 AL7341	–	–	–	
	(B) N/O + N/C + N/O	–	–	–	XB5 AA711237	ZB5 AZ103 + ZBE 102	ZB5 AA71123	

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



Ø 40 mm mushroom head Emergency stop pushbuttons (2)

Type of push		Trigger action (EN/ISO 13850: 2006)		
Unmarked		Push-pull (N/C + N/O)		
Products		Complete	For user assembly	
References	red ● N/C or N/C + N/O	XB5 AT845	ZB5 AZ105	ZB5 AT84
Type of push		Turn to release (N/C + N/O)		
References	red ● N/C or N/C + N/O	XB5 AS8445	ZB5 AZ105	ZB5 AS844
Type of push		Key release (N/C + N/O)		
References	red ● N/C or N/C + N/O	XB5 AS9445	ZB5 AZ105	ZB5 AS944

(2) Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850: 2006, to Machinery Directive 98/37/EC and to standard EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

Contact functions



Selector switches and key switches

Type of head		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 operator		Handle			
Products		Complete	For user assembly		Complete
Number and type of positions		2 positions stay put	2 positions stay put		2 positions spring return to left
References	black ● N/O	XB5 AD21	ZB5 AZ101	ZB5 AD2	XB5 AD41
Number and type of positions		3 positions stay put	3 positions stay put		3 positions spring return to centre
References	black ● N/O + N/O	XB5 AD33	ZB5 AZ103	ZB5 AD3	XB5 AD53
Type of operator		Key, n° 455			
Number and type of positions (2)		2 positions stay put	2 positions stay put		2 positions stay put
References	black ● N/O	XB5 AG21	ZB5 AZ101	ZB5 AG2	XB5 AG41

(2) The symbol  indicates key withdrawal position.

Separate components and accessories

Electrical blocks (1)

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	ZBV6
	N/C	ZBE 102	green ●	ZBV B3	ZBV G3	ZBV M3	Colour provided by lens
			red ●	ZBV B4	ZBV G4	ZBV M4	
			orange ●	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						
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						

Ø 60 mm legend for mushroom head Emergency stop pushbutton

Background colour	yellow				
Marking	Blank	EMERGENCY STOP	ARRET D'URGENCE	NOT HALT	PARADA DE EMERGENCIA
References	ZBY 9140	ZBY 9330	ZBY 9130	ZBY 9230	ZBY 9430
Body/fixing collar		Fixing nut		Bezel tool	Plate
		for electrical block (contact or light)		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), spring clamp terminal.

* sold in lots of



2

Pilot lights

Type of head		Circular bezel			Smooth lens cap		
Degree of protection		IP 66 / Nema 4X, 13 / Class II			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)			30 (horizontal) x 40 (vertical)		
Depth		below head			43		
Connection (1)		Screw clamp terminals			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
	orange	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
	orange		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 66 - IP 69K			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
	orange	N/C + N/O	—	—	XB5 AK125B5	XB5 AK125G5	XB5 AK125M5
	white	N/C + N/O	XB5 AW73731B5	XB5 AW73731G5	XB5 AW73731M5	—	—

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

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	—
							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/ISO 13850: 2006)	Trigger action (EN/ISO 13850: 2006)
References		N/C	XAL K178
		N/C + N/C	XAL K178F
		N/C + N/O	XAL K178E
		N/C + N/C + N/O	XAL K178G
			XAL K188
			XAL K188F
			XAL K188E
			XAL K188G

(2) Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850: 2006, to Machinery Directive 98/37/EC and to standard EN/IEC 60947-5-5. Please consult your Regional Sales Office for a full explanation of these standards and directives.

(1) Empty enclosures:

Basic reference: **XAL D0●**, 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			2-way control stations: 68 x 106 x 62; 3-way control stations: 68 x 136 x 87					
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 red p/b	1 flush red pushbutton 1 red pilot light with integral LED		1 flush black p/b	1 flush red p/b	1 Ø 30 red mushroom head p/b			
								1 flush black p/b			
				24 V AC/DC	230 V AC						
References	N/O + N/C	I - O	XAL D213	XAL D363B	XAL D363M	—	—	—			
		Start - Stop	XAL D215	—	—	—	—	—			
	N/O + N/O		—	—	—	XAL D222	—	—			
	N/O + N/C + N/O		—	—	—	—	XAL D324	XAL D328			

Accessories		Standard contact blocks		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



2

Pushbuttons					
Type of head					
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 mm² to 1 x 1.5 mm²		
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 	3 positions 	2 positions 	3 positions 
		stay put	stay put	stay put	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 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) Mushroom head switching off mechanical latching pushbuttons conform to standard IEC 60364-5-53 and EN/IEC 60947-5-5. For mushroom trigger action and mechanical latching head Emergency stop pushbuttons conforming to standard EN/IEC 60204-1 and EN/ISO 13850: 2006, to Machinery directive 98/37/EC and standard EN/IEC 60947-5-5, use an Emergency stop type XB5 A●8●●● or XB5 AS9●●● from the Harmony® range. 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		
Degree of protection						circular		
Mounting (mm)			panel cut-out			IP 54, class II		
			mounting centres			Ø 22.4 (0 +0.1)		
Dimensions (mm)			Ø x Depth (below head)			30 (horizontal) x 40 (vertical)		
Connection (2)						Ø 29 x 41.5, (Ø 40 x 41.5 for Emergency stop)		
						Screw clamp terminals, 1 x 0.34 mm² to 1 x 1.5 mm²		
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



2

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, 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 pushbuttons, latching (1)			Emergency switching off		Emergency stop
Type of push			Push-pull Ø 41 mushroom head Ø 35 mushroom head		Turn-to-Release, trigger action Ø 40 red mushroom head
Degree of protection			IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II		IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class III
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●●)		57,2 x 44,5 (without legend plate), 100 x 100 ((with legend plate 9001KN8330) (2)
Depth below head (mm)			42		60
Connection			Screw clamp terminals		
References		–	–	–	9001KR16
		C/O	9001KR9R94H13	9001KR9R20H13	–
		N/C	9001KR9RH6	9001KR9R20H6	–
		2"N/O" + 2"N/C"	–	–	9001KR16H2
		"N/O"	–	–	9001KR16H13

(1) Mushroom head switching off mechanical latching pushbuttons conform to standard IEC 60364-5-53 and EN/IEC 60947-5-5. Mushroom trigger action and mechanical latching head Emergency stop pushbuttons conforming to standard EN/IEC 60204-1 and EN/ISO 13850: 2006, to Machinery directive 98/37/EC and standard EN/IEC 60947-5-5.
(2) For yellow circular Emergency Stop legend plates: see page 2/19



Selector switches and key switches

Type of operator		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)		Ø 31				
panel cut-out						
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

2



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)
References		24 V AC/DC	48 V AC/DC	120 V AC/DC	230 V AC/DC
		2 position, push-pull			
	red ● C/O	9001KR9P35RH13	9001KR9P36RH13	9001KR9P38RH13	9001KR9P7RH13
		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, switches and pilot lights Ø 30 with plastic bezel

Contact functions and light functions



2

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



Type	Selector switches			Mushroom head pushbuttons (1) Emergency stop
Type of operator	Long black handle			Turn-to-Release, trigger action
positions	2 - stay put	2 - spring return	3 - stay put	Ø 40 red mushroom head
Number and type of positions				
Degree of protection	IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 12 and 13 / Class II			IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 6, 12 and 13 / Class III
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●●)		57,2 x 44,5 (without legend plate), 100 x 100 ((with legend plate 9001KN8330) (2)
Depth below head (mm)	42			60
Connection	Screw clamp terminals			
References	–	–	–	9001SKR16
	N/O	9001SKS11FBH5	9001SKS34FBH5	9001SKR16H13
	C/O	–	9001SKS43FBH1	–
	2"N/O" + 2"N/C"	–	–	9001SKR16H2

(1) Mushroom trigger action and mechanical latching head Emergency stop pushbuttons conforming to standard EN/IEC 60204-1 and EN/ISO 13850: 2006, to Machinery directive 98/37/EC and standard EN/IEC 60947-5-5.

(2) For yellow circular Emergency Stop legend plates: see page 2/19



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)
			24 V AC/DC	48 V AC/DC	120 V AC/DC	230 V AC
References	green		9001SKP35LGG9	9001SKP36LGG9	9001SKP38LGG9	9001SKP7G9
	red		9001SKP35LRR9	9001SKP36LRR9	9001SKP38LRR9	9001SKP7R9
	yellow		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

2



Enclosures

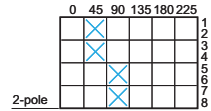
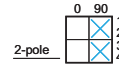
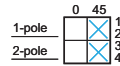
Type	Number of Ø 30 mm cut-outs	NEMA ratings	Reference
Aluminium	1	1, 3, 4, 6, 12, 13	9001KY1
	2	1, 3, 4, 6, 12, 13	9001KY2
	3	1, 3, 4, 6, 12, 13	9001KY3
	4	1, 3, 4, 6, 12, 13	9001KY4
Stainless steel	1	1, 3, 4, 4X, 13	9001KYSS1
	2	1, 3, 4, 4X, 13	9001KYSS2
	3	1, 3, 4, 4X, 13	9001KYSS3



Legends		44 x 43 mm	57 x 57 mm	Ø 60	Ø 90
Type	Colour of legend	Aluminium black background	Plastic white background	Plastic Yellow background	
Marking	Blank	9001KN200	9001KN100WP	9001KN9100	9001KN8100
	START	9001KN201	9001KN101WP	—	—
	STOP (red background)	9001KN202	9001KN102RP	—	—
	FORWARD	9001KN206	9001KN106WP	—	—
	REVERSE	9001KN207	9001KN107WP	—	—
	RESET	9001KN223	9001KN123WP	—	—
	PULL TO START/ PUSH TO STOP	9001KN379	9001KN179WP	—	—
	EMERGENCY STOP	—	—	9001KN9330	9001KN8330
	ARRET D'URGENCE	—	—	9001KN9330F	9001KN8330F
	PARADA DE EMERGENCIA	—	—	9001KN9330S	9001KN8330S



positions (°)

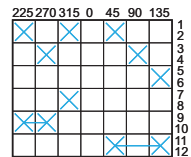
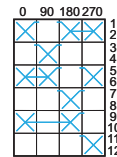
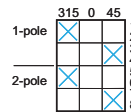


Cam switches, K1 / K2 series

Function		Switches 45° switching angle		ON-OFF switches 90° switching angle		Stepping switches with "0" position	
Degree of protection	front face	IP 65 (1)		IP 65 (1)		IP 65 (1)	
Conventional thermal current (I _{th})		12 A	20 A	12 A	20 A	12 A	20 A
Rated insulation voltage (U _i) 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	K1D 012QLH	K2D 012QLH
	Plastic mounting plate for Ø 22 mm hole	K1B 002ACH	K2B 002ACH	K1B 1002HCH	K2B 1002HCH	K1D 012QCH	K2D 012QCH



positions (°)



Cam switches, K1 / K2 series

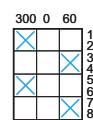
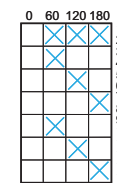
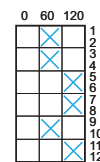
Function		Changeover switches		Ammeter switches		Voltmeter switches	
Degree of protection front face		IP 65 (1)		IP 65 (1)		IP 65 (1)	
Conventional thermal current (I _{th})		12 A	20 A	12 A	20 A	12 A	20 A
Rated insulation voltage (U _i) conforming to IEC60947-1		690 V		690 V		690 V	
Number of positions		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 *	K1F 027MLH	to be compiled *
	Plastic mounting plate for Ø 22 mm hole	K1D 002UCH	K2D 002UCH	K1F 003MCH	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 (I _{th})	12 A	12 A	12 A
Rated insulation voltage (U _i) 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 (°)

	0	60	1
1-pole			2
2-pole			3
3-pole			4
			5
			6

	300	0	60	1
1-pole				2
				3
				4
				5
				6
				7
				8
				9
				10
				11
				12

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 (°)

	0	60	1
1-pole			2
2-pole			3
3-pole			4
			5
			6

	300	0	60	1
1-pole				2
				3
				4
				5
				6
				7
				8
				9
				10
				11
				12

Cam switches, K30 series							
Function	Switches	Switches ON-OFF		Changeover with "0" position	Starting star-delta	Starting 2-speed	Reversing
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	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.
References (5)*		KZ 65	KZ 66
			with 45 x 45 mm front plate multifixing
			KZ 73

* sold in lots of



2

Ø 40 mm / Up to IP54

Complete, pre-wired tower lights		Steady light			Steady / Flashing light ⁽¹⁾	
Light source (included)		LEDs			LEDs	
Base mount		Base mounting	Support tube mounting, 17 mm		Support tube mounting, 17 mm	
Buzzer		Without buzzer			With buzzer + flashing light	
Degree of protection		up to IP54			up to IP54	
Voltage		24V AC/DC	24V AC/DC	100-240V AC	24V AC/DC	100 - 240V AC
References (2)	Red	XVC4B1K	XVC4B1	XVC4M1	XVC4B15S	XVC4M15S
	Red / orange	XVC4B2K	XVC4B2	XVC4M2	XVC4B25S	XVC4M25S
	Red / Orange / green	XVC4B3K	XVC4B3	XVC4M3	XVC4B35S	XVC4M35S
	red / orange / green / blue	XVC4B4K	XVC4B4	XVC4M4	XVC4B45S	XVC4M45S
	red / orange / green / blue / Clear	XVC4B5K	XVC4B5	XVC4M5	XVC4B55S	XVC4M55S

Ø 60 mm / Up to IP54

Complete, pre-wired tower lights		Steady light			Steady / Flashing light ⁽¹⁾		
Light source (included)		LEDs			LEDs		
Base mount		Base mounting	Support tube mounting, 22 mm		Support tube mounting, 22 mm		Base mounting
Buzzer		Without buzzer			With buzzer + flashing light		
Degree of protection		up to IP54			up to IP54		
Voltage		24V AC/DC	24V AC/DC	100-240V AC	24V AC/DC	100 - 240V AC	
References (2)	Red	XVC6B1K	XVC6B1	XVC6M1 ⁽³⁾	XVC6B15S ⁽³⁾	XVC6M15S	XVC6M15SK
	Red / orange	XVC6B2K	XVC6B2	XVC6M2 ⁽³⁾	XVC6B25S ⁽³⁾	XVC6M25S	XVC6M25SK
	Red / Orange / green	XVC6B3K	XVC6B3	XVC6M3 ⁽³⁾	XVC6B35S ⁽³⁾	XVC6M35S	XVC6M35SK
	red / orange / green / blue	XVC6B4K	XVC6B4	XVC6M4 ⁽³⁾	XVC6B45S ⁽³⁾	XVC6M45S	XVC6M45SK
	red / orange / green / blue / Clear	XVC6B5K	XVC6B5	XVC6M5 ⁽³⁾	XVC6B55S ⁽³⁾	XVC6M55S	XVC6M55SK

(3) To order products for base mounting, add the letter **K** to the end of the reference (ex. XVC6M1K)

Ø 100 mm / Up to IP54

Complete, pre-wired tower lights		Steady / Flashing light ⁽¹⁾					
Light source (included)		LEDs					
Base mount		Base mounting					
Buzzer		Without buzzer		With buzzer + flashing light			
Degree of protection		up to IP54		up to IP54			
Voltage		24V DC	100-240V AC	24V DC	100-240V AC	24V DC	100 - 240V AC
References (2)	Red	XVC1B1K	XVC1M1K	XVC1B1SK	XVC1M1SK	XVC1B1HK	XVC1M1HK
	Red / orange	XVC1B2K	XVC1M2K	XVC1B2SK	XVC1M2SK	XVC1B2HK	XVC1M2HK
	Red / Orange / green	XVC1B3K	XVC1M3K	XVC1B3SK	XVC1M3SK	XVC1B3HK	XVC1M3HK
	red / orange / green / blue	XVC1B4K	XVC1M4K	XVC1B4SK	XVC1M4SK	-	-
	red / orange / green / blue / Clear	XVC1B5K	XVC1M5K	XVC1B5SK	XVC1M5SK	-	-

(1) Flashing function can be simply selected/programmed by wiring

(2) The colours are listed in the same order as the mounting order of the illuminated units (from top to bottom)

Ø 45 mm / IP40



Illuminated beacons XVDLS		Steady light	Flashing light
Light source		Incandescent BA 15d bulb, 5 W max. (not included)	"Flash" discharge tube, 0.5 J
Degree of protection		IP 40	
References (1)	24...230 V AC/DC	XVDLS3●	–
	24 V AC/DC	–	XVDLS6B●
	120 V AC	–	XVDLS6G●
	230 V AC	–	XVDLS6M●

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

Accessories

XVDLS

Incandescent bulbs, with BA 15d base	Beacons XVDLS		
Description	24 V, 4 W	120 V, 5 W	230 V, 5 W
References	DL1BEBS	DL1BEGS	DL1BEMS



XVC4 / XVC6

Mounting accessories		Tower lights Ø 40 mm, XVC4			Tower lights Ø 60 mm, XVC6		
Description		Support tube mounting			Support tube mounting	Base mounting	Support tube mounting
Diameter (mm)		Ø 90	Ø 84	–	Ø 100	Ø 84	–
For use with		–	–	–	XVC6●●and XVC6●●5S	XVC6●●K and XVC6●●5SK	XVC6B●●and XVC6B●●5S, XVC6M●●and XVC6M●●5S
Height to be added (mm)		32	24,5	82	30	21,6	82
References	Metal fixing plate	XVCZ11	–	–	XVCZ02	XVCZ12	–
	Plastic fixing plate	–	XVCZ01	–	–	–	–
	Wall mounting bracket	–	–	XVCZ31	–	–	XVCZ32



XVC1

Mounting accessories		Tower lights Ø 100 mm, XVC1			
Description		Vertical support			
Diameter (mm)		Ø 140	Ø 140	–	–
For use with		XVC1●●K and XVC1●●SK	XVC1●●HK (with siren)	XVC1●●K and XVC1●●SK	XVC1●●HK (with siren)
Height to be added (mm)		300	306	–	–
References	Metal fixing plate (2)	XVCZ13	XVCZ14	–	–
	Metal fixing bracket	–	–	XVCZ23	XVCZ24

(2) Chromium plated-steel extension tube



Ø 70 mm / Up to IP66

2

Illuminated beacons XVBL		Steady light		Flashing light	
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 (2)
Degree of protection		IP 66			
References (1)	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 / Up to IP66

Tower lights XVBC comprising 2 to 5 signalling units (3)		Base units	Steady light		Flashing light	"Flash" light	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 (2)	–
Degree of protection		IP 66					
Base unit references	with cover	XVBC21 (4)	–	–	–	–	–
	without cover	XVBC07 (5)	–	–	–	–	–
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
	120...230 V AC	–	–	–	–	–	XVBC9M

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

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

(3) A tower light comprises: 1 base unit + 1 to 5 signalling units maximum.

(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 70 mm / Up to IP54



Illuminated beacons XVEL		Steady light		Flashing light
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)		
References (1)	24... 240 V AC/DC	XVEL3●	–	
	24 V AC/DC	–	XVEL2B●	XVEL6B●
	120 V AC	–	XVEL2G●	XVEL6G●
	230 V AC	–	XVEL2M●	XVEL6M●

2

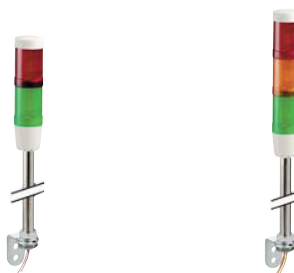
Ø 70 mm / Up to IP54



Indicator banks XVEC comprising 2 to 5 signalling units (2)		Base units	Steady light		Flashing light	"Flash" light	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 (1)	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

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

(2) A tower light comprises: 1 base unit + 1 to 5 signalling units maximum.



Ø 45 mm / IP42

2

Complete, pre-wired tower light XVM (1)		2 sig. units + integral buzzer (2)		3 signalling units + integral buzzer (2)			
		Steady light		Steady light		Steady light + "flash" (3)	
Light source (included)		Incandescent BA 15d bulb, 5 W max.	BA 15d "Super bright" LED	Incandescent BA 15d bulb, 5 W max.	BA 15d "Super bright" LED	Incandescent BA 15d bulb, 5 W max.	BA 15d "Super bright" LED
Degree of protection		IP 54					
Signalling colours		Red - Green		Red - Orange - Green			
References	24 V AC/DC	XVMB1RGS	XVMB2RGSSB	XVMB1RAGS	XVMB2RAGSSB	XVMB1R6AGS	XVMB2R6AGSSB
	120 V AC/DC (bulb) - 120 V AC (LED)	XVMG1RGS	XVMG2RGSSB	XVMG1RAGS	XVMG2RAGSSB	XVMG1R6AGS	XVMG2R6AGSSB
	230 V AC/DC (bulb) - 230 V AC (LED)	XVMM1RGS	XVMM2RGSSB	XVMM1RAGS	XVMM2RAGSSB	XVMM1R6AGS	XVMM2R6AGSSB

(1) Tower lights 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** at the end of the reference (example: XVMB2RGS becomes XVMB2RG).

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

Ø 50 mm / IP65



Tower lights XVP comprising 2 to 5 signalling units (4), black clamping ring (5)		Base unit	Steady or flashing light signalling	"Flash" light signalling		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 (6)		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

(4) A tower light comprises: 1 base unit + 1 to 5 signalling units maximum.

(5) 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.).

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



Bulbs		Beacons and tower lights XVB / XVP (1)			
Type of 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
References	12 V	DL1BEJ	DL1BLJ	–	–
	24 V	DL1BEB	DL1BLB	DL1BDB●	DL1BKB●
	48 V	DL1BEE	DL1BLE	–	–
	120 V	DL1BEG	DL1BLG	DL1BDG●	DL1BKG●
	230 V	DL1BEM	DL1BLM	DL1BDM●	DL1BKM●

(1) Tower lights 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 follow: 1 = white, 3 = green, 4 = red, 5 = orange, 6 = blue, 8 = yellow.



Bulbs		Tower lights XVM / XVE			
Type of light source		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	DL2EDB●	DL1EKB●	DL6BB
	120 V	DL1EDGS	DL2EDG●	DL1EKG●	DL6BG
	230 V	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 tower lights XVB / XVE		Tower lights XVP		Tower lights XVM	
Description		Aluminium tube with integral black plastic fixing base Ø 25	Plastic tube with integral black plastic fixing base Ø 25	Aluminium tube with integral black plastic fixing base Ø 20	Aluminium tube with steel fixing bracket Ø 20	Aluminium tube with integral cream plastic fixing base Ø 20	Aluminium tube with steel fixing bracket Ø 20
Diameter (mm) 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,	for vertical support	XVBC12		XVPC12 (4)		–	
	for horizontal support	XVBZ01		–		XVMZ06	

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



Ø 84 / 106 mm

2

Complete, pre-wired rotating mirror beacons		Ø 84 mm		Ø 106 mm	
Light source (included)		" Super bright " LEDs			
Base mount		3 x Ø 05			
Buzzer		Without buzzer			
Degree of protection		IP23 (IP 65 with accessories)		IP23 (IP 65 with accessories)	
Voltage		12V AC/DC	12V AC/DC	12V AC/DC	12V AC/DC
References	Red	XVR08J04	XVR08B04	XVR10J04	XVR10B04
	Orange	XVR08J05	XVR08B05	XVR10J05	XVR10B05
	Green	XVR08J03	XVR08B03	XVR10J03	XVR10B03
	Blue	XVR08J06	XVR08B06	XVR10J06	XVR10B06



Ø 120 mm

Complete, pre-wired rotating mirror beacons		Ø 120 mm			
Light source (included)		" Super bright " LEDs			
Base mount		3 x M5			
Buzzer		Without buzzer		With buzzer	
Degree of protection		IP23			
Voltage		12V AC/DC	24V AC/DC	12V AC/DC	24V AC/DC
References	Red	XVR12J04	XVR12B04	XVR12J04S	XVR12B04S
	Orange	XVR12J05	XVR12B05	XVR12J05S	XVR12B05S
	Green	XVR12J03	XVR12B03	XVR12J03S	XVR12B03S
	Blue	XVR12J06	XVR12B06	XVR12J06S	XVR12B06S



Ø 130 mm

Complete, pre-wired rotating mirror beacons		Ø 130 mm				
Light source (included)		" Super bright " LEDs				
Base mount		3 x Ø 09				
Buzzer		Without buzzer				
Degree of protection		IP66 - Resistant to vibration		IP66 and IP67		
Voltage		12V DC	24V DC	24V AC/DC	120V AC	230V AC
References	Red	XVR13J04	XVR13B04	XVR13B04L	XVR13G04L	XVR13M04L
	Orange	XVR13J05	XVR13B05	XVR13B05L	XVR13G05L	XVR13M05L



Accessories for rotating mirrors		Reflecting prism	Rubber base	Metal angle bracket	Metal fixing plate
To be used for/with		–	Increasing the IP degree	Horizontal support	Horizontal support
Height (mm)		–	–	–	300
References	Ø 84 mm	XVRZR1	XVRZ081	XVCZ23	–
	Ø 106 mm	XVRZR2	XVRZ082	XVCZ23	XVCZ13
	Ø 120 mm	XVRZR3	–	XVCZ23	XVCZ13
	Ø 130 mm	XVRZR3	–	XVR012L	–

Electronic alarms and multisound sirens



Sirens and electronic alarms		Sirens	Multisound sirens pre-wired	Electronic alarms Panel Mount DIN72		Electronic alarms Panel Mount DIN96	
Sound level		106 dB	105 dB	90 dB		96 dB	
Tones		2	43	16		16	
Channels		–	8	4		4	
Degree of protection		IP 65	IP53	IP 54		IP 54	
Colors		White	White	Black	White	Black	White
References	12/24V AC/DC	XVS10BMW	–	XVS72BMB● (1)	XVS72BMW● (1)	XVS96BMB● (1)	XVS96BMW● (1)
	12/24V DC	–	XVS14BMW	–	–	–	–
	120V AC	XVS10GMW	XVS14GMW	–	–	–	–
	230V AC	XVS10MMW	XVS14MMW	–	–	–	–

(1) To obtain a complete reference, replace the ● by the letter as follow: P = PNP, N = NPN (ex. XVS72BMBP)



2

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		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 BS834)	
Number of operators		mechanically interlocked		2	
Emergency stop		without		ZA2 BS834	
References		XAC A201		XAC A2014	
				XAC A207	
				XAC A2074	



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 BS834)		80 x 440 x 70 (x 90 with ZA2 BS844)	
Number of operators	mechanically interlocked between pairs	2		4	
	Emergency stop	without	ZA2 BS834	without	ZA2 BS844
References		XAC A271	XAC A2714	XAC A471	XAC A4714



For control of single-speed motors				 + I / O	
Dimensions (mm)	W x H x D	80 x 500 x 70 (x 90 with ZA2 BS844)		80 x 560 x 70	
Number of operators	mechanically interlocked between pairs	6		8	
	Emergency stop	without	ZA2 BS844	without	
References		XAC A671	XAC A6714	XAC A871	

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

