

Harmony

Harmony control and signalling products are characterised by their extreme ruggedness, ergonomic design and ease of use, all of which have contributed to their successful application worldwide. The unrivalled depth of the Harmony range provides solutions to meet the diverse needs of your applications.



From the humble pushbutton to the most complex operator dialogue terminal, Schneider Electric is the world's leading supplier of human-machine interface components. Open-ended and highly innovative, the Harmony and Magelis ranges are synonymous with seamless integration and effective configuration solutions in dialogue applications.



HMI Magelis

A comprehensive, rugged, open-ended interface and industrial PC offer to meet your requirements in a wide variety of applications. With its extensive capabilities, Magelis ensures the dependability of your installations.

1 Operator dialog

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This document is a selection
of the top selling products.

For more information:
<http://www.schneider-electric.com>

Control and signalling units

Pushbuttons, switches, pilot lights and control stations

Ø 16, plastic bezel, Harmony XB6	1/2 to 1/4
Ø 8 and 12, pilot lights, Harmony XVL	1/5
Ø 22, metal bezel, Harmony XB4 / Control stations Harmony XAP	1/6 to 1/9
Ø 22, plastic bezel, Harmony XB5 / Control stations Harmony XAL	1/10 to 1/13
Ø 22, plastic bezel, wireless and batteryless, Harmony XB5R	1/14 to 1/15
Ø 22, plastic bezel - Monolithic, Harmony XB7	1/16 to 1/17
Ø 30, metal and plastic bezel, Harmony 9001K, 9001SK	1/18 to 1/20

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Harmony K series	1/21 to 1/22
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Ø 45 mm monolithic beacons and tower lights, accessories, Harmony XVDLS / XVC	1/24
Ø 70 mm modular tower lights (IP 66), Harmony XVB	1/25
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(1):

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



Illuminated pushbuttons

Type of head			Flush push		
Shape of head			rectangular (2)		
Degree of protection			IP 65 / Nema 4, 4X, 13 / Class II		
Mounting (mm)			Ø 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 push			Spring return		
			Complete products 12 ... 24 V AC/DC	Products for user assembly	
References					
white	●	NO	XB6DW1B1B	ZB6E●1B (1)	ZB6Z1B
		NO + NC	XB6DW1B5B	ZB6E●1B (1)	ZB6Z5B
	●	NO	XB6DW3B1B	ZB6E●3B (1)	ZB6Z1B
		NO + NC	XB6DW3B5B	ZB6E●3B (1)	ZB6Z5B
	●	NC	XB6DW4B2B	ZB6E●4B (1)	ZB6Z2B
		NO + NC	XB6DW4B5B	ZB6E●4B (1)	ZB6Z5B
yellow	●	NO	—	ZB6E●5B (1)	ZB6Z1B
	●	NO + NC	XB6DW5B5B	ZB6E●5B (1)	ZB6Z5B
Type of push			Latching		
References					
white	●	NO	—	ZB6E●1B (1)	ZB6Z1B
		NO + NC	XB6DF1B5B	ZB6E●1B (1)	ZB6Z5B
green	●	NO	XB6DF3B1B	ZB6E●3B (1)	ZB6Z1B
		NO + NC	XB6DF3B5B	ZB6E●3B (1)	ZB6Z5B
red	●	NC	XB6DF4B2B	ZB6E●4B (1)	ZB6Z2B
		NO + NC	XB6DF4B5B	ZB6E●4B (1)	ZB6Z5B
yellow	●	NO	—	ZB6E●5B (1)	ZB6Z1B
		NO + NC	—	ZB6E●5B (1)	ZB6Z5B



Pilot lights

Type of head			Smooth lens cap		
Shape of head			rectangular (2)		
			Complete products 12 ... 24 V AC/DC	Products for user assembly	
References					
white	●	NO	XB6DV1BB	ZB6E●1B (1)	ZB6DV1
		NO	XB6DV3BB	ZB6E●3B (1)	ZB6DV3
		NO	XB6DV4BB	ZB6E●4B (1)	ZB6DV4
		NO	XB6DV5BB	ZB6E●5B (1)	ZB6DV5
		NO	—	ZB6E●6B (1)	ZB6DV6

(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** (XB6DW1B1B becomes XB6CW1B1B).

For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6DW1B1B becomes XB6AW1B1B).

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

Contact functions

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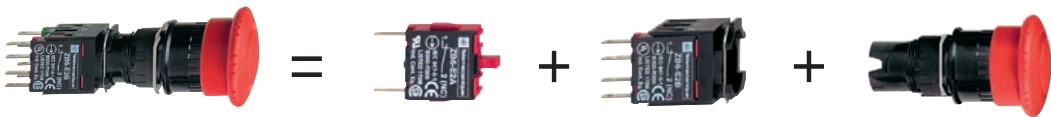
Pushbuttons

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	 NO	XB6DA11B	ZB6Z1B	ZB6DA1
		NO + NC	XB6DA15B	ZB6Z5B	ZB6DA1
	black	 NO	–	ZB6Z1B	ZB6DA2
		NO + NC	XB6DA25B	ZB6Z5B	ZB6DA2
	green	 NO	XB6DA31B	ZB6Z2B	ZB6DA3
		NO + NC	XB6DA35B	ZB6Z5B	ZB6DA3
	red	 NO	–	ZB6Z1B	ZB6DA4
		NO + NC	XB6DA45B	ZB6Z5B	ZB6DA4

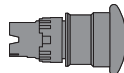
(1) For products with a square head, replace the letter **D** in the reference by the letter **C** (XB6DA11B becomes XB6CA11B).

For products with a circular head, replace the letter **D** in the reference by the letter **A** (XB6DA11B becomes XB6AA11B).

(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)			
Shape of head				cylindrical			
Type of push				Turn to release			
				Complete products	Products for user assembly		
							
References	red		2 NC + 1 NO	XB6AS8349B	ZB6E2B	ZB6Z5B	ZB6AS834
Type of push				Key release, 200			
References	red		2 NC + 1 NO	XB6AS9349B	ZB6E2B	ZB6Z5B	ZB6AS934

(3) Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850, to Machinery Directive 2006/42/EC and to standard EN/IEC 60947-5-5.



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	$\varnothing 16.2^{+0.2}_0$	
	mounting centres	24 x 18 with rectangular head, 18 x 18 with square or circular head	
Dimensions (mm)		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 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	NO	XB6DD221B	ZB6Z1B ZB6DD22
	NO + NC	XB6DD225B	ZB6Z5B ZB6DD22
Number and type of positions		3 positions stay put 	3 positions stay put 
		3 positions spring return to centre 	
References	NO	XB6DD235B	ZB6Z5B ZB6DD23
			ZB6Z5B ZB6DD25



Type of operator		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	NO + NC	XB6DGC5B	ZB6Z5B ZB6DGC
			ZB6Z5B ZB6DGB
Number and type of positions		3 positions stay put 	3 positions stay put 
		3 positions spring return to centre 	
References	NO + NC	XB6DGH5B	ZB6Z5B ZB6DGH
			ZB6Z5B ZB6DGS

(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 
		3 positions stay put 	
References	white ● NO + NC	ZB6E●1B (1) ZB6Z5B	ZB6DD02 ZB6DD03 ZB6YK1
	green ● NO + NC	ZB6E●3B (1) ZB6Z5B	ZB6DD02 ZB6DD03 ZB6YK3
	red ● NO + NC	ZB6E●4B (1) ZB6Z5B	ZB6DD02 ZB6DD03 ZB6YK4

(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 (XB6DD221B becomes XB6CD221B).

For products with a circular head, replace the letter D in the reference by the letter A (XB6DD221B becomes XB6AD221B).

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

(1):

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



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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
		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 10 x 34	Ø 16 x 45
Connection		Tags (3)		Tags (3)	Threaded connectors
References (1)	green ●	XVLA1●3		XVLA2●3	XVLA3●3
	red ●	XVLA1●4		XVLA2●4	XVLA3●4
	yellow ●	XVLA1●5		XVLA2●5	XVLA3●5
Tightening key		For Ø 8 mm pilot lights		For Ø 12 mm pilot lights	
References		XVLX08		XVLX12	

(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: XVLZ911 for pilot lights XVLA1●● and XVLA2●●; XVLZ912 for pilot lights XVLA3●●.

(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 Positive operation of contacts conforming to IEC/EN 60947-5-1: NC 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	NO	ZB6Z1B	ZB6E1B	White 	ZB6EB1B	ZB6EG1B	ZB6EM1B			
	NC	ZB6Z2B	ZB6E2B	Green 	ZB6EB3B	ZB6EG3B	ZB6EM3B			
	2 NO	ZB6Z3B	–	Red 	ZB6EB4B	ZB6EG4B	ZB6EM4B			
	2 NC	ZB6Z4B	–	Yellow 	ZB6EB5B	ZB6EG5B	ZB6EM5B			
	NO + NC	ZB6Z5B	–	Blue 	ZB6EB6B	ZB6EG6B	ZB6EM6B			
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)*		ZB6YD20	ZB6YD21	ZB6YD22	ZB6YD30	ZB6YD31	ZB6YD32			
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)*		–	ZB6Y1001	ZB6Y2001	–	ZB6Y4001	ZB6Y3001			
Ø 45 mm yellow legend for mushroom head Emergency stop pushbutton										
	Marking	Blank, for engraving			EMERGENCY STOP		ARRET D'URGENCE			
References		ZB6Y7001			ZB6Y7330		ZB6Y7130			
Body/fixing collar		Plate			Tightening tool		Dismantling tool			
		anti-rotation			and slackening, for fixing nut		for removal of contact blocks			
References		ZB6Y009 (10)*	ZB6Y003 (10)*		ZB6Y905 (2)*		ZB6Y018 (5)*			
Protective shutter for pushbuttons and switches				Connector		Blanking plug				
	for rectangular heads	for circular and square heads			Faston, female		IP 65			
References		ZB6YD001	ZB6YA001		ZB6Y004 (100)*		ZB6Y005 (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)			43						
Connection (1)			Screw clamp terminals						
Type of push			Flush			Flush, booted			
Unmarked			Products	Complete	For user assembly		Complete	For user assembly	
									
References	black	 NO	XB4BA21	ZB4BZ101	ZB4BA2		XB4BP21	ZB4BZ101	ZB4BP2
	green	 NO	XB4BA31	ZB4BZ101	ZB4BA3		XB4BP31	ZB4BZ101	ZB4BP3
	red	 NC	XB4BA42	ZB4BZ102	ZB4BA4		XB4BP42	ZB4BZ102	ZB4BP4
	yellow	 NO	XB4BA51	ZB4BZ101	ZB4BA5		XB4BP51	ZB4BZ101	ZB4BP5
	blue	 NO	XB4BA61	ZB4BZ101	ZB4BA6		XB4BP61	ZB4BZ101	ZB4BP6
Type of push			Flush						
With international marking			Products	Complete	For user assembly				
References	green	 NO	XB4BA3311	ZB4BZ101	ZB4BA331		—	—	—
	red	 NC	XB4BA4322	ZB4BZ102	ZB4BA432		—	—	—
	white	 NO	XB4BA3341	ZB4BZ101	ZB4BA334		—	—	—
	black	 NO	XB4BA3351	ZB4BZ101	ZB4BA335		—	—	—
Type of push			Projecting			Mushroom head, Ø 40 mm			
Unmarked			Products	Complete	For user assembly		Complete	For user assembly	
									
References	black	 NO	—	—	—		XB4BC21	ZB4BZ101	ZB4BC2
	red	 NC	XB4BL42	ZB4BZ102	ZB4BL4		—	—	—
Type of push			Double-headed pushbuttons			Triple-headed pushbuttons			
Degree of protection			IP 66 - IP 69K			IP 66 - IP 69K			
With international marking			Products	Complete	For user assembly		Complete	For user assembly	
				(A) 			(B) 		
References	(A)	NO + NC	XB4BL73415	ZB4BZ105	ZB4BL7341		—	—	—
	(B)	NO + NC + NO	—	—	—		XB4BA711237	ZB4BZ103 + ZBE102	ZB4BA71123

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



Ø 40 mm mushroom head Emergency stop pushbuttons (2)

				Trigger action (EN/ISO 13850)		
Type of push				Push-pull NO + NC		
Unmarked		Products		Complete	For user assembly	
						
References	red		NO + NC	XB4BT845	ZB4BZ105	ZB4BT84
Type of push				Turn to release NO + NC		
References	red		NO + NC	XB4BS8445	ZB4BZ105	ZB4BS844
Type of push				Key release NO + NC		
References	red		NO + NC	XB4BS9445	ZB4BZ105	ZB4BS944

(2) Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850, to Machinery Directive 2006/42/EC and to standard EN/IEC 60947-5-5.

Contact functions



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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 ● NO	XB4BD21	ZB4BZ101 ZB4BD2	XB4BD41	ZB4BZ101 ZB4BD4
Number and type of positions		3 positions stay put	3 positions stay put	3 positions spring return to centre	3 positions spring return to centre
References	black ● NO + NO	XB4BD33	ZB4BZ103 ZB4BD3	XB4BD53	ZB4BZ103 ZB4BD5



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 ● NO	XB4BG21	ZB4BZ101 ZB4BG2	XB4BG41	ZB4BZ101 ZB4BG4
Number and type of positions		2 positions spring return to left	2 positions spring return to left	3 positions stay put	3 positions stay put
References	black ● NO	XB4BG61	ZB4BZ101 ZB4BG6	–	–
References	black ● NO + NO	–	–	XB4BG33	ZB4BZ103 ZB4BG3



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	110...120 V AC	230...240 V AC	250 V max., 2.4 W max.		
References	white		XB4BVB1	XB4BVG1	XB4BVM1	XB4BV61	ZB4BV6	ZB4BV01
	green		XB4BVB3	XB4BVG3	XB4BVM3	XB4BV63	ZB4BV6	ZB4BV03
	red		XB4BVB4	XB4BVG4	XB4BVM4	XB4BV64	ZB4BV6	ZB4BV04
	yellow		XB4BVB5	XB4BVG5	XB4BVM5	XB4BV65	ZB4BV6	ZB4BV05
	blue		XB4BVB6	XB4BVG6	XB4BVM6	—	—	—



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	110...120 V AC	230...240 V AC	250 V max., 2.4 W max.		
References	white		NO + NC	XB4BW31B5	XB4BW31G5	XB4BW31M5	XB4BW3165	ZB4BW065	ZB4BW31
	green		NO + NC	XB4BW33B5	XB4BW33G5	XB4BW33M5	XB4BW3365	ZB4BW065	ZB4BW33
	red		NO + NC	XB4BW34B5	XB4BW34G5	XB4BW34M5	XB4BW3465	ZB4BW065	ZB4BW34
	orange		NO + NC	XB4BW35B5	XB4BW35G5	XB4BW35M5	XB4BW3565	ZB4BW065	ZB4BW35
	blue		NO + NC	XB4BW36B5	XB4BW36G5	XB4BW36M5	—	—	—



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	110...120 V AC	230...240 V AC	24 V AC/DC	110...120 V AC 230...240 V AC
References	green	NO + NC	—	—	—	XB4BK123B5	XB4BK123G5 XB4BK123M5
	red	NO + NC	—	—	—	XB4BK124B5	XB4BK124G5 XB4BK124M5
	orange	NO + NC	—	—	—	XB4BK125B5	XB4BK125G5 XB4BK125M5
	White	NO + NC	XB4BW73731B5	XB4BW73731G5	XB4BW73731M5	—	—

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

Separate components and accessories

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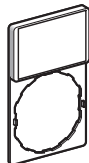
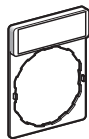


Electrical blocks (1) (2)

Single contact blocks			Light blocks with integral LED				Light block, direct supply	
Rated operational characteristics	AC-15, 240 V - 3 A		Consumption					
			18 mA	24 V AC/DC				
Positive operation of contacts conforming to IEC/EN 60947-5-1	NC contacts with positive opening operation		14 mA 120 V AC					
			14 mA 240 V AC					
	Screw clamp terminal	Spring clamp terminal	To combine with heads for integral LED				For BA 9s bulb (not included)	
				24 V AC/DC	110...120 V AC	230...240 V AC	250 V max., 2.4 W max.	
References (5)*	NC	ZBE101	ZBE1015	white 	ZBVB1	ZBVG1	ZBVM1	ZBV6
	NO	ZBE102	ZBE1025	green 	ZBVB3	ZBVG3	ZBVM3	Colour provided by lens
				red 	ZBVB4	ZBVG4	ZBVM4	
				orange 	ZBVB5	ZBVG5	ZBVM5	
				blue 	ZBVB6	ZBVG6	ZBVM6	



Diecast metal enclosures (Zinc alloy, usable depth 49 mm)		1 vertical row				2 vertical rows		
Number of cut-outs	Front face dimensions	1	2	3	4	2	4	6
References	80 x 80 mm	XAPM1201	—	—	—	XAPM1202	—	—
	80 x 130 mm	—	XAPM2202	XAPM2203	—	—	XAPM2204	—
	80 x 175 mm	—	—	XAPM3203	XAPM3204	—	—	XAPM3206



Accessories (2)

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

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

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

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

Ø 60 mm legend for mushroom head Emergency stop pushbutton

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

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

(2) Electrical blocks and accessories also for use with Harmony XB5 plastic range

* sold in lots of



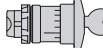
Pushbuttons, spring return

Type of head		Circular bezel						
Degree of protection		IP 66 / Nema 4X, 13 / Class II						
Mounting (mm)	panel cut-out	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	NO	XB5AA21	ZB5AZ101	ZB5AA2	XB5AP21	ZB5AZ101	ZB5AP2
	green	NO	XB5AA31	ZB5AZ101	ZB5AA3	XB5AP31	ZB5AZ101	ZB5AP3
	red	NC	XB5AA42	ZB5AZ102	ZB5AA4	XB5AP42	ZB5AZ102	ZB5AP4
	yellow	NO	XB5AA51	ZB5AZ101	ZB5AA5	XB5AP51	ZB5AZ101	ZB5AP5
	blue	NO	XB5AA61	ZB5AZ101	ZB5AA6	XB5AP61	ZB5AZ101	ZB5AP6
Type of push			Flush					
With international marking	Products		Complete	For user assembly		Complete	For user assembly	
References	green	NO	XB5AA3311	ZB5AZ101	ZB5AA331	—	—	—
	red	NC	XB5AA4322	ZB5AZ102	ZB5AA432	—	—	—
	white	NO	XB5AA3341	ZB5AZ101	ZB5AA334	—	—	—
	black	NO	XB5AA3351	ZB5AZ101	ZB5AA335	—	—	—
Type of push			Projecting			Mushroom head, Ø 40 mm		
Unmarked	Products		Complete	For user assembly		Complete	For user assembly	
References	black	NO	—	—	—	XB5AC21	ZB5AZ101	ZB5AC2
	red	NC	XB5AL42	ZB5AZ102	ZB5AL4	—	—	—
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	For user assembly		Complete	For user assembly	
References	(A)	NO + NC	XB5AL73415	ZB5AZ105	ZB5AL7341	—	—	—
	(B)	NO + NC + NO	—	—	—	XB5AA711237	ZB5AZ103 + ZBE102	ZB5AA71123

(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)		
Type of push				Push-pull NO + NC		
Unmarked		Products		Complete	For user assembly	
						
References	red		NO + NC	XB5AT845	ZB5AZ105	ZB5AT84
Type of push				Turn to release NO + NC		
References	red		NO + NC	XB5AS8445	ZB5AZ105	ZB5AS844
Type of push				Key release NO + NC		
References	red		NO + NC	XB5AS9445	ZB5AZ105	ZB5AS944

(2) Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850: to Machinery Directive 2006/42/EC and to standard EN/IEC 60947-5-5.

Contact functions



1

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 ● NO	XB5AD21	ZB5AZ101	ZB5AD2	XB5AD41
Number and type of positions		3 positions stay put	3 positions stay put		3 positions spring return to centre
References	black ● NO + NO	XB5AD33	ZB5AZ103	ZB5AD3	XB5AD53
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 ● NO	XB5AG21	ZB5AZ101	ZB5AG2	XB5AG41

(2) The symbol indicates key withdrawal position.



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		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	110...120 V AC	230...240 V AC	250 V max., 2.4 W max.		
References	white		XB5AVB1	XB5AVG1	XB5AVM1	XB5AV61	ZB5AV6	ZB5AV01
	green		XB5AVB3	XB5AVG3	XB5AVM3	XB5AV63	ZB5AV6	ZB5AV03
	red		XB5AVB4	XB5AVG4	XB5AVM4	XB5AV64	ZB5AV6	ZB5AV04
	orange		XB5AVB5	XB5AVG5	XB5AVM5	XB5AV65	ZB5AV6	ZB5AV05
	blue		XB5AVB6	XB5AVG6	XB5AVM6	—	—	—



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	110...120 V AC	230...240 V AC	250 V max., 2.4 W max.		
References	white		NO + NC	XB5AW31B5	XB5AW31G5	XB5AW31M5	XB5AW3165	ZB5AW065	ZB5AW31
	green		NO + NC	XB5AW33B5	XB5AW33G5	XB5AW33M5	XB5AW3365	ZB5AW065	ZB5AW33
	red		NO + NC	XB5AW34B5	XB5AW34G5	XB5AW34M5	XB5AW3465	ZB5AW065	ZB5AW34
	orange		NO + NC	XB5AW35B5	XB5AW35G5	XB5AW35M5	XB5AW3565	ZB5AW065	ZB5AW35
	blue		NO + NC	XB5AW36B5	XB5AW36G5	XB5AW36M5	—	—	—



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	110...120 V AC	230...240 V AC	24 V AC/DC	110...120 V AC	230...240 V AC
References	green	NO + NC	—	—	XB5AK123B5	XB5AK123G5	XB5AK123M5
	red	NO + NC	—	—	XB5AK124B5	XB5AK124G5	XB5AK124M5
	orange	NO + NC	—	—	XB5AK125B5	XB5AK125G5	XB5AK125M5
	white	NO + NC	XB5AW73731B5	XB5AW73731G5	—	—	—

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

Separate components and accessories: see page 1/9.

(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						Black handle
NO	I		XALD102	—	—	Key n° 455 (key withdrawal LH pos.)
		Start	XALD103	—	—	—
		O - I	—	—	—	XALD134
		O	—	XALD112	XALD115	XALD144

(1) Empty enclosures:

Basic reference: **XALK0●**, 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)			Trigger action (EN/ISO 13850)
References						
NC	NC + NC		XALK178	—	—	XALK188
			XALK178F	—	—	XALK188F
			XALK178E	—	—	XALK188E
			XALK178G	—	—	XALK188G

(2) Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850, to Machinery Directive 2006/42/EC and to standard EN/IEC 60947-5-5.



(1) Empty enclosures:

Basic reference: **XALD0●**, 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 flush black p/b		1 flush red p/b		1 Ø 30 red mush			
					1 red pilot light with integral LED				1 flush black p/b		room head p/b			
											1 flush black p/b			
References			NO + NC	I - O	XALD213	XALD363B	XALD363M	—	—	—				
				Start - Stop	XALD215	—	—	—	—	—				
			NO + NO	↕	—	—	—	XALD222	—	—				
			NO + NC + NO	⬆	—	—	—	—	XALD324	XALD328				
				⬇										

Accessories		Standard contact blocks		Light blocks with integral LED, colour red	
Description		NO contact		24 V AC/DC	
References		ZENL111		ZALVB4	
		ZENL121		ZALVM4	



Ready to use packs	Panel mounting				Mobile application	
Wireless and batteryless 22mm pushbutton assembled on fixing collar	Plastic head	Metal head	Plastic head	Metal head	Plastic head in handy box	
Caps	1 black cap		1 set of 10 different coloured caps		1 black cap	1 set of 10 different coloured caps
Receiver	Non configurable		Configurable functions: monostable, bistable, stop/start		Non configurable	Configurable functions: monostable, bistable, stop/start
Relay output	1 relay output type RT 3A		2 relays output type RT 3A		1 relay output type RT 3A	2 relays output type RT 3A
Voltage receiver	24 VDC		24...240 AC/DC		24 VDC	24...240 AC/DC
References	XB5RFB01	XB4RFB01	XB5RFA02	XB4RFA02	XB5RMB03	XB5RMA04

The pushbutton and receiver are factory paired



Transmitter components for wireless and batteryless pushbuttons			Plastic mushroom head	Plastic head	Metal head
Wireless and batteryless pushbuttons including			- a transmitter fitted with fixing collar - a spring return pushbutton head with clipped-in cap		
Reference	Cap colour	White	—	ZB5RTA1	ZB4RTA1
		Black	—	ZB5RTA2	ZB4RTA2
		Green	—	ZB5RTA3	ZB4RTA3
		White I on green background	—	ZB5RTA331	ZB4RTA331
		Red	—	ZB5RTA4	ZB4RTA4
		White O on red background	—	ZB5RTA432	ZB4RTA432
		Yellow	—	ZB5RTA5	ZB4RTA5
		Blue	—	ZB5RTA6	ZB4RTA6
		Black	ZB5RTC2	—	—



Transmitter components for wireless and batteryless rope pull switch	Rope pull switch with wireless and batteryless transmitter
Reference	ZBRP1

Components and accessories



1

Configurable receivers

Description	- 2 buttons (learn, parameter setting) - 6 indicating LEDs (power ON, outputs, signal strength)		
Output function	Monostable	Monostable, bistable	Monostable, bistable, stop/start
Output type	4 PNP outputs 200 mA / 24V	2 relay outputs type RT 3A	
Receiver voltage	24 VDC	24...240 AC/DC	
References	ZBRRC	ZBRRD	ZBRRR



Configurable access point (1)

Description	- 7-segment display - jog dial - 8 indicating LEDs (power ON, functions mode, communication status, signal strength) - external antenna connector and protective plug		
Output function	Monostable		
Output type	2 RS485 for Modbus RS485 serial line	1 slot for communication module ZBRCETH	
Receiver voltage	24....240 AC/DC		
References	ZBRN2	ZBRN1	

(1) Available 1st quarter 2013.



Complementary accessories	Relay antennas		Communication module	Plastic empty boxes		
Description	1 power-ON LED 2 LEDs reception / transmission	1 RF connector	Modbus/TCP protocol 2 RJ45 connectors	Handy, 1 cut-out	1 cut-out	2 cut-outs
Cable length	5m	2m				
Voltage	24...240 AC/DC					
Reference	ZBRA1	ZBRA2 (1)	ZBRCETH (1)	ZBRM01	XALD01	XALD02

(1) Available 1st quarter 2013.



Pushbuttons

Type of head				Flush or projecting push			
Degree of protection				IP 65, class II, NEMA type 3 and 12			
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				Screw clamp terminals, 1 x 0.34 mm² to 1 x 1.5 mm²			
Type of push				Flush, spring return		Flush, push and latching	
References (10)*	white		NO	XB7NA11		–	
			NO + NC	XB7NA15		–	
	black		NO	XB7NA21		XB7NH21	
			NO + NC	XB7NA25		XB7NH25	
	green		NO	XB7NA31		XB7NH31	
			NO + NC	XB7NA35		XB7NH35	
	red		NC	XB7NA42		–	
			NO + NC	XB7NA45		–	
	yellow		NO	XB7NA81		–	
Type of push				Flush, spring return		Projecting, spring return	
References	green		NO	XB7NA3131		–	
	red		NC	–		XB7NL4232	
	white		NO	XB7NA11341		–	
	black		NO	XB7NA21341		–	
			NO + NC	XB7NA25341		–	



Selector switches and key switches

Type of operator		Black handle		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*)				
	NO	XB7ND21	—	XB7NG21	—
	NO + NC	XB7ND25	—	—	—
	2 NO	—	XB7ND33	—	XB7NG33



Ø 40mm Emergency Stop trigger action and mechanical latching pushbuttons (EN/ISO 13850, UL) (1)

Type of push		Turn to release	Push, Pull	Key release (n° 455)
References*	red NC	XB7 NS8442	XB7 NT842	—
	red NO + NC	XB7 NS8445	XB7 NT845	XB7 NS9445
	red 2NC	XB7 NS8444	XB7 NT844	XB7 NS9444

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

* Sold in lots of 10.

Contact functions and light functions

(1):

Supply voltage for integral LED light source only	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 65, class II, NEMA type 12	
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		Screw clamp terminals, 1 x 0.34 mm ² to 1 x 1.5 mm ²	
Light source		Integral LED	BA 9s base fitting Incandescent bulb direct supply (bulb not included)
Type of push		Spring return	
References (10)*	green  NO	XB7NW33●1 (1)	XB7NW3361
	red  NO	XB7NW34●1 (1)	XB7NW3461
		XB7NW34●2 (1)	—
	orange  NO	XB7NW35●1 (1)	—
	blue  NO	XB7NW36●1 (1)	—
	clear  NO	XB7NW37●1 (1)	—
	yellow  NO	XB7NW38●1 (1)	XB7NW3561
Type of push		Push and latching	
References (10)*	green  NO	XB7NH03●1 (1)	XB7NH0361
	red  NO	XB7NH04●1 (1)	XB7NH0461
		XB7NH04●2 (1)	—
	yellow  NO	XB7NH08●1 (1)	XB7NH0861



Pilot lights (2)

Light source		Integral LED	Ba 9s base fitting 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)*	clear 	XB7EV07●P (1)	XB7EV67P	XB7EV77P
	green 	XB7EV03●P (1)	XB7EV63P	XB7EV73P
	red 	XB7EV04●P (1)	XB7EV64P	XB7EV74P
	yellow 	XB7EV05●P (1)	XB7EV65P	XB7EV75P
	blue 	XB7EV06●P (1)	XB7EV66P	XB7EV76P
	orange 	XB7EV08●P (1)	XB7EV68P	XB7EV78P

Incandescent bulbs, long life

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

	6 V (1.2 W)	24 V (2 W)	130 V (2.4 W)
References	DL1CB006	DL1CE024	DL1CE130

(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

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	CO	9001KR1UH13	9001KR3UH13	9001KR2UH13
	NO	9001KR1UH5	9001KR3UH5	9001KR2UH5



Mushroom head pushbuttons, latching (1)		Emergency switching off		Emergency stop
Type of push		Push-pull		Turn-to-Release, trigger action
Degree of protection		Ø 41 mushroom head	Ø 35 mushroom head	Ø 40 red mushroom head
Mounting (mm)		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
	CO	9001KR9R94H13	9001KR9R20H13	–
	NC	9001KR9RH6	9001KR9R20H6	–
	2NO + 2NC	–	–	9001KR16H2
	NO	–	–	9001KR16H13

(1) Mushroom head switching off mechanical latching pushbuttons conform to standard IEC 60364-5-53 and EN/IEC 60947-5-5. Mushroom head Emergency stop trigger action and mechanical latching pushbuttons conforming to standard EN/IEC 60204-1 and EN/ISO 13850, to Machinery directive 2006/42/EC and standard EN/IEC 60947-5-5.

(2) For yellow circular Emergency Stop legend plates: see page 1/9



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)	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	NO	–	9001KS11FBH5	9001KS34FBH5	–	–
	CO	9001KS53FBH1	–	–	9001KS43FBH1	9001KS11K1RH1

(2) The symbol indicates key withdrawal position.

Light functions



1

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 ●	CO 9001K3L35LGGH13	9001K3L36LGGH13	9001K3L38LGGH13	9001K2L7RH13
	red ●	CO 9001K3L35LRRH13	9001K3L36LRRH13	9001K3L38LRRH13	9001K2L7GH13
	yellow ●	CO 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 ●	CO 9001KR9P35RH13	9001KR9P36RH13	9001KR9P38RH13	9001KR9P7RH13
		3 position, push-pull (pull: spring return, centre: stay put, push: spring return)			
References	red ●	NC + NC late break 9001KR8P35RH25	9001KR8P36RH25	9001KR8P38RH25	9001KR8P7RH25

1



Contact blocks with protected terminals

Type of contact		Single contact blocks
Connection		Screw clamp terminals
References	CO	9001KA1
	NO	9001KA2
	NC	9001KA3
	CO, late break	9001KA4
	NC, late break	9001KA5
	NO, early make	9001KA6



Enclosures

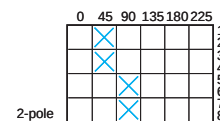
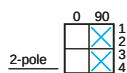
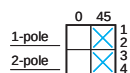
Type	Number of Ø 30 mm cut-outs	NEMA ratings	Reference
Aluminium	1	1, 3, 4, 6, 12, 13	9001KY1
	2	1, 3, 4, 6, 12, 13	9001KY2
	3	1, 3, 4, 6, 12, 13	9001KY3
	4	1, 3, 4, 6, 12, 13	9001KY4
Stainless steel	1	1, 3, 4, 4X, 13	9001KYSS1
	2	1, 3, 4, 4X, 13	9001KYSS2
	3	1, 3, 4, 4X, 13	9001KYSS3



Legends		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 (°)

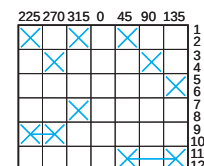
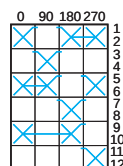
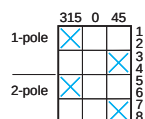


Cam switches, K1 / K2 series

Function	Switches	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	K1B002ALH K2B 002ALH	K1B1002HLH K2B 1002HLH
	Plastic mounting plate for Ø 22 mm hole	K1B002ACH K2B 002ACH	K1B1002HCH K2B 1002HCH
		K1D012QLH K2D012QLH	K1D012QCH K2D012QCH



positions (°)



Cam switches, K1 / K2 series

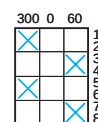
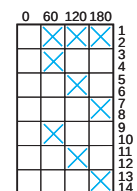
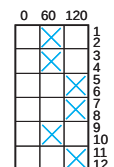
Function	Changeover switches	Ammeter switches	Voltmeter switches
Degree of protection front face	IP 65 (1)	IP 65 (1)	IP 65 (1)
Conventional thermal current (Ith)	12 A 20 A	12 A 20 A	12 A 20 A
Rated insulation voltage (Ui) conforming to IEC60947-1	690 V	690 V	690 V
Number of positions	2 + "0" position	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	K1D002ULH K2D002ULH	K1F003MLH to be compiled *
	Plastic mounting plate for Ø 22 mm hole	K1D002UCH K2D002UCH	K1F003MCH to be compiled *
		K1F027MLH to be compiled *	K1F027MCH 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	K1F022QZ2 K1F022QZ4	K1G043RZ2 K1G043RZ4
		K1D002UZ2 K1D002UZ4	

Harmony

K series

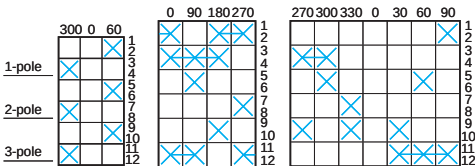
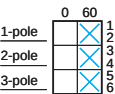
Cam switches

10 to 150 A ratings

1



positions (°)



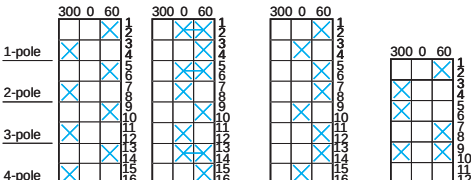
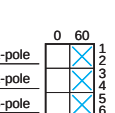
Cam switches, K10 series

Function	Switches	Changeover switches	Ammeter switches	Voltmeter switches
	60° switching angle	with "0" position		
Degree of protection	front face	IP 65	IP 65	IP 65
Conventional thermal current (Ith)	10 A	10 A	10 A	10 A
Rated insulation voltage (Ui) 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	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	K10A001ACH	K10B002ACH	K10C003ACH

- (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
Conventional thermal current (Ith)	32 A	32 A	32 A	32 A	32 A	32 A
Rated insulation voltage (Ui) 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	K30C003AP (3)	K30C003HP (3)	K30D004HP (3)	K30H004UP (3)	K30H001YP (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 K30C003AP, 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*		KZ65	KZ66	KZ73

* Sold in lots of 5.

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 (4)	XVC4B15S	XVC4M15S (4)
	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	100-240 V AC ⁽⁴⁾	24V AC/DC	100-240 V AC ⁽⁴⁾	
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



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 (4)	100-240V AC (4)	24VDC (4)	100-240V AC (4)	24VDC (4)	100-240V AC (4)
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)

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

(4) NPN only

1

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

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
	unidirectional 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.

1

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●

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.

Modular tower lights Ø 45, Ø 50 mm, complete or for customer assembly



Ø 45 mm / IP42

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, XVMB2RGSSB becomes XVMB2RGSB).

(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			
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●SB	DL1EKB●SB	DL6BB
	120 V	DL1EDGS	DL2EDG●SB	DL1EKG●SB	DL6BG
	230 V	DL1EDMS	DL2EDM●SB	DL1EKM●SB	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	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,	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



Complete, pre-wired rotating 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 55 with accessories)	
Voltage		12V AC/DC	24V AC/DC	12V AC/DC	24V 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 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 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	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 53	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)



Type XACA "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 mm² or 2 x 1.5 mm²			
For control of		single-speed motors 		2-speed motors 	
Dimensions (mm)	W x H x D	52 x 295 x 71 (x 85 with ZA2BS834)		52 x 295 x 71 (x 85 with ZA2BS834)	
Number of operators	mechanically interlocked	2		2	
	Emergency stop	without	ZA2BS834	without	ZA2BS834
References		XACA201	XACA2014	XACA207	XACA2074



Type XACA

For control of single-speed motors				
Dimensions (mm)	W x H x D	80 x 314 x 70 (x 90 with ZA2BS834)		80 x 440 x 70 (x 90 with ZA2BS844)
Number of operators	mechanically interlocked between pairs	2		4
	Emergency stop	without	ZA2BS834	without ZA2BS844
References		XACA271	XACA2714	XACA471 XACA4714



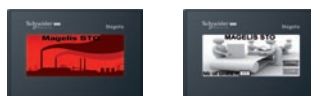
For control of single-speed motors				
Dimensions (mm)	W x H x D	80 x 500 x 70 (x 90 with ZA2BS844)		80 x 560 x 70
Number of operators	mechanically interlocked between pairs	6		8
	Emergency stop	without	ZA2BS844	without
References		XACA671	XACA6714	XACA871

Empty enclosures type XACA

Number of ways	2	3	4	5	6	8	12
References	XACA02	XACA03	XACA04	XACA05	XACA06	XACA08	XACA12

Notes

1



Type		Characteristics				
Display	Touchscreen	3.4" (200 x 80 pixels) Monochrome LCD				
	Backlight	Green, orange, red	White, pink, red	Green, orange, red		
Ambient temperature		0...50 °C				
Memory	Application/Backup	16MB/128KB				
	Extension	No, via USB stick only				
Functions	Real time clock	Access to the PLC real-time clock				
	Variables max.	8000				
Third-party protocols supported		Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB				
Communication	Ethernet port	No	No	x1 RJ45	x1 RJ45	No
	Serial line	RS 232C/RS 485 (COM1)		No	No	Zelio Logic
	USB	USB Type-A (2.0) x 1, USB mini-B (2.0) x 1				
Replaceable Battery		No				
Dimensions	External W x H x D (mm)	117 x 78 x 28				
	Cut-out W x H (mm)	105 × 66				
Supply voltage		24VDC				
Conformity to standards		EN, IEC, UL 508, ISA 12, 12, CSA, Marine Bridge & Deck (1), GOST				
Reference		HMISTO511	HMISTO512	HMISTO531	HMISTO532	HMISTO501

(1) Except HMISTO53.

Magelis STU with graphic screen



Type		Characteristics			
Display	Touchscreen	3.5": 320 x 240 pixels		5.7", 320 x 240 pixels	
	Type	65,536-color TFT			
Front Face		Standard	Without logotype	Standard	Without logotype
Ambient temperature		0...50 °C			
Memory	Application/Backup	32MB/64KB			
	Extension	No, via USB stick only			
Functions	Real time clock	Access to the PLC real-time clock			
	Variables max.	8000			
Third-party protocols supported		Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB			
Communication	Ethernet port	x1 RJ45			
	Serial line	RS 232C/RS 485 (COM1)			
	USB	USB Type-A (2.0) x 1, USB mini-B (2.0) x 1			
Replaceable Battery		No			
Dimensions	External W x H x D (mm)	Front: 98 x 16 x 81		Front: 163 x 17.5 x 129.5	
		Rear: 118 x 30 x 98			
	Cut-out	Ø22 mm			
Supply voltage		24VDC			
Conformity to standards		EN, IEC, UL 508, ISA 12,12,CSA , Marine Bridge & Deck, GOST			
References		HMISTU655	HMISTU655W	HMISTU855	HMISTU855W

Common accessories for Magelis STO/STU

Serial connection to PLC/Drives (1)	HMI STO/STU	Connector/Physical link	Length	Reference
Twido, Premium, Micro	RJ45 (COM1)	Mini-DIN/RS485	2.5 m	XBT Z9780
M238/M258/M340, ATS, ATV	RJ45 (COM1)	RJ45/RS485	2.5 m	XBT Z9980
ATV, ATS	RJ45 (COM1)	RJ45/RS485	1 m	VW3A8306R10
M340	USB	USB mini-B	1.8 m	BMX XCAUSBH018
Siemens S7, PPI, MPI	RJ4 5 (COM1)	SUBD9/RS485	2.5 m	XBT ZG9721
Rockwell Micro-Logix, DF1-Full Duplex	RJ45 (COM1)	8-way mini-DIN /RS232	2.5 m	XBT Z9733
Rockwell SLC5,	RJ45 (COM1)	SUBD9/RS232	2.5 m	XBT Z9734
Omron, Sysmac FINS (SIO)	RJ45 (COM1)	SUBD9/RS232	2.5 m	XBT Z9743
Mitsubishi FX CPU	RJ45 (COM1)	Mini-DIN 8/RS232	2.5 m	HMIZ950

(1) For the full list of connection accessories, please consult our site <http://www.schneider-electric.com>.

Accessories and spare parts for Magelis STO

Accessories	
Protective sheets	HMIZS60
Communication cable between Zelio Logic SR2/SR3 and HMISTO501	SR2CBL09
Spare parts	
Spring Clips	XBT Z3002
Installation Gasket	HMI ZS50
Set of 5 Power Connectors	HMI ZSPWO

Accessories and spare parts for Magelis STU

Accessories		
Touchscreen size	3.5"	5.7"
Set of 5 Screen Protective Sheets	HMIZS61	HMIZS62
Accessory Kit for HMI STU 655/855, contains: USB standard Type A cable holder; USB mini B cable holder; Anti-rotation Tee; 2 Panel adaptors	HMI ZSU KIT	
Spare parts		
Touchscreen size	3.5"	5.7"
Front face module (without logotype)	HMIS65 (HMIS65W)	HMIS85 (HMIS85W)
Rear CPU module	HMIS5T	
Set of 5 Power Connectors	XBT ZGPWS1	
Kit of 10 display module fixing nuts	ZB5AZ901	
Tightening Wrench	ZB5AZ905	



Type		Characteristics (65 536-colour TFT touchscreen)			
		3.5": 320 x 240 pixels		5.7": 320 x 240 pixels	
Degree of protection	Front Face	Standard, IP65			
Conformal coating		No (1)			
Ambient temperature		0...50 °C			0...55 °C
Memory	Application/Backup	64MB/128KB	96MB/512KB	64MB/128KB	96MB/512KB
	Extension	No, via USB stick only			SD card
Functions	Real time clock	Yes, built-in			
	Variables max.	8000			
Third-party protocols supported		Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB			
Communication	Ethernet port	No	x1 RJ45	No	x1 RJ45
	Serial line	RS 232C (COM1) and RS 485 (COM2) (2)			
	USB	USB Type-A (2.0) x 1, USB mini-B (2.0) x 1			
Dimensions	External / Cut-out W x H x D (mm)	132 x 106 x 42 / 118.5 x 92.5		169.5 x 137 x 59.5 / 156 x 123.5	
Conformity to standards		EN, IEC, UL 508, ISA12,12, CSA, ATEX Zone2/22 , Marine Bridge & Deck (3), GOST			
Reference	24 VDC	HMI GTO1300	HMI GTO1310	HMI GTO2300	HMI GTO2310

(1) Available on request; (2) COM1 only (RS232C/RS485) in HMI GTO1310; (3) Except GTO●●●5

Accessories		
Set of 5 Screen Protective Sheets	HMI ZG60	HMI ZG62
Plastic covers for Harsh Environment (IP67)	HMI ZECOV1	HMI ZECOV2

Magelis XBT GT with 5,7" to 12" touchscreen



Type		Characteristics					
		5.7": 320 x 240 pixels		5.7": 640 x 480 pixels	7.5": 640 x 480 pixels		
Display	Type	4096-color STN	65,536-color TFT		4096-color STN		
Ambient temperature		0...50 °C					
Memory	Application/Backup	16MB/512KB		32MB/512KB			
	Extension	Compact Flash card					
Functions	Real time clock	Yes, built-in					
	Variables max.	8000					
	Multimedia	No			Audio out		
	HMI Controller function	Yes, with CANopen Master extension (programming in SoMachine software)					
Third-party protocols supported		Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB					
Communication	Ethernet port	No		x1 RJ45			
	Serial line	RS232/RS422/RS485 (COM1) + RS485 (COM2)					
	Fieldbus extensions	Profibus DP, DeviceNet, Modbus Plus, FIPWAY, FIPIO					
	USB	USB Type-A (1.1) x 1			USB Type-A (1.1) x 2	USB Type-A (1.1) x 1	
Dimensions	External / Cut-out W x H x D (mm)	167.5 x 60 x 135 / 156 x 123.5				215 x 60 x 170 / 204.5 x 159.5	
Conformity to standards		EN, IEC, UL 508, ISA 12,12 (2) ,CSA, ATEX Zone 2/22 (3) , Marine (4), GOST					
Reference	24VDC	XBTGT2220	XBTGT2330	XBTGT2930 (1)	XBTGT2430	XBTGT4230	

(1) High-brightness backlight, 1000 cd/m² , (2) Except XBTGT2930 , (3) Zone 22 only XBTGT6●●● /7●●●, (4) Except XBTGT2220/2430 /2930 /4230 /5430

Accessories					
Set of 5 Screen Protective Sheets	XBT ZG62			XBT ZG64	
Plastic covers for Harsh Environment (IP67)	XBT ZG70	XBT ZG70	XBT ZG70	XBT ZG70	—



	7.0": 800 x 480 pixels	7.5": 640 x 480 pixels	10.4": 640 x 480 pixels	12.1": 800 x 600 pixels	5.7": 320 x 240 pixels	10.4": 640 x 480 pixels	12.1": 800 x 600 pixels
	Standard, IP65				Stainless steel, IP66K		
	No (1)				Yes		
	0...50 °C		0...55 °C				
	96MB/512KB						
	SD card						
	Yes, built-in						
	8000						
	Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB						
	x1 RJ45						
	RS 232C (COM1) and RS 485 (COM2) (2)						
	USB Type-A (2.0) x 1, USB mini-B (2.0) x 1						
	218x173x60 / 204.5x159.5		272.5x214.5x57 / 259x201	315x241x56 / 301.5x227.5	213.5x181x59.5 / 195x162.5	316.5x258.5x57 / 298x240	359x285x56 / 340.5x266.5
	EN, IEC, UL 508, ISA12,12, CSA, ATEX Zone2/22, Marine Bridge & Deck (3), GOST						
	HMI GTO3510	HMI GTO4310	HMI GTO5310	HMI GTO6310	HMI GTO2315	HMI GTO5315	HMI GTO6315

HMI ZG63	HMI ZG64	HMI ZG65	HMI ZG66	HMI ZG62	HMI ZG65	HMI ZG66
HMI ZECOV4	HMI ZECOV4	HMI ZECOV5	HMI ZECOV6	—	—	—



	7.5": 640 x 480 pixels	10.4": 640 x 480 pixels		10.4": 800 x 600 pixels	12.1": 800 x 600 pixels		15": 1024 x 768 pixels
	65,536-color TFT						
	0...50 °C						
	32MB/512KB						
	Compact Flash card						
	Yes, built-in						
	8000						
	Audio out	Video in, Audio in/out	Audio out	Video in, Audio in/out	Audio out	Audio out	Video in, Audio in/out
	Yes, with CANopen Master extension (programming in SoMachine software)						
	Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB						
	x1 RJ45						
	RS232/RS422/RS485 (COM1) + RS485 (COM2)						
	Profibus DP, DeviceNet, Modbus Plus, FIPWAY, FIPIO						
	USB Type-A (1.1) x 2						
	215 x 60 x 170 / 204.5 x 159.5	271 x 57 x 213 / 259 x 201				313 x 56 x 239 / 301.5 x 227.5	395x60x294 / 383.5x282.5
	EN, IEC, UL 508, ISA 12.12 (2) ,CSA, ATEX Zone 2/22 (3) , Marine(4), GOST						
	XBTGT4330	XBTGT4340	XBTGT5330	XBTGT5340	XBTGT5430	XBTGT6330	XBTGT6340
							XBTGT7340

XBT ZG64	XBT ZG65	XBT ZG66	MPC YK5 0SPS KIT
—	XBT ZG71	XBT ZG71	—



Type		Characteristics (65,536-color TFT touchscreen)	
		5.7", 320 x 240 pixels	10.4": 640 x 480 pixels
Data entry	Soft function keys with LED	14	18
	Static function keys with LED	10 + legends	12 + legends
	Service keys / Alphanumeric keys	8 / 12	
	Industrial pointer	Yes	
Ambient temperature		0...50 °C	
Memory	Application/Backup	16MB/512KB	32MB/512KB
	Extension	Compact Flash card	
Functions	Real time clock	Yes, built-in	
	Variables max.	8000	
	HMI Controller function	Yes, with CANopen Master extension (programming in SoMachine software)	
Third-party protocols supported		Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB	
Communication	Ethernet port	x1 RJ45	
	Serial line	RS232/RS422/RS485 (COM1) + RS485 (COM2)	
	Fieldbus extensions	Profibus DP, DeviceNet, Modbus Plus, FIPWAY, FIPIO	
	USB	USB Type-A (1.1) x 1	USB Type-A (1.1) x 2
Dimensions	External / Cut-out W x H x D (mm)	220.3 x 265 x 60.3 / 209 x 243	296 x 332 x 72.7 / 285 x 309
Conformity to standards		EN, IEC, UL 508, ISA 12,12 , CSA, GOST	
Reference	24VDC	XBTGK2330	XBTGK5330
Accessories			
Set of 5 Screen Protective Sheets		XBT ZG68	XBT ZG69

Magelis XBT GH with handheld 5.7" touchscreen



Type		Characteristics (65,536-colour TFT touchscreen)	
		5.7", 320 x 240 pixels	
Data entry	Function keys / Operation key	11 / 1 with LED (validation touchscreen)	
Safety components	Key Switch	Yes for ON/OFF	Yes
	3 positions Enable switch	Yes, OK signal in intermediate position only	Yes
	Emergency stop	Yes, red with 2 safe contacts and one auxiliary contact	No
Ambient temperature		0...50 °C	
Memory	Application/Backup	32MB/512KB	
	Extension	Compact Flash card	
Functions	Real time clock	Yes, built-in	
	Variables max.	8000	
Third-party protocols supported		Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB	
Communication	USB	USB Type-A (1.1) x 1	
Dimensions	External W x H x D (mm)	224 x 174 x 87.1	
Conformity to standards		EN, IEC, UL 508	
Reference	24VDC	XBT GH2460	XBT GH2460B
Cable interface		connection with junction box	
Length		3 m	5 m
Reference		XBTZGHL3	XBTZGHL5
			XBTZGHL10
Junction box		connection with PLCs	
Communication		1 SubD9 (RS232 / RS422 - RS 425) serial link, 1 Ethernet RJ45 IEEE 802.3 10/100 T-BASE	
Connection	32 pins connector	Interface cable 3 or 10 m	
	24 pins screw terminals blocks	For 24 V DC supply, state of I/O safety components	
Reference		XBTZGJBOX	

A large number of accessories (cables, memory cards, protective sheets, etc.) is available for the Advanced panels range.



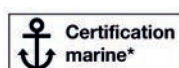
Type		Characteristics	Standard 10" IP65	Standard 15" IP65	Stainless steel 15" IP65
Display	16 million-colour TFT touchscreen		10.4", 800x600 pixels	15" (1024 x 768 pixels)	
	Type		16 million-color TFT		16 million-color TFT, Stainless Steel
Ambient temperature			0...50 °C		
CPU			Atom Z510 1,1 Ghz Fanless		
Operating System			Windows Embedded 2009 on 2 GB CF (SLC) storage (1)		
Pre-installed software			Vijeo Designer Run Time unlimited licence, Office & PDF readers, Internet browser, .Net 3.5, Vijeo Citect web client		
Memory	RAM/SRAM (Backup)		1GB/512KB		
	Extension		SD card		
Functions	Real time clock		Yes, built-in		
	Variables max.		12000		
Third-party protocols supported			Siemens, Omron, Mitsubishi, Allen-Bradley (Rockwell Automation), ABB		
Communication	Ethernet port		x2 RJ45		
	Serial line		RS-232C (COM1)		
	USB		USB Type-A (2.0) x 3 (2 bottom side and 1 front side)		USB Type-A (2.0) x 2
Replaceable Battery			Yes		
Dimensions	External W x H x D (mm)		323 x 260 x 72	402 x 301 x 72	
	Cut-out W x H (mm)		303 x 243	383.5 x 282.5	
Conformity to standards			EN, IEC, UL 508, ISA12.12, CSA		
Reference	24VDC		HMIGTW5354	HMIGTW7354	HMIGTW73545

(1) Please, upgrade to 4GB CF to run Intelligent Data Service add on

Accessories			
Set of 5 Screen Protective Sheets	MPC YK2 0SPS KIT	MPC YK5 0SPS KIT	MPC YK5 0SPS KIT
Power line filter for marine certification	—	HMIYLFIMAR11	—

Control extension for XBT GT/GK

Type of module	CANopen Master
Characteristics	Class M10 limited 16 slaves, Standard DS301 V4.02
Reference	XBTZGCANM





Type		Characteristics	
Display	LCD screen size / Resolution	5,7" / QVGA	
	Type	STN monochrome, gray	65536-color TFT
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, button, light, clock, flashing light, keypad	
	Curves / Alarm logs		
	Control	5 languages IEC	
Communication	Serial link	1 Sub9 (RS 232/RS 422 - RS 485)	
	Networks	—	Ethernet, IEEE 802.3 10/100 BASE-T, RJ45
Downloadable protocols		Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Sematic) Uni-TE, Modbus, Modbus TCP	
Development software		SoMachine (on Windows XP and Vista)	
Dimensions W x D x H (mm)		207 x 76 x 157	
Compatibility with PLCs		Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340	
«Compact Flash» card slot		No	
USB port Host type A		1	1
Built-in Ethernet TCP/IP		No	Yes
Integrated I/O		16I/16O 24 VDC	
Extensions		3 modules TM2 or CANopen module	
Supply voltage		24 VDC	
References	Source Output	XBTGC2120T	XBTGC2330T
	Sink Output	XBTGC2120U	XBTGC2330U

Extensions

Type of module	CANopen Master
Characteristics	Class M10 limited 16 slaves, Standard DS301 V4.02
References	XBTZGCCAN

Type of module	Digitals Inputs / Outputs						
Characteristics	8I 24 VDC Screw terminal	16I 24 VDC Screw terminal	16I 24 VDC HE10	32I 24 VDC HE10	8I 120 VAC Screw terminal	4I 24 VDC 40 Relays Screw terminal	16I 24 VDC 80 Relays Screw terminal
References	TM2DDI8DT	TM2DDI16DT	TM2DDI16DK	TM2DDI32DK	TM2DAI8DT	TM2DMM8DRT	TM2DMM24DRF

Type of module	Digitals Inputs / Outputs					
Characteristics	8O Transistor 24 VDC Screw terminal	16O Transistor 24 VDC HE10	32O Transistor 24 VDC HE10	8O Relays 230 VAC 30 VDC Screw terminal	16O Relays 230 VAC 30 VDC Screw terminal	
References	Source Output	TM2DD08TT	TM2DD016TK	TM2DD032TK	TM2DRA8RT	TM2DRA16RT
	Sink Output	TM2DD08UT	TM2DD016UK	TM2DD032UK	—	—

Type of module	Analog Inputs / Outputs					
Characteristics	2I Current/Voltage	2I Thermocouple	4I Current/Voltage Temperature	8I Current/Voltage	8I Temperature	8I PTC
References	TM2AMI2HT	TM2AMI2LT	TM2AMI4LT	TM2AMI8HT	TM2ARI8LRJ TM2ARI8LT	TM2ARI8HT

Type of module	Analog Inputs / Outputs				
Characteristics	1O Current/Voltage	2O Voltage	2I Current/Voltage 1O Current/Voltage	2I Temperature 1O Current/Voltage	4I Current/Voltage 2O Current/Voltage
References	TM2AMO1HT	TM2AVO2HT	TM2AMM3HT	TM2ALM3LT	TM2AMM6HT

Magelis Common accessories



1

Magelis USB accessories programmable in Vijeo Designer	Monolithic Tower Lights Ø 60 mm lens size, IP 42		Illuminated Switch IP65, Ø 22 mm mounting	Biometric Switch IP65, Ø 22 mm mounting
Description, characteristics	With 3 multi-color LEDs and a clear lens, a 2-tone buzzer (up to 85 dB), with pre-assembled USB cable for easy connection (1), USB cable clamp to ensure firm connection		5 customizable function keys with multi-LED. Soft/static F-keys or alarms acknowledgement.	Manages access to HMI data, levels of authorization, traceability of users and operations. Database management from PC
	Direct base mounting	100 mm aluminium tube mounting + fixing plate		
Compatibility with Magelis	XBT GT/GK/GC; HMI GTO		XBT GT/GK/GC; HMI GTO/GTW; iPC	XBT GT/GK/GC; HMI STU/GTO/GTW; iPC
Reference	XVGU3SWV	XVGU3SHAV	HMIZRA1	XB5S5B2L2

(1) For connection to HMI, use either the Schneider Electric USB cable (BMXXCAUSBH018) or a third-party USB Type A/mini B cable of maximum length 4 m/13.12 ft.

Advanced Panels Accessories			
Type of accessories	Description or function	Type of terminal	Reference
Blank memory cards, industrial grade	Compact Flash 2 GB	XBT GT/GK; HMI GTW	HMIYCF0211
	Compact Flash 4 GB	HMI GTW only	HMIYCF0411
	Compact Flash 8 GB	HMI GTW only	HMIYCF0811
	SD card 4 GB	HMI GTO/GTW	HMI ZSD 4G
Remote USB port for terminals	Enables the USB port to be located remotely on the rear of the XBT terminal on a panel or enclosure door (Ø 21 mm fixing device)	For USB type A port	XBT ZGUSB
		For USB mini-B port	HMI ZSUSBB
USB fastenings Sold in lots of 5	Holds the USB connection in place	GT2**0 / GT4**0	XBT ZGCLP1
		GT5**0 / GT6**0 / GT7**0	XBT ZGCLP2
		XBT GK	XBT ZGCLP3
		HMI GTO/STO (USB type A)	HMI ZGCLP1
		HMI GTO/STO (USB type mini-B)	HMI ZSCLP3
		USB Type A - PC	XBT ZG935
Cables for application transfer - Terminal to PC		USB mini-B - PC	BMX XCAUSBH018
			HMI ZURS
Serial printer cable for XBT GT/GK/GTW terminals and HMI GTO panels			
Serial link isolation units	RS 232C/RS 485 (COM1) and RS 485 (COM2)	XBT GT2...0 to XBT GT7340; XBT GK; HMI GTO	XBT ZGI232
			XBT ZGI485
Stylus, Sold in lots of 5			XBT ZGPEN

Connection of Magelis terminals to fieldbuses			
Type of bus/ network	Connection components	Type of terminal	Reference
FIPWAY, FIPIO	USB gateway	XBT GT / GK - HMI GTO	TSXCUSBFIP
Modbus Plus	USB gateway	XBT GT / GK - HMI GTO	XBTZGUMP
		HMI GTW	TSXCUSBMBP
Profibus DP	Card on expansion bus	XBT GT / GK (1)	XBTZGPDP
Device Net	Card on expansion bus	XBT GT / GK (1)	XBTZGDVN

Serial connection from HMI terminals to PLC/Drives (1)				
Type of PLC/Drives	Type of terminal	Connector/ Physical link	Length	Reference
Twido, Premium, Micro	XBT GT / GK - HMI GTO (COM1)	Mini-DIN/RS232		TSX PCX 1031
M238/M258/M340, ATS, ATV	XBT GT / GK - HMI GTO (COM2)	RJ45/RS485	2.5m	XBT Z9980
ATV, ATS	XBT GT / GK - HMI GTO (COM2)	RJ45/RS485	1m	VW3A8306R10
M340	USB	USB mini-B	1.8m	BMX XCAUSBH018
Siemens S7, Simatic MPI	XBT GT / GK - HMI GTO (COM1)	9-way SUB-D/RS232		XBT ZG9292
Siemens S7, Simatic PPI & MPI	XBT GT / GK - HMI GTO (COM2)	9-way SUB-D/RS485		XBT ZG9721
Rockwell, DF1-Full Duplex; Mitsubishi A Link	XBT GT / GK - HMI GTO (COM1)	25-way SUB-D/RS232		XBT ZG9731
XBT ZG9740,	XBT GT / GK - HMI GTO (COM1)	9-way SUB-D/RS232		XBT ZG9740
Mitsubishi FX CPU	XBT GT / GK - HMI GTO (COM1)	Mini-DIN 8/RS232		HMI Z951
Mitsubishi Q Link	XBT GT / GK - HMI GTO (COM1)	9-way SUB-D/RS232		XBT ZG9772
Mitsubishi Q CPU	XBT GT / GK - HMI GTO (COM1)	8-way mini-DIN/RS232		XBT ZG9774

(1) For the full list of connection accessories, please consult our site <http://www.schneider-electric.com>.



	Box PC Universal				
CPU & RAM types	Atom N270 1,6 Ghz Fanless with DDR2 RAM				
PCI Slots	1 PCI			2 (1 PCI + 1 PCIe)	
Operating System	WES 2009	XP PRO SP3			
Storage	CF >= 4Gb (SLC)	Flash disk SSD >= 60Go (5 year warranty)	HDD >= 500Go	Flash disk SSD >= 60Go (5 year warranty)	HDD >= 500Go
Integrated DVD-RW	–			1	
Slide-in	1 for storage			1 for storage + 1 for DVD-RW (or for storage with adapter)	
Power supply	24V DC				
Integrated ports	2 Ethernet Gigabit, 5 USB, 2 RS232, 1 DVI				
Optional	Battery-backup*, additional RS232/485 port, additional DVI for Box PC 2 slots, redundant RAID HDD by PC				
Overall dimensions W x H x D (mm)	82 x 270 x 251			121 x 270 x 251	
Industrial Certifications	CE, UL508 industrial control, cUL, ANSI/ISA 12.12.01 for hazardous locations, Gost, C-Tick				
Marine certification	Germany Loyd with power filter		–	Germany Loyd with power filter	–
Vijeo Designer	Vijeo Designer Run Time demo. Unlimited licence to be ordered separately (VJDSNRTMPC)				
1GB RAM	HMIBUCND1E01	HMIBUFND1P01	HMIBUHND1P01	HMIBUFND2P01	HMIBUHND2P01
Vijeo Citect Full 500 I/O, 2Gb RAM	–	HMIBUFND17F1		HMIBUFND2PF1	–

Configured iPC service

*Other configurations on request. Please consult our Customer Care Center.



	Box PC Performance			
CPU & RAM types	Core 2 Duo 2,26 Ghz Fan, with DDR3 RAM			
PCI Slots	2 (1 PCI + 1 PCIe)		5 (2 PCI + 3 PCIe)	
Operating System	Windows 7 64 bits Ultimate			
Storage	Flash disk SSD >= 60Go (5 year warranty)	HDD >= 500Go	Flash disk SSD >= 60Go (5 year warranty)	HDD >= 500Go
Integrated DVD-RW	1			
Slide-in	1 for storage + 1 for DVD-RW (or for storage with adapter)			
Power supply	24V DC			
Integrated ports	2 Ethernet Gigabit, 5 USB, 2 RS232, 1 DVI			
Optional	Battery-backup*, additional RS232/485 port, additional DVI, redundant RAID HDD by PCI			
Overall dimensions W x H x D (mm)	121 x 270 x 251		217 x 270 x 251	
Industrial Certifications	CE, UL508 industrial control, cUL, ANSI/ISA 12.12.01 for hazardous locations, Gost, C-Tick			
Marine certification	–			
Vijeo Designer	Vijeo Designer Run Time demo. Unlimited licence to be ordered separately (VJDSNRTMPC)			
2Gb RAM	HMIBPFDD2701	HMIBPHDD2701	HMIBPFDD5701	HMIBPHDD5701
Vijeo Citect Full 500 I/O, 4Gb RAM	HMIBPFDD27F1	–	HMIBPFDD57F1	–

Configured iPC service

*Other configurations on request. Please consult our Customer Care Center.



	15" touch & keypad	15" touch	15" touch	19" touch
Touchscreen	15" LCD TFT	15" LCD TFT	15" LCD TFT	19" LCD TFT
Resolution	XGA 1024x768	XGA 1024x768	XGA 1024x768	SXGA 1280x1024
Front side port	1 x USB			
Video ports	1 x VGA & 1 x DVI			
Touchscreen ports	1 x USB & 1 x RS 232			
Certification	UL508, CSA	UL508, CSA	UL508, CSA, Marine GL	UL508, CSA
Overall dimensions W x H x D (mm)	483 x 65 x 365	395 x 60 x 294	395 x 60 x 294	460 x 65 x 390
References	AC	MPCNB50NAN00N	MPCYT50NAN00N	MPCYT90NAN00N
	DC	—	—	HMIDID7DT0

PC Panel Magelis Panel PC 10", 15"



	Optimum Panel PC 10"	Optimum Panel PC 15"	Optimum Panel PC 15" with aluminium bezel
Touch screen	10" LCD TFT with LED, IP65	15" LCD TFT with LED, IP65	
Resolution	SVGA 800x600, 16 Million colors	XGA 1024x768, 16 Million colors	
CPU	Atom Z510 1,1 Ghz Fanless		
Operating System	WES 2009		
RAM	1 GB DDR2		
OS storage	CF 2Gb (SLC) CF 4Gb (SLC)		
User storage	SD card		
Power supply	24V DC		
Integrated ports	2 x Ethernet Gigabit, 1 USB front + 2 USB, 1 RS232		2xEthernet Gigabit, 2xUSB, 1xRS232
Overall dimensions W x H x D (mm)	323 x 260 x 72	402 x 301 x 72	
Industrial Certifications	CE, UL508 industrial control, cUL, ANSI/ISA 12.12.01 for hazardous locations, Gost, C-Tick, IP65 Nema 4X indoor		ATEX II 3 gas and dust zone 2/22 et EN1672-2 (Food processing machines) FDA 21 CFR 177.2006 (US standard Flat seals).
Marine certification		Germany Loyd with power filter	
Software	Office & PDF readers, Internet browser, .Net 3.5, Vijeo Designer RT demo (Unlimited licence to be ordered separately VJDSNRTMPC), Vijeo Citect web client		
Part number	HMIPWC5D0E01	HMIPWC5D0E01A	HMIPWC7D0E01
			HMIPV7D0E01

Configured iPC service

*Other configurations on request. Please consult our Customer Care Center.



Panel PC Universal 15"

Touch screen	15" LCD TFT with LED backlight, IP65, same cut-out than legacy				
Resolution	XGA 1024x768, 16 Million colors				
CPU & RAM types	Atom N270 1,6 Ghz Fanless with DDR2 RAM				
PCI Slots	–			2 (1 PCI + 1 PCIe)	
Operating System	WES 2009	XP PRO SP3			
Storage	CF >= 4Go (SLC)	Flash disk SSD >= 60Go (5 year warranty)	HDD >= 500Go	Flash disk SSD >= 60Go (5 year warranty)	HDD >= 500Go
Integrated DVD-RW	–			1	
Slide-in	1 for storage			1 for storage + 1 for DVD-RW (or for storage with adapter)	
Integrated ports	2 Ethernet Gigabit, 1 front USB + 4 USB, 2 RS232, 1 DVI				
Optional	Battery-backup*, additional RS232/485 port*			+ redundant RAID HDD by PCI	
Overall dimensions W x H x D (mm)	402 x 301 x 104			402 x 301 x 153	
Industrial Certifications	CE, UL508 industrial control, cUL, ANSI/ISA 12.12.01 for hazardous locations, Gost, C-Tick,				
Marine certification	Germany Loyd with power filter		–		
Vijeo Designer	Vijeo Designer Run Time demo. Unlimited licence to be ordered separately (VJDSNRTMPC)				
1GB RAM - DC power supply	HMIPUC7D0E01	HMIPUF7D0P01	HMIPUH7D0P01	–	HMIPUH7D2P01
Vijeo Citect Lite 1200 I/O, 2Gb RAM - DC	–	HMIPUF7D0PL1	–	–	–
1Gb RAM - AC power supply	–	HMIPUF7A0P01	HMIPUH7A0P01	HMIPUF7A2P01	HMIPUH7A2P01
Vijeo Citect Full 500 I/O, 2Gb RAM - AC	–	–	–	HMIPUF7A2PF1	–

Configured iPC service

*Other configurations on request. Please consult our Customer Care Center.



Panel PC Performance 15"

Touch screen	15" LCD TFT with LED backlight, IP65, same cut-out than legacy			
Resolution	XGA 1024x768, 16 Million colors			
CPU & RAM types	Core 2 Duo 2,26 Ghz Fan, with DDR3 RAM			
PCI Slots	–		2 (1 PCI + 1 PCIe)	
Operating System	Windows 7 64 bits Ultimate			
Storage	Flash disk SSD >= 60Go (5 year warranty)	HDD >= 500Go	Flash disk SSD >= 60Go (5 year warranty)	HDD >= 500Go
Integrated DVD-RW	–		1	
Slide-in	1 for storage		1 for storage + 1 for DVD-RW (or for storage with adapter)	
Integrated ports	2 Ethernet Gigabit, 1 front USB + 4 USB, 2 RS232, 1 DVI			
Optional	Battery-backup*, add. RS232/485 port*		+ redundant RAID HDD by PCI	
Overall dimensions W x H x D (mm)	402 x 301 x 118		402 x 301 x 168	
Industrial Certifications	CE, UL508 industrial control, cUL, ANSI/ISA 12.12.01 for hazardous locations, Gost, C-Tick,			
Vijeo Designer	Vijeo Designer Run Time demo. Unlimited licence to be ordered separately (VJDSNRTMPC)			
2Gb RAM - DC power supply	HMIPPF7D0701	HMIPPH7A0701	–	HMIPPH7D2701
2Gb RAM - Battery back-up interface - DC	–	–	–	HMIPPH7B2701
Vijeo Citect Full 500 I/O, 4Gb RAM - DC	HMIPPF7D07F1	–	–	–
2Gb RAM - AC power supply	–	HMIPPH7D0701	HMIPPF7A2701	HMIPPH7A2701
Vijeo Citect Full 500 I/O, 4Gb RAM - AC	–	–	HMIPPF7A27F1	–

Configured iPC service

*Other configurations on request. Please consult our Customer Care Center.



Panel PC Universal 19"

19" LCD TFT with LED backlight, IP65				
SXGA 1280x1024, 16 Million colors				
Atom N270 1,6 Ghz Fanless with DDR2 RAM				
–			2 (1 PCI + 1 PCIe)	
WES 2009	XP PRO SP3			
CF =< 4Gb (SLC)	Flash Disk =<32Go (SSD SLC)	HDD =<250Go	Flash Disk =<32Go (SSD SLC)	HDD =<250Go
–			1	
1 for storage			1 for storage + 1 for DVD-RW (or for storage with adapter)	
2 Ethernet Gigabit, 1 front USB + 4 USB, 2 RS232, 1 DVI				
Battery-backup*, additional RS232/485 port*			+ redundant RAID HDD by PCI	
480 x 380 x 114			480 x 380 x 153	
CE, UL508 industrial control, cUL, ANSI/ISA 12.12.01 for hazardous locations, Gost, C-Tick,				
Germany Loyd with power filter		–		
Vijeo Designer Run Time demo. Unlimited licence to be ordered separately (VJDSNRTMPC)				
HMIPUC9D0E01	HMIPUF9D0P01	HMIPUH9D0P01	–	HMIPUH9D2P01
–	HMIPUF9D0PF1	–	–	–
–	–	HMIPUH9A0P01	HMIPUF9A2P01	HMIPUH9A2P01
–	–	–	HMIPUF9A2PF1	–

*Other configurations on request. Please consult our Customer Care Center.



Panel PC Performance 19"

19" LCD TFT with LED backlight, IP65			
SXGA 1280x1024, 16 Million colors			
Core 2 Duo 2,26 Ghz Fan, with DDR3 RAM			
–		2 (1 PCI + 1 PCIe)	
Windows 7 64 bits Ultimate			
Flash Disk =<32Go (SSD SLC)	HDD =<250Go	Flash Disk =<32Go (SSD SLC)	HDD =<250Go
–		1	
1 for storage		1 for storage + 1 for DVD-RW (or for storage with adapter)	
2 Ethernet Gigabit, 1 front USB + 4 USB, 2 RS232, 1 DVI			
Battery-backup*, add. RS232/485 port*		+ redundant RAID HDD by PCI	
480 x 380 x 129		480 x 380 x 168	
CE, UL508 industrial control, cUL, ANSI/ISA 12.12.01 for hazardous locations, Gost, C-Tick,			
Vijeo Designer Run Time demo. Unlimited licence to be ordered separately (VJDSNRTMPC)			
HMIPPF9D0701	HMIPPH9D0701	–	HMIPPH9D2701
–	–	–	–
HMIPPF9D07F1	–	–	–
–	HMIPPH9A0701	HMIPPF9A2701	HMIPPH9A2701
–	–	HMIPPF9A27F1	–

*Other configurations on request. Please consult our Customer Care Center.

Vijeo Designer configuration software enables creation of automated system control operator dialogue applications for Magelis STO/STU, XBT GT, GK, GTW, GH, GTO terminals, Box PC and Panel PC.

Configuration

Vijeo Designer configuration software enables fast, simple processing of operator dialogue projects thanks to its ergonomics, developed around 6 configurable windows.

It also offers comprehensive application management tools:

- . Project creation (one or several targets).
- . Recipe editor
- . User action list (eg. script) for application adaptability.
- . Vectorial graphic library for more attractive graphic screens.
- . Simulation mode for simple design office application testing.
- . High-performance graphic editor for simple block diagram creation (over 30 animated preconfigured generic objects).
- . Data sharing (up to 300 variables on 8 terminals).
- . Management of 40 alphabets with the opportunity to have 15 languages per application and dynamic change.
- . Programmable controller database sharing (Unity Pro, PL7, Concept, TwidoSoft, ProWORX, ModSoft), process variables or operators actions
- . Advanced traceability function (periodic, at event or on request).
- . Event-triggered e-mail function
- . Over 35 third party protocols
- . Printing function
- . Multilingual software : English, French, German, Italian, Spanish, Portuguese and Simplified Chinese.

The Vijeo Designer Limited Edition, free access allows you to configure the Magelis STO/STU.

Industrial intelligence option: Intelligent Data Service

Intelligent Data Service (IDS) is an extension of Vijeo Designer for the PC (Magelis or standard PC) which supports the implementation of control solutions for one or a number of terminals (up to 8). This extension offers total traceability. Both process variables and operator actions are tracked so that the right decisions can be made at the right time (Industrial Business Intelligence). Powerful Data can be collected from multiple terminals via Ethernet without impairing HMI reaction times.

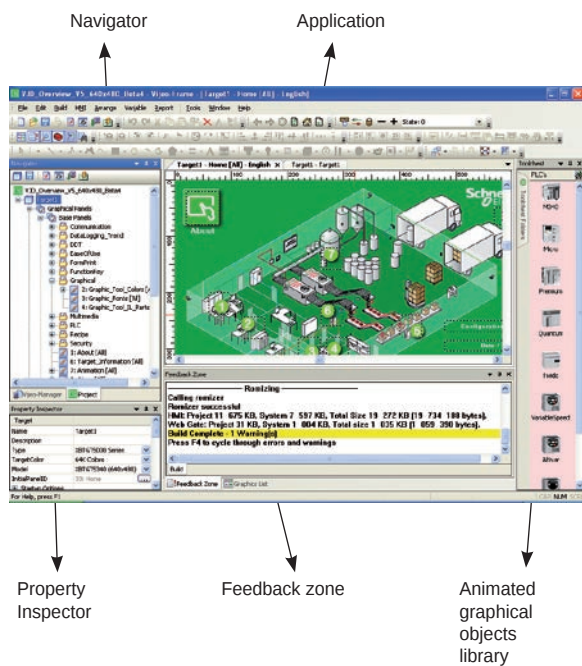
Flexible Various storage methods are supported, CSV file can be read directly in MS Excel, recording in user-defined format in an SQL database or secure IDV (Intelligent Data Vault) files to ensure compatibility with the requirements of 21 CFR Part 11.

Intelligent Data Service Report Printing option

Intelligent Data Service (IDS) Report Printing is an extension of Intelligent Data Service for the PC (Magelis or Standard PC).

This extension allows you to create new reports “from scratch” and link them to IDS data.

In addition to editing functions, IDS Report Printing allows you to preview the report before printing, print it or save it to file on disk.





Vijeo Designer



Vijeo Designer IDS

Selection guide for Vijeo Designer

Number of licences	Composition	References
Single (1)	No cable With USB cable	VJDSNDTGSV●●M VJDSUDTGSV●●M
Group (3)	No cable	VJDGNDTGSV●●M
Team (10)	No cable	VJDTNDTGSV●●M
Facility (Unlimited)	No cable	VJDFNDTGSV●●M

The software is supplied on DVD and runs under Windows® XP and Windows 7.

●● represent the version number.

Run Time on Magelis iPC

Single (1)	VJDSNRTMPC
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Run Time Intelligent Data Service

Single (1)*	VJDSNTRCKV●●M
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* Need a registered Run Time for Magelis iPC

Run Time Intelligent Data Service Report Printing

Single (1)*	VJDSNTRPR●●M
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* Need a registered Run Time for Intelligent Data Service



Vijeo Design'Air

Remote access

Vijeo Design'Air is Schneider Electric's application for Android and iOS tablets and smartphones. This feature enables you to remotely connect to an HMI terminal over a WiFinetwork and have a graphical view of the HMI terminal on your tablet and smartphone (2).

> HMI AUTO-DETECT

Vijeo Design'Air scans and detects available on HMI terminals on a nearby network.

> REMOTE MONITORING

Vijeo Design'Air connects tablets and smartphones to HMI terminals, and allows remote viewing and controlling of HMI projects at run time.

> ADVANCED SCREEN

Vijeo Design'Air takes advantage of the advanced graphic and multi-touch capabilities of tablets and smartphones and applies it to the automation industry.

(2) Available in 2014 for Magelis iPC industrial PC and for Magelis SCU HMI Controllers.