

1 | Operator Dialog

Harmony, simple and innovative solutions that solve all your problems

World leader in control and signalling components, Schneider Electric continues its policy of innovation within the Harmony ranges in order to perfect the efficiency of your dialogue solutions.



Invest with complete peace of mind!



The assurance of finding the solution for any application

An offer unrivalled in content and complementarity
Optimised cost saving solutions due to increased flexibility of the offers, enabling multiple combinations and full compatibility



The assurance of reliable components in any situation

Robust products that comply to the highest quality standards



The assurance of saving valuable time

Simple selection and quick installation for all Harmony components

Contents



1 Pushbuttons, switches and pilot light



2 Cam switches



3 Signalling solutions



4 Control stations



5 Joystick controllers

Pushbuttons, switches and pilot lights

- Pushbuttons, switches and pilot lights Ø 16 with plastic bezel, **Harmony XB6** 1/2 to 1/4
- LED pilot lights Ø 8 and 12
Harmony XVL 1/5
- Pushbuttons, switches and pilot lights Ø 22 with metal bezel, **Harmony XB4** 1/6 to 1/9
- Pushbuttons, switches and pilot lights Ø 22 with plastic bezel, **Harmony XB5** 1/10 to 1/12
- Biometric switch, **Harmony XB5S** 1/11
- Control stations
Harmony XAL 1/13
- Monolithic pushbuttons, switches and pilot lights Ø 22 with plastic bezel, **Harmony XB7** 1/14 and 1/15
- Pushbuttons, switches and pilot lights Ø 30 with metal or plastic bezel, **Harmony 9001** 1/16 to 1/19
- Cam switches
Harmony Series K 1/20 and 1/21

Signalling solutions

- Ø 40, 60, 100 mm monolithic tower lights
Harmony XVC 1/22
- Ø 45 mm beacons and tower lights, accessories
Harmony XVDLS / XVC 1/23
- Ø 70 mm modular tower lights (IP 66)
Harmony XVB 1/24
- Ø 70 mm modular tower lights (up to IP 54)
Harmony XVE 1/25
- Ø 45, 50 mm modular tower lights (up to IP 54)
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- Modular tower lights accessories
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- Ø 84, 106, 120, 130 mm rotating mirrors
Harmony XVR 1/28
- Accessories for rotating mirror beacons
Harmony XVR 1/29
- Electronic alarms and multisound sirens
Harmony XVS 1/29

Components for hoisting applications

- Pendant control stations
Harmony XAC 1/30 and 1/31
- Joystick controllers and controller stations & desks
Harmony XK / XJ (consult Customer Care Centre at 1-800-565-6699)

Human/Machine Interfaces

- Contents 1/35

(1):

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



Illuminated pushbuttons

Type of head		Flush push
Shape of head		rectangular (2)
Degree of protection		IP 65 / Nema 4, 4X, 13 / Class II
Mounting (mm)	panel cut-out mounting centres	$\varnothing 16.2^{+0.2}_0$ 24 x 18 with rectangular head, 18 x 18 with square or circular head
Dimensions (mm)	W x H x D (below head)	24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head
Connection (3)		Tags for 2.8 x 0.5 Faston connectors or for soldering
Type of push		Spring return

		Complete products	Products for user assembly			
		12 ... 24 V AC/DC				
References	white ●	NO	XB6DW1B1B	ZB6E●1B (1)	ZB6Z1B	ZB6DW1
		NO + NC	XB6DW1B5B	ZB6E●1B (1)	ZB6Z5B	ZB6DW1
	green ●	NO	XB6DW3B1B	ZB6E●3B (1)	ZB6Z1B	ZB6DW3
		NO + NC	XB6DW3B5B	ZB6E●3B (1)	ZB6Z5B	ZB6DW3
	red ●	NC	XB6DW4B2B	ZB6E●4B (1)	ZB6Z2B	ZB6DW4
		NO + NC	XB6DW4B5B	ZB6E●4B (1)	ZB6Z5B	ZB6DW4
yellow ●	NO	–	ZB6E●5B (1)	ZB6Z1B	ZB6DW5	
	NO + NC	XB6DW5B5B	ZB6E●5B (1)	ZB6Z5B	ZB6DW5	

		Latching				
References	white ●	NO	–	ZB6E●1B (1)	ZB6Z1B	ZB6DF1
		NO + NC	XB6DF1B5B	ZB6E●1B (1)	ZB6Z5B	ZB6DF1
	green ●	NO	XB6DF3B1B	ZB6E●3B (1)	ZB6Z1B	ZB6DF3
		NO + NC	XB6DF3B5B	ZB6E●3B (1)	ZB6Z5B	ZB6DF3
	red ●	NC	XB6DF4B2B	ZB6E●4B (1)	ZB6Z2B	ZB6DF4
		NO + NC	XB6DF4B5B	ZB6E●4B (1)	ZB6Z5B	ZB6DF4
yellow ●	NO	–	ZB6E●5B (1)	ZB6Z1B	ZB6DF5	
	NO + NC	–	ZB6E●5B (1)	ZB6Z5B	ZB6DF5	



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 ●	XB6DV1BB	ZB6E●1B (1)	ZB6DV1
	green ●	XB6DV3BB	ZB6E●3B (1)	ZB6DV3
	red ●	XB6DV4BB	ZB6E●4B (1)	ZB6DV4
	yellow ●	XB6DV5BB	ZB6E●5B (1)	ZB6DV5
	blue ●	–	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



1

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 mounting centres	$\varnothing 16.2^{+0.2}_0$			
Dimensions (mm)	W x H x D (below head)	24 x 18 with rectangular head, 18 x 18 with square or circular head			
Connection (2)		24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head			
Type of push		Tags for 2.8 x 0.5 Faston connectors or for soldering			
		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, Ronis 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. Please consult your Regional Sales Office for a full explanation of these standards and directives.

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Selector switches and key switches

Type of head		Black handle
Shape of head		rectangular (2)
Degree of protection		IP 66 / Nema 4, 4X, 13 / Class II
Mounting (mm)	panel cut-out mounting centres	Ø 16.2 ^{+0.2} ₀
Dimensions (mm)	W x H x D (below head)	24 x 18 with rectangular head, 18 x 18 with square or circular head
Connection (3)		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				
References	NO	XB6DD221B	ZB6Z1B	ZB6DD22	ZB6Z1B	ZB6DD24
	NO + NC	XB6DD225B	ZB6Z5B	ZB6DD22	ZB6Z5B	ZB6DD24
Number and type of positions		3 positions stay put				
References	NO	XB6DD235B	ZB6Z5B	ZB6DD23	ZB6Z5B	ZB6DD25



Key switches

Type of operator		Ronis key, n° 200				
		Complete products	Products for user assembly			
Number and type of positions		2 positions stay put				
References	NO + NC	XB6DGC5B	ZB6Z5B	ZB6DGC	ZB6Z5B	ZB6DGB
Number and type of positions		3 positions stay put				
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		
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.

LED pilot lights Ø 8 and 12

(1):

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



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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	
Degree of protection		IP 40, IP 65 with seal (2)			
Mounting (mm)	panel cut-out	Ø 8.2 mm		Ø 8.2 mm	
	mounting centres	12.5 x 12.5 mm		10.5 x 10.5 mm	
Dimensions (mm)	Ø x Depth (below head)	Ø 12 x 32		Ø 10 x 34	
Connection		Tags (3)		Threaded connectors	
References (1)	green ●	XVLA1●3		XVLA2●3	
	red ●	XVLA1●4		XVLA2●4	
	yellow ●	XVLA1●5		XVLA2●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: U _e = 240 V and I _e = 1.5 A or U _e = 120 V and I _e = 3 A		Positive operation of contacts conforming to IEC/EN 60947-5-1: 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 (Sold in lots of 10)*	ZB6Y003 (Sold in lots of 10)		ZB6Y905 (Sold in lots of 2)	ZB6Y018 (Sold in lots of 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 (Sold in lots of 100)	ZB6Y005 (Sold in lots of 10)			

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
Pushbuttons, spring return

Type of head									Chromium plated circular bezel								
Degree of protection		IP 66 / Nema 4X, 13 / Class I															
Mounting (mm)		panel cut-out		Ø 22.5 (22.4 ^{+0.4} ₀ recommended)													
		mounting centres		30 (horizontal) x 40 (vertical)													
Depth (mm)		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	XB4BA21	ZB4BZ101	ZB4BA2	XB4BP21	ZB4BZ101	ZB4BPA2	green ●	NO	XB4BA31	ZB4BZ101	ZB4BA3	XB4BP31	ZB4BZ101	ZB4BPA3
		red ●	NC	XB4BA42	ZB4BZ102	ZB4BA4	XB4BP42	ZB4BZ102	ZB4BPA4	yellow ●	NO	XB4BA51	ZB4BZ101	ZB4BA5	XB4BP51	ZB4BZ101	ZB4BPA5
		blue ●	NO	XB4BA61	ZB4BZ101	ZB4BA6	XB4BP61	ZB4BZ101	ZB4BPA6								
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						
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)

Type of push		Trigger action (EN/ISO 13850)							
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. Please consult your Regional Sales Office for a full explanation of these standards and directives.

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 black ● NO + NO	XB4BG61 -	ZB4BZ101 ZB4BG6 - -	- XB4BG33	- ZB4BZ103 ZB4BG3		

Light functions

1



Pilot lights

Type of head		Circular bezel					
Degree of protection		Smooth lens cap					
Mounting (mm)	panel cut-out mounting centres	IP 66 / Nema 4X, 13 / Class I Ø 22.5 (22.4 ^{+0.4} ₀ recommended)					
Depth	below head	30 (horizontal) x 40 (vertical)					
Connection (1)		43					
Light source		Screw clamp terminals			Integral LED		
	Products	Complete			Direct supply for BA 9s bulb (not included)		
					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



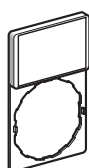
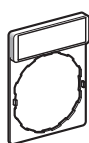
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Electrical blocks (1) (2)

	Single contact blocks		Light blocks with integral LED				Light block, direct supply	
Rated operational characteristics	AC-15, 240 V - 3 A		Consumption					
Positive operation of contacts conforming to IEC/EN 60947-5-1	NC contacts with positive opening operation		18 mA	24 V AC/DC				
			14 mA	120 V AC				
			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 (Sold in lots of 5)	NO	ZBE101	ZBE1015	white	ZBVB1	ZBVG1	ZBVM1	ZBV6
	NC	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	XAPM1201H2	-	-	-	XAPM1202H2	-	-
	80 x 130 mm	-	XAPM2202H2	XAPM2203H2	-	-	XAPM2204H2	-
	80 x 175 mm	-	-	XAPM3203H2	XAPM3204H2	-	-	XAPM3206H2



Accessories (2)

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

References (Sold in lots of 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 (Sold in lots of 10)	Blank	ZBY6101						ZBY6102

Ø 60 mm legend for mushroom head Emergency stop pushbutton

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

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

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

1



Pushbuttons, spring return

Type of head		Circular bezel
Degree of protection		IP 66 / Nema 4X, 13 / Class II
Mounting (mm)	panel cut-out mounting centres	Ø 22.5 (22.4 ^{+0.4} ₀ recommended) 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	ZB5APA2
	green ● NO	XB5AA31	ZB5AZ101	ZB5AA3	XB5AP31	ZB5AZ101	ZB5APA3
	red ● NC	XB5AA42	ZB5AZ102	ZB5AA4	XB5AP42	ZB5AZ102	ZB5APA4
	yellow ● NO	XB5AA51	ZB5AZ101	ZB5AA5	XB5AP51	ZB5AZ101	ZB5APA5
	blue ● NO	XB5AA61	ZB5AZ101	ZB5AA6	XB5AP61	ZB5AZ101	ZB5APA6

Type of push		Flush			Mushroom head, Ø 40 mm		
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	Products	Complete	For user assembly		Complete	For user assembly	
With international marking							
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)

Type of push		Trigger action (EN/ISO 13850)		
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. Please consult your Regional Sales Office for a full explanation of these standards and directives.

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 mounting centres	Ø 22.5 (22.4 ^{+0.4} ₀ recommended)			
Depth (mm)	below head	30 (horizontal) x 40 (vertical)			
Connection (1)		Screw clamp terminals			
Type of operator		Handle			
	Products	Complete	For user assembly	Complete	For user assembly
					
Number and type of positions		2 positions stay put 	2 positions stay put 	2 positions spring return to left 	2 positions spring return to left 
References	black ● NO	XB5AD21	ZB5AZ101 ZB5AD2	XB5AD41	ZB5AZ101 ZB5AD4
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	XB5AD33	ZB5AZ103 ZB5AD3	XB5AD53	ZB5AZ103 ZB5AD5
Type of operator		Key, n° 455			
Number and type of positions		2 positions stay put 	2 positions stay put 	2 positions stay put 	2 positions stay put 
References	black ● NO	XB5AG21	ZB5AZ101 ZB5AG2	XB5AG41	ZB5AZ101 ZB5AG4

(2) The symbol  indicates key withdrawal position.



Biometric switch

Degree of protection	IP65			
Dimension WxHxD (mm)	69,3 x 54 x 78,5 (total depth : front + rear)			
Mounting (mm)	Ø 22.5			
Depth (mm)	39,7			
Supply voltage	24 VDC			
Output	PNP - monostable		PNP - bistable	
Connection	2m cable	M12 connector	2m cable	M12 connector
References	XB5S1B2L2	XB5S1B2M12	XB5S2B2L2	XB5S2B2M12

	Body/fixing collar	Fixing nut	Bezel tool	Plate
	for electrical block (contact or light)	for head	for tightening fixing nut ZB5AZ901	anti-rotation
References	ZB5AZ009 (Sold in lots of 10)	ZB5AZ901 (Sold in lots of 10)	ZB5AZ905	ZB5AZ902

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

(2) Refer to page 9 for Electrical blocks and accessories used with Harmony XB5plastic range

1



Pilot lights

Type of head		Circular bezel					
Degree of protection		Smooth lens cap					
Mounting (mm)	panel cut-out mounting centres	IP 66 / Nema 4X, 13 / Class II Ø 22.5 (22.4 ^{+0.4} ₀ recommended)					
Depth	below head	30 (horizontal) x 40 (vertical) 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	XB5AW73731M5	-	-	-

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

Separate components and accessories: see previous page.

(1):

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



Complete stations with 1 pushbutton, selector switch or key switch

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

Degree of protection	IP 65 / Nema 4X and 13 / Class II				
Dimensions (mm)	W x H x D 68 x 68 x 113 max. (with key release Ø 40 mushroom head pushbutton)				
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 projecting red p/b	1 2 position stay put selector switch or key switch
					Black handle
					Key n° 455 (key withdrawal LH pos.)
References	NO	I	XALD102H7	–	–
		O - I	–	–	XALD134H7
		O	–	XALD115H7	–
					XALD144H7

(1) Empty enclosures:

Basic reference: XALK0●H7, 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	XALK178H7	XALK188H7	
	NC + NC	XALK178FH7	XALK188FH7	
	NO + NC	XALK178EH7	XALK188EH7	
	NC + NC + NO	XALK178GH7	XALK188GH7	

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



(1) Empty enclosures:

Basic reference: XALD0●H7, 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
	Marking		On spring return push		3 functions
Number and type of pushbutton/pilot light			1 flush green p/b	1 flush green pushbutton	1 flush white p/b
			1 flush red p/b	1 flush red pushbutton	1 flush red p/b
				1 red pilot light with integral LED	1 Ø 30 red mushroom head p/b
				24 V AC/DC	1 flush black p/b
References	NO + NC	I - O	XALD213H7	XALD363BH7	–
		Start - Stop	XALD215H7	–	–
	NO + NO	↑ ↓	–	–	XALD222H7
	NO + NC + NO	↑ ○ ↓	–	–	–
					XALD324H7
					XALD328H7

Accessories	Standard contact blocks		Light blocks with integral LED, colour red	
Description	NO contact	NC contact	24 V AC/DC	230 V AC
References	ZENL1111	ZENL1121	ZALVB4	ZALVM4

1







Pushbuttons

Type of head		Flush or projecting push	circular	
Degree of protection			IP 65, class II	
Mounting (mm)	panel cut-out mounting centres		Ø 22.4 (0 +0.1) 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 mm ² to 1 x 1.5 mm ²	
Type of push		Flush, spring return	Flush, push and latching	
References (Sold in lots of 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	–	XB7EL4232
	white 	NO	XB7NA11341	–
	black 	NO	XB7NA21341	–
		NO + NC	XB7NA25341	–





Selector switches and key switches

Type of operator		Black handle		Ronis key, n° 455	
Number and type of positions		2 positions stay put 	3 positions stay put 	2 positions stay put 	3 positions stay put 
References (Sold in lots of 10)	NO	XB7ND21	–	XB7NG21	–
	NO + NC	XB7ND25	–	–	–
	2 NO	–	XB7ND33	–	XB7NG33



Ø 40 mushroom head pushbuttons (1)

Type of push		Turn to release	Key release, Ronis 455	
References (Sold in lots of 10)	red 	NC	XB7ES542P	XB7ES142P
	red 	NO + NC	XB7ES545P	XB7ES145P

(1) Mushroom head switching off mechanical latching pushbuttons conform to standard IEC 60364-5-53 and EN/IEC 60947-5-5. For mushroom trigger action and mechanical latching head Emergency stop pushbuttons conforming to standard EN/IEC 60204-1 and EN/ISO 13850, to Machinery directive 2006/42/EC and standard EN/IEC 60947-5-5, use an Emergency stop type XB5A●●●●● or XB5AS●●●●● from the Harmony® range. See page 2/10.


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
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 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 (Sold in lots of 10)	green ● NO	XB7NW33●1 (1)	XB7NW3361
	red ● NO	XB7NW34●1 (1)	XB7NW3461
	● NC	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 (Sold in lots of 10)	green ● NO	XB7NH03●1 (1)	XB7NH0361
	red ● NO	XB7NH04●1 (1)	XB7NH0461
	● NC	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 (Sold in lots of 10)	clear ●	XB7EV07● (1)	XB7EV67	XB7EV77
	green ●	XB7EV03● (1)	XB7EV63	XB7EV73
	red ●	XB7EV04● (1)	XB7EV64	XB7EV74
	yellow ●	XB7EV05● (1)	XB7EV65	XB7EV75
	blue ●	XB7EV06● (1)	XB7EV66	XB7EV76
	orange ●	XB7EV08● (1)	XB7EV68	XB7EV78

Incandescent bulbs, long life

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

References	6 V (1.2 W)	24 V (2 W)	130 V (2.4 W)
	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.

1



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 mounting centres	Ø 31		
Depth below head (mm)		57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)		
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 Ø 41 mushroom head Ø 35 mushroom head	Turn-to-Release, trigger action Ø 40 red mushroom head		
Degree of protection	IP 66 / Nema 1, 2, 3, 3R, 4, 6, 12 and 13 / Class II			
Mounting (mm)	panel cut-out mounting centres	Ø 31		
Depth below head (mm)	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)		
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 trigger action and mechanical latching head Emergency stop 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 2/19



Selector switches and key switches

Type of operator	positions (2)	Long black handle	3 - spring return	2 - stay put	2 - spring return	3 - stay put	Key, n° 455
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 mounting centres	Ø 31					
Depth below head (mm)		57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)					
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)
		24 V AC/DC	48 V AC/DC	120 V AC/DC	230 V AC/DC
Type of head		2 position, push-pull			
References	red ●	CO 9001KR9P35RH13	9001KR9P36RH13	9001KR9P38RH13	9001KR9P7RH13
Type of head		3 position, push-pull (pull: spring return, centre: stay put, push: spring return)			
References	red ●	NC + NC late break 9001KR8P35RH25	9001KR8P36RH25	9001KR8P38RH25	9001KR8P7RH25

1



Pushbuttons, spring return

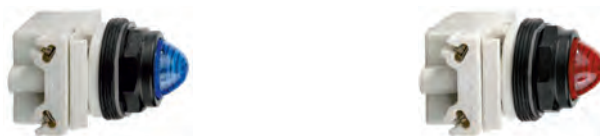
Type of push		Flush	Projecting	Projecting (high guard)
Colour of push		Multi-colour (set of 7 clip-in coloured caps)		
Degree of protection		IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 12 and 13 / Class II		
Mounting (mm)	panel cut-out mounting centres	Ø 31		
Depth below head (mm)		57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)		
Connection		Screw clamp terminals		
References	CO	9001SKR1UH13	9001SKR3UH13	9001SKR2UH13
	NO	9001SKR1UH5	9001SKR3UH5	9001SKR2UH5



Type	Selector switches			Mushroom head pushbuttons (1) Emergency stop	
Type of operator	positions	Long black handle 2 - stay put	2 - spring return	3 - stay put	Turn-to-Release, trigger action Ø 40 red mushroom head
Number and type of positions					
Degree of protection		IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 12 and 13 / Class II			IP 66 / Nema 1, 2, 3, 3R, 4, 4X, 6, 12 and 13 / Class III
Mounting (mm)	panel cut-out mounting centres	Ø 31			57,2 x 44,5 (without legend plate), 100 x 100 ((with legend plate 9001KN8330) (2)
Depth below head (mm)		57.2 x 44.5 (with legend 9001KN2●●), 57.2 x 50.8 (with legend 9001KN3●●)			60
Connection		Screw clamp terminals			
References	-	-	-	-	9001SKR16
	NO	9001SKS11FBH5	9001SKS34FBH5	-	9001SKR16H13
	CO	-	-	9001SKS43FBH1	-
	2NO + 2NC	-	-	-	9001SKR16H2

(1) Mushroom trigger action and mechanical latching head Emergency stop 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 2/19



Pilot lights

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

Accessories



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

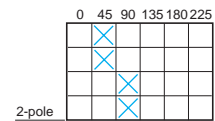
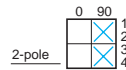
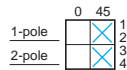


Legends

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 (°)

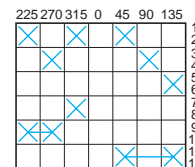
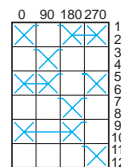
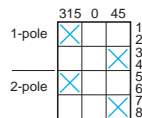


Cam switches, K1 / K2 series

Function	Switches	ON-OFF switches	Stepping switches
Degree of protection front face	45° switching angle IP 65 (1)	90° switching angle IP 65 (1)	with "0" position 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 K1D012QLH K2D012QLH
	Plastic mounting plate for Ø 22 mm hole	K1B002ACH K2B 002ACH	K1B1002HCH K2B 1002HCH K1D012QCH K2D012QCH



positions (°)



Cam switches, K1 / K2 series

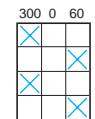
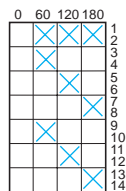
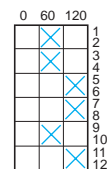
Function	Changeover switches	Ammeter switches	Voltmeter switches	
Degree of protection front face	IP 65 (1)	IP 65 (1)	IP 65 (1)	
Conventional thermal current (Ith)	12 A 20 A	12 A 20 A	12 A 20 A	
Rated insulation voltage (Ui) conforming to IEC60947-1	690 V	690 V	690 V	
Number of positions	2 + "0" position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



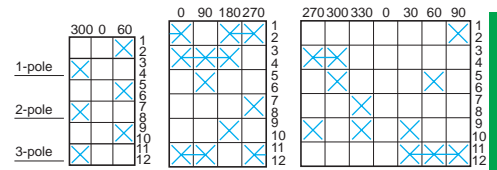
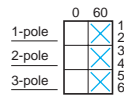
Cam switches with key operated lock, K1 series

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

10 to 150 A ratings



positions (°)



1

Cam switches, K10series

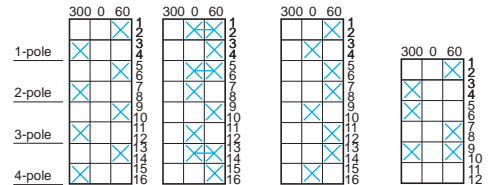
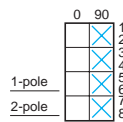
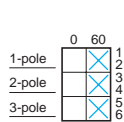
Function	Switches			Changeover switches		Ammeter switches	Voltmeter switches
Degree of protection front face	IP 65			with "0" position IP 65		IP 65	IP 65
Conventional thermal current (Ith)	10 A			10 A		10 A	10 A
Rated insulation voltage (Ui) conforming to IEC60947-1	440 V			440 V		440 V	440 V
Number of positions	2			2 + "0" position		3 + "0" pos. (1)	6 + "0" pos. (2)
Number of poles	1	2	3	2	3	3	3
Dimensions of front plate (mm)	30 x 30			30 x 30		30 x 30	30 x 30
Front mounting method By Ø 16 mm or 22 mm hole	K10A001ACH	K10B002ACH	K10C003ACH	K10D002UCH	K10F003UCH	K10F003MCH	K10F027MCH

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

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



positions (°)



Cam switches, K30series

Function	Switches	Switches	Changeover	Starting	Starting	Reversing	
Degree of protection front face	IP 40	ON-OFF IP 40	with "0" position IP 40	star-delta IP 40	2-speed 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)	K30H004PP (3)	K30E003WP (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 (Sold in lots of 5)		KZ65	KZ66	KZ73

1



Ø 40 mm / Up to IP54

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



Ø 60 mm / Up to IP54

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

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



Ø 100 mm / Up to IP54

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

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

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



Ø 45 mm / IP40

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

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

Accessories

XVDLS

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



XVC4 / XVC6

Mounting accessories	Tower lights Ø 40 mm, XVC4			Tower lights Ø 60 mm, XVC6		
	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

1



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.



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.

1



Ø 50 mm / IP65

Tower lights XVP comprising 2 to 5 signalling units (4), black clamping ring (5)		Base unit	Steady or flashing light signalling	"Flash" light signalling		Audible units (55...85 dB at 1 m)
Light source		–	Incandescent BA 15d bulb, 7 W max. (not included)	"Flash" discharge tube 0.3 J	"Flash" discharge tube 0.6 J	–
Degree of protection		IP 65				
Base unit	with cover	XVPC21	–	–	–	–
References (6)	250 V max.	–	XVPC3●	–	–	–
	24 V AC/DC (flash) - 24 V DC (buzzer)	–	–	XVPC6B●	–	XVPC09B
	120 V AC	–	–	–	XVPC6G●	XVPC09G
	230 V AC	–	–	–	XVPC6M●	XVPC09M

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

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

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



Bulbs		Beacons and tower lights XVB / XVP (1)			
Type of light source		Incandescent BA 15d base 7 W	Incandescent BA 15d base 10 W (not XVP)	LED (2) BA 15d base	Flashing LED (2) BA 15d base
References	12 V	DL1BEJ	DL1BLJ	–	–
	24 V	DL1BEB	DL1BLB	DL1BDB●	DL1BKB●
	48 V	DL1BEE	DL1BLE	–	–
	120 V	DL1BEG	DL1BLG	DL1BDG●	DL1BKG●
	230 V	DL1BEM	DL1BLM	DL1BDM●	DL1BKM●

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

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



Bulbs		Tower lights XVM / XVE			
Type of light source		Incandescent BA 15d base 5 W	LED (3) BA 15d base	Flashing LED (3) BA 15d base	"Flash" discharge tube, 0.8 Joule BA 15d base
References	24 V	DL1EDBS	DL2EDB●	DL1EKB●	DL6BB
	120 V	DL1EDGS	DL2EDG●	DL1EKG●	DL6BG
	230 V	DL1EDMS	DL2EDM●	DL1EKM●	DL6BM

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



Mounting accessories		Beacons and tower lights XVB / XVE		Tower lights XVP	
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
Diameter (mm)		Ø 25	Ø 25	Ø 20	Ø 20
Support tubes	60 mm	XVEZ13	–	–	–
	100 mm	–	–	–	XVPC02T
	112 mm	–	–	XVPC02 (4)	–
	120 mm	XVBZ02	–	–	–
	140 mm	–	XVDC02	–	–
	250 mm	–	–	–	XVPC03T
	260 mm	–	–	XVPC03 (4)	–
	400 mm	–	–	–	XVPC04T
	410 mm	–	–	XVPC04 (4)	–
	420 mm	XVBZ03	–	–	–
	820 mm	XVBZ04	–	–	–
Fixing plates,	for vertical support	XVBC12	–	XVPC12 (4)	–
	for horizontal support	XVBZ01	–	–	–

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

1



Ø 84 / 106 mm

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



Ø 120 mm

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



Ø 130 mm

Complete, pre-wired rotating mirror beacons		Ø 130 mm			
Light source (included)		" Super bright " LEDs			
Base mount		3 x Ø 09			
Buzzer		Without buzzer			
Degree of protection		IP66 - Resistant to vibration		IP66 and IP67	
Voltage		12V DC	24V DC	24V AC/DC	120V AC 230V AC
References	Red	XVR13J04	XVR13B04	XVR13B04L	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	Horizontal support	Horizontal support
Height (mm)		–	–	–	300
References	Ø 84 mm	XVRZR1	XVRZ081	XVCZ23	–
	Ø 106 mm	XVRZR2	XVRZ082	XVCZ23	XVCZ13
	Ø 120 mm	XVRZR3	–	XVCZ23	XVCZ13
	Ø 130 mm	XVRZR3	–	XVR012L	–

Electronic alarms and multisound sirens



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

1



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	lthe	10 A	
Connection	Screw clamp terminals, 1 x 2.5 mm ² or 2 x 1.5 mm ²		
For control of	single-speed motors 		2-speed motors
Dimensions (mm)	W x H x D	52 x 295 x 71 (x 85 with ZA2BS834)	52 x 295 x 71 (x 85 with ZA2BS834)
Number of operators	mechanically interlocked	2	
	Emergency stop	without	ZA2BS834
References		XACA201	XACA2014
			XACA207
			XACA2074



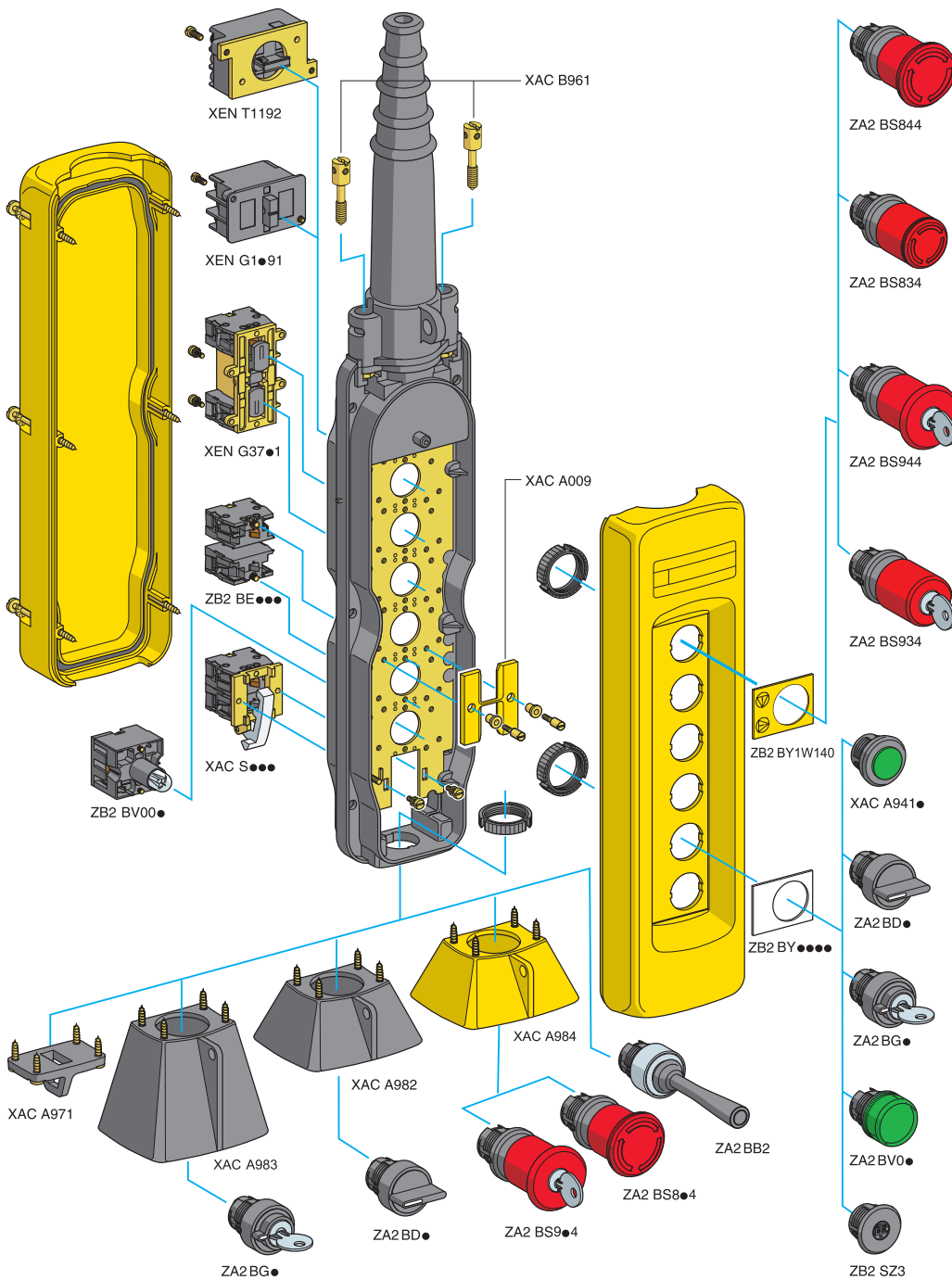
Type XACA			
For control of single-speed motors			
Dimensions (mm)	W x H x D	80 x 314 x 70 (x 90 with ZA2BS834)	80 x 440 x 70 (x 90 with ZA2BS844)
Number of operators	mechanically interlocked between pairs	2	
	Emergency stop	without	ZA2BS834
References		XACA271H7	XACA2714H7
			XACA471H7
			XACA4714H7



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	
	Emergency stop	without	ZA2BS844
References		XACA671H7	XACA6714H7
			XACA871H7

Empty enclosures type XACA							
Number of ways	2	3	4	5	6	8	12
References	XACA02H7	XACA03H7	XACA04H7	XACA05H7	XACA06H7	XACA08H7	XACA12H7

Separate components (for mounting in enclosures XACA)



Mushroom head, latching, trigger action (1)		
turn to release	Ø 40	ZA2BS844
	Ø 30	ZA2BS834

Mushroom head, latching, trigger action (1)		
key release	Ø 40	ZA2BS944
	Ø 30	ZA2BS934

Booted operators		
white		XACA9411
black		XACA9412

Selector switch		
2 pos. stay put	ZA2BD2	
3 pos. stay put	ZA2BD3	

Key switch		
key n° 455	2 pos. stay put	ZA2BG4
	3 pos. stay put	ZA2BG5

Pilot light heads		
white		ZA2BV01
green		ZA2BV03
red		ZA2BV04
yellow		ZA2BV05

Pilot light bodies		
direct supply	ZB2BV006	
direct supply, through resistor	ZB2BV007	

Blanking plug		
with seal and fixing nut	ZB2SZ3	

Isolating switch, slow break, for front mounting	
Emergency stop NC+NC+NC with positive opening operation	XENT1192

Contacts blocks for XACA941●	
Single-speed NC+NO	XENG1491
2-speed NC+NO+NO	XENG1191

Double blocks latching, slow break	
Single-speed NO+NO	XENG3781
Single-speed NO+NC	XENG3791

Contact blocks	
Single-speed NO	ZB2BE101
Single-speed NC	ZB2BE102

Contact blocks (for mounting in enclosure base)	
NO	XACS101
NC+NO	XACS105

Protective guard (for base mounted units)	
For selector switch	XACA982/983
For emergency stop pushbutton	XACA984

Legends, 30 x 40 mm	With symbols conforming to NF E 52-124							With text	
								START	STOP
References	ZB2BY4901	ZB2BY4903	ZB2BY4907	ZB2BY4909	ZB2BY4913	ZB2BY4915	ZB2BY4930	ZB2BY2303	ZB2BY2304
								blank	
References	ZB2BY2904	ZB2BY2906	ZB2BY2910	ZB2BY2912	ZB2BY2916	ZB2BY2918	ZB2BY2931	white or yellow background	
									ZB2BY1W140

(1) Trigger action mechanically latching Emergency stop pushbuttons conform to standards EN/IEC 60204-32, EN/ISO 13850, Machinery directive 2006/42/EC and standard EN/IEC 60947-5-5.

ZOOM



Vijeo Designer

Thanks to its intuitive design, Vijeo Designer - the single configuration software tool for Schneider Electric's entire HMI range - can process all your operator dialogue projects quickly and easily.

Magelis STO small graphic terminal configured by Vijeo Designer

The smallest-ever touch screen terminal

Magelis STO range is enlarged **with the support of Zelio and Ethernet protocols.**

Tool-free installation

- Terminals are mounted easily onto your enclosure using spring clips.

Exceptionally clear display

- Two monochrome versions are available in three colours - green/orange/red or white/pink/red - for enhanced readability. Several levels of grey, numerous character fonts and Vijeo Designer's extensive object library all help to provide exceedingly high-quality graphic animations.

One international software tool

- Available in more than 15 languages, all Vijeo Designer elements are available directly from the demonstration software via a simple download.

Ease of maintenance

- No batteries required, backlit by LEDs
- Removable power connector
- USB memory stick for application downloads

Communication capability

- Standard RJ45 serial port with Modbus, Zelio link, Ethernet protocols and other commercially-available third-party protocols
- 2 USB ports: 1 mini B port for downloading and 1 standard A port for USB memory stick and USB peripherals

For further informations, see page 1/36



Industrial PC new generation : Magelis Box PC , Magelis Panel PC

Modular Design

- Box and Panel based on latest components, software bundles, scalable and consistent range, on demand configured iPC service

Certified for automation

- UL508, Haz. Loc, ATEX, Marine. Rugged, long term availability

Ready for integration in IT structure

- Main microsoft OS including Windows 7, Large data storage & connectivity, Multi-tasking capabilities

Optimized

- Optimum 10" and 15" Panel PC certified for automation

The new offer of Magelis iPC consists of :

- 4x Box PC (+ 1x 15" DC Display)
 - 1, 2, 5 slots and 2 performance levels
- 12x Panel PC
 - 10", 15" (same cut-out as legacy), and 19"
 - 0, 2 slots and 3 performance levels

For further information, see page 1/44 to 1/47

Human/Machine Interfaces

Magelis, a complete offer of Human Machine Interfaces to meet your needs in a wide range of applications.

All in One

Small Panels

Magelis STO/STU, XBT N

Advanced Panels

Magelis XBT GT/GK/GTW/GH

HMI Controllers

Magelis XBTGC

PC Panels

Magelis Panel PC

BOX

PC BOX

Magelis Box PC

Display

Industrial Display

Magelis iDisplay

Configuration Softwares

Vijeo Designer Lite

Vijeo Designer

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1



Type		Characteristics				
Display	LCD screen size / Resolution	3.4" / monochrome (200 X 80 pixels)				
	Type	Green, orange, red	White, pink, red	Green, orange, red		
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, button, light, clock, flashing light, keypad				
	Curves / Alarm logs	Yes, with log / Yes, incorporated				
Communication	Serial link	1 RJ45 (RS 232 - RS 485)		1 Terminal Block RS232		
	Networks	–	–	–	Ethernet	Ethernet
Downloadable protocols		Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic), Uni-TE, Modbus, Modbus TCP		Zelio		
Development software		Vijeo Designer VJD●●●TG●V●●M (on Windows XP, Vista and 7) or Vijeo Designer Limited Edition				
Dimensions W x D x H (mm)		116,5 x 38,5 x 77,5				
Compatibility with PLCs		«Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340»		Zelio		
«Compact Flash» card slot		No				
USB port		1 Host type A + 1 Device type miniB				
Built-in Ethernet TCP/IP		No			Yes	
Supply voltage		24 VDC				
References		HMISTO511	HMISTO512	HMISTO501	HMISTO531	HMISTO532



Type		Characteristics	
Display	LCD screen size / Resolution	3.5" / QVGA (320 X 240 pixels)	5.7" / QVGA (320 X 240 pixels)
	Type	TFT 65 536 colours	
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, button, light, clock, flashing light, keypad	
	Curves / Alarm logs	Yes, with log / Yes, incorporated	
Communication	Serial link	1 RJ45 (RS 232 - RS 485)	
	Networks	Ethernet, IEEE 802.3, 10/100 BASE-T, RJ45	
Downloadable protocols		Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic), Uni-TE, Modbus, Modbus TCP	
Development software		Vijeo Designer VJD●●●TG●V●●M (on Windows XP, Vista and 7) or Vijeo Designer Limited Edition	
Dimensions W x D x H (mm)		Front: 98 x 16 x 81	Front: 163 x 17.5 x 129.5
		Rear : 118 x 30 x 98	
Compatibility with PLCs		Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340	
«Compact Flash» card slot		No	
USB port		1 Host type A + 1 Device type miniB	
Built-in Ethernet TCP/IP		Yes	Yes
Supply voltage		24 VDC	
References		HMISTU655	HMISTU855

Small Panel Magelis XBT N with matrix, semi-graphic screen (1)



Type		Characteristics			
Display	Capacity	2 lines, 20 characters		1 to 4 lines, 5 to 20 characters	
	Type	Back-lit LCD green		Back-lit LCD 3 colours green, orange, red	
Data entry		Via keypad with 8 keys (4 customizable keys)			
Function	Representation of variables	Alphanumeric		Alphanumeric, bargraph, curves, button and light	
	Alarm log	No	Yes	Yes	Yes
Communication	Serial link	1 RJ45 (RS 232 - RS 485)		1 Sub-D25 (RS 232 - RS 485) + 1 miniDin RS232 (2)	
Downloadable protocols		Uni-TE, Modbus Master		Uni-TE, Modbus Master, Siemens, Rockwell, Omron, Mitsubishi, Zelio (2)	
Development software		Vijeo Designer Lite (on Windows XP and Vista)			
Dimensions W x D x H (mm)		132 x 37 x 74			
Compatibility with PLCs		Twido, Modicon TSX Micro, Modicon Premium, Modicon M340		Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon Momentum, Modicon M340, Zelio (2)	
Supply voltages		5 VDC or PLC power supply		24 VDC	
References		XBTN200	XBTN400	XBTN410	XBTN401

(1) Except XBTN200: alphanumeric screen.

(2) For XBTN401 only

Magelis XBT N with matrix, semi-graphic screen, dedicated



Type		Characteristics	
Display	Capacity	1 to 4 lines, 5 to 20 characters	
	Type	Back-lit LCD green	
Data entry		Via keypad with 8 keys	
Function	Representation of variables	Alphanumeric, bargraph, curves, button and light	
	Alarm log	Yes	
Communication	Serial link	1 Sub-D25	
Downloadable protocols		Modbus	
Development software		Vijeo Designer Lite (on Windows XP and Vista)	
Dimensions W x D x H (mm)		132 x 37 x 74	
Compatibility with PLCs		Motor starter Tesy Model U	
Supply voltages		24 VDC	
References		XBTNU400	

1



Type		Characteristics		
Display	LCD screen size / Resolution	3.8" / QVGA		
	Type	STN monochrome, amber or red	TFT 256 colour	
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, button, light, clock, flashing light, keypad		
	Curves / Alarm logs	Yes, with log / Yes, incorporated		
Communication	Serial link	1 RJ45 (RS 232 - RS 485)		
	Networks	–	Ethernet, IEEE 802.3 10/100 BASE-T, RJ45	
Downloadable protocols	Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic) Uni-TE, Modbus, Modbus TCP			
Development software	Vijeo Designer VJD●●●TG●V●●M (on Windows XP, Vista and 7)			
Dimensions W x D x H (mm)	118 x 30 x 98			
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	1	
Built-in Ethernet TCP/IP	No	Yes		
Supply voltage	24 VDC			
References	XBTGT1105	XBTGT1135	XBTGT1335	

Magelis XBT GT with 5.7" touchscreen



Type		Characteristics						
Display	LCD screen size / Resolution	5.7" / QVGA					5.7" / VGA	
	Type	STN Monochrome Blue backlighting	Black and White backlighting	STN, colour 4096 colours	TFT, colour 65536 colours	High brightness backlighting		
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, button, light, clock, flashing light, keypad						
	Curves / Alarm logs	Yes, with log / Yes, incorporated						
Communication	Serial link	1 Sub-D9 (RS 232/RS 422 - RS 485) + 1 RJ45 (RS 485)						
	Networks	–	Ethernet, IEEE 802.3 10/100 BASE-T, RJ45	–	Ethernet, IEEE 802.3 10/100 BASE-T, RJ45	Ethernet 10/100 BASE-T	Ethernet, IEEE 802.3 10/100 BASE-T, RJ45	
Downloadable protocols	Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic) Uni-TE, Modbus, Modbus TCP/IP							
Development software	Vijeo Designer VJD●●●TG●V●●M (on Windows XP, Vista and 7)							
Dimensions W x D x H (mm)	167.5 x 60 x 135							
Compatibility with PLCs	Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340, Modicon Momentum							
«Compact Flash» card slot	No	Yes						
USB port Host type A	1							2
Video in	No							
Built-in Ethernet TCP/IP	No	No	Yes	No	Yes	Yes	Yes	
Supply voltage	24 VDC							
References	XBTGT2110	XBTGT2120	XBTGT2130	XBTGT2220	XBTGT2330	XBTGT2930	XBTGT2430	



Type		Characteristics						
Display	LCD screen size / Resolution	7.5" / VGA			10.4" / VGA			10.4" / SVGA
	Type (colour)	STN	TFT	TFT	STN	TFT	TFT	TFT
	Number of colours	4096	65536	65536	4096	65536	65536	65536
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, button, light, clock, flashing light, keypad						
	Curves / Alarm logs	Yes, with log / Yes, incorporated						
Communication	Serial link	1 Sub-D9 (RS 232/RS 422 - RS 485) + 1 RJ45 (RS 485)						
	Networks	Ethernet, IEEE 802.3 10/100 BASE-T, RJ 45						
Downloadable protocols		Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic) Uni-TE, Modbus, Modbus TCP/IP						
Development software		Vijeo Designer VJD●●●TG●V●●M (on Windows XP, Vista and 7)						
Dimensions W x D x H (mm)		215 x 60 x 170			313 x 56 x 239			271 x 57 x 213
Compatibility with PLCs		Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340						
«Compact Flash» card slot		Yes						
USB port Host type A		1	1	1	2	2	2	2
Video in		No	No	Yes	No	No	Yes	No
Built-in Ethernet TCP/IP		Yes						
Supply voltage		24 VDC						
References		XBTGT4230	XBTGT4330	XBTGT4340	XBTGT5230	XBTGT5330	XBTGT5340	XBTGT5430

Magelis XBT GT with 12.1" and 15" touchscreen



Type		Characteristics		
Display	LCD screen size / Resolution	12,1" / SVGA		15" / XGA
	Type (colour)	TFT		TFT
	Number of colours	65536		65536
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, button, light, clock, flashing light, keypad		
	Curves / Alarm logs	Yes, with log / Yes, incorporated		
Communication	Serial link	1 Sub-D9 (RS 232/RS 422 - RS 485) + 1 RJ45 (RS 485)		
	Networks	Ethernet, IEEE 802.3 10/100 BASE-T, RJ 45BASE-T, RJ 45		
Downloadable protocols		Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic) Uni-TE, Modbus, Modbus TCP/IP		
Development software		Vijeo Designer VJD●●●TG●V●●M (on Windows XP, Vista and 7)		
Dimensions W x D x H (mm)		313 x 56 x 239		395 x 60 x 294
Compatibility with PLCs		Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340		
«Compact Flash» card slot		Yes		
USB port Host type A		2		
Video in		No	Yes	Yes
Built-in Ethernet TCP/IP		Yes		
Supply voltage		24 VDC		
References		XBTGT6330	XBTGT6340	XBTGT7340

1



Type		Characteristics		
Display	Screen size / Resolution	5.7" / QVGA		10.4" / VGA
	Type	STN monochrome black and white	TFT Colour 65536 colours	
Data entry	Soft function keys with LED	14		18
	Static function keys with LED	10 + legends		12 + legends
	Service keys / Alphanumeric keys	8 / 12		
	Touchscreen and industrial pointer	Yes		
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, button, light, clock, flashing light, keypad		
	Curves	Yes, with log		
	Alarm logs	Yes		
Communication	Serial link	1 Sub-D9 (RS 232/RS 422 - RS 485) + 1 RJ45 (RS 485)		
	Networks	– Ethernet, IEEE 802.3 10/100 BASE-T, RJ 45		
Downloadable protocols	Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic) Uni-TE, Modbus, Modbus TCP/IP			
Development software	Vijeo Designer VJD●●●TG●V●●M (on Windows XP, Vista and 7)			
«Compact Flash» card slot	Yes			
Dimensions W x D x H (mm)	220.3 x 88 x 265	296 x 91 x 332	197 x 92.6 x 147	
Compatibility with PLCs	Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340			
USB port	1	1	2	
Video in	No	No	No	
Built-in Ethernet TCP/IP	No	Yes		
Supply voltage	24 VDC			
References	XBTGK2120	XBTGK2330	XBTGK5330	

Magelis XBT GTW with 8.4", 12", 15" touchscreen



Type		Characteristics		
Pre-installed Software	OS: Windows XP Embedded, Internet Explorer, Office & Acrobat Reader, .NET, Vijeo Designer Run Time unlimited			
	–	Vijeo Citect Web Client		
Touchscreen	8.4" LCD TFT	12" LCD TFT	15" LCD TFT	
Resolution	SVGA 800 x 600	SVGA 800 x 600	XGA 1024 x 768	
Front panel ports	–	1 x USB	1 x USB	
Processor	Celeron M @ 600 MHz	Celeron M @ 1GHz	Celeron M@1GHz	
RAM	512MB ▶ 1024MB	512MB ▶ 1024MB	1024MB	
Storage	CF 2GB expandable to 4GB	CF 2GB expandable to 4GB	CF 4GB	
Extension	–	1 x PCMCIA slot (for 1 type II card)	1 PCMCIA slot (for 1 type III card or 2 type I cards)	
Ethernet ports	2 (10/100/1G + 10/100)	2 (10/100/1G + 10/100)	2 (10/100/1G + 10/100)	
Ports I/O	4 x USB, 2 x RS232	4 x USB, 1 x RS232	4 x USB, 2 x RS232	
Power supply	24 VDC			
Dimension	230 x 65 x 177	313 x 60 x 239	395 x 65 x 294	
References	XBTGTW450	XBTGTW652	HMIGTW7353	



Type		Characteristics	
+ Screen			
Display	screen size / Resolution	5,7" / VGA	
	Type (colour)	TFT	
	Number of colours	65 536	
Data entry	Function keys	11 + label	
	Operaton key	1 with LED (validation touchscreen)	
Safety components	Key Switch	Yes for ON/OFF	
	3 positions Enable switch	Yes, OK signal in intermediate position only	
	Emergency stop	Yes, red with 2 safe contacts and one auxiliary contact	
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, button, light, clock, flashing light, keypad	
	Curves / Alarm historic	Yes, with log / Yes, incorporated	
Connection	32-pins connector (communication, alimentation, I/O)		
Downloadable protocols	Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic) Uni-TE, Modbus, Modbus TCP/IP		
Development software	Vijeo Designer VJD●●●TG●V●●M (on Windows XP, Vista and 7)		
«Compact Flash» card slot	Yes		
Dimensions W x D x H (mm)	224 x 174 x 87.1		
USB port	1		
Supply voltage	24 VDC		
Reference	XBT GH2460		
+ Cable interface		connection with junction box	
Type of connector	2 x 32-pins speed connectors		
Length	3 m	5 m	10 m
Reference	XBTZGHL3	XBTZGHL5	XBTZGHL10
+ Junction box		connection with PLCs	
Communcation	Serial link	1 SubD9 (RS232 / RS422 - RS 425)	
	Network	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 alimentation 24 VDC, 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.



1



Type		Characteristics		
Display	LCD screen size / Resolution	3,8" / QVGA	5,7" / QVGA	
	Type	STN monochrome, amber or red	STN monochrome, gray	STN 4096 colours
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, button, light, clock, flashing light, keypad		
	Curves / Alarm logs	Yes, with log / Yes, incorporated		
	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)		130 x 76 x 104	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	1
Built-in Ethernet TCP/IP		No	No	Yes
Integrated I/O		12I/6O 24 VDC	16I/16O 24 VDC	
Extensions		2 modules TM2 or CANopen module	3 modules TM2 or CANopen module	
Supply voltage		24 VDC		
References	Source Output	XBTGC1100T	XBTGC2120T	XBTGC2230T
	Sink Output	XBTGC1100U	XBTGC2120U	XBTGC2230U

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 4O Relays Screw terminal	16I 24 VDC 8O 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



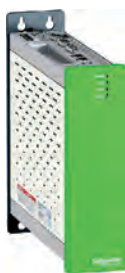
Type		Characteristics	
Display	LCD screen size / Resolution	5.7" / QVGA to 10,4" / VGA	«5.7" (QVGA/VGA), 7.5" (VGA), 10.4" (VGA/SVGA), 12.1" (SVGA), 15" (XGA)»
	Type	STN monochrome or TFT color	STN monochrome, STN 4096 colors, TFT 65000 colors
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, button, light, clock, flashing light, keypad	
	Curves / Alarm logs	Yes, with log / Yes, incorporated	
	Control	5 languages IEC	
Communication	Serial link	1 RJ45 (RS 485) + 1 Sub9 (RS 232/RS 422 - RS 485)	
	Networks	Ethernet, IEEE 802.3 10/100 BASE-T, RJ45 depending on model	
Downloadable protocols	Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic), Uni-TE, Modbus, Modbus TCP		
Development software	SoMachine (under Windows XP and Vista)		
Dimensions W x D x H (mm)	Depending on model		
Compatibility with PLCs	Twido, Modicon TSX Micro, Modicon Premium, Modicon Quantum, Modicon M340		
«Compact Flash» card slot	Yes		
USB port	1 or 2		
Built-in Ethernet TCP/IP	Depending on model		
Built-in I/O	No		
Extensions	CANopen module mandatory		
Supply voltage	24 VDC		
References	XBTGK2●/53 (1)		XBTGT2●/4●/5●/63/73 (2)

(1) for detailed references, see p37

(2) for detailed references, see p35-36

Control extension

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



1

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 =<32Go (SSD SLC) HDD =<250Go Flash Disk =<32Go (SSD SLC) HDD =<250Go
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 PCI
Overall dimensions (WxHxD in mm)	82x270x251 121x270x251
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 HMIBUHDD2P01
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 =<32Go (SSD SLC) HDD =<250Go Flash Disk =<32Go (SSD SLC) HDD =<250Go
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 (WxHxD in mm)	121x270x251 217x270x251
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 DC	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	1 x USB	2 x USB	1 x USB
Video ports		1 x VGA & 1 x DVI	1 x VGA & 1 x DVI	2 x VGA & 1 x DVI	1 x VGA & 1 x DVI
Touchscreen ports		1 x USB & 1 x RS 232	1 x USB & 1 x RS 232	2 x USB & 1 x RS 232	1 x USB & 1 x RS 232
Certification		UL508, CSA	UL508, CSA	UL508, CSA	UL508, CSA
Dimensions W x D x H (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"
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)	
User storage	SD card	
Power supply	24V DC	
Intergated ports	2 x Ethernet Gibabit, 1 USB front + 2, 1 RS232	
Overall dimensions (WxHxD in mm)	323x260x72	402x301x72
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	
Software	Office & PDF readers, Internet browser, .Net 3.5, Vijeo Designer RT demo (Unlimited licence to be ordered separatly VJDSNRTMPC), Vijeo Citect web client	
Part number	HMIPWC 5D0E01	HMIPWC 7D0E01
Part Number GTW	HMIGTW 5354	HMIGTW 7354



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 =< 4Gb (SLC)	Flash Disk =<32Go (SSD SLC)	HDD =<250Go	Flash Disk =<32Go (SSD SLC)	HDD =<250Go
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 (WxHxD in mm)	402x301x104			402x301x153	
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 separatly (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 =<32Go (SSD SLC)	HDD =<250Go	Flash Disk =<32Go (SSD SLC)	HDD =<250Go	
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 (WxHxD in mm)	402x301x118			402x301x168	
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 separatly (VJDSNRTMPC)				
2Gb RAM - DC power supply	HMIPPF7D0701	HMIPPH7D0701	-	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 Gibabit, 1 front USB + 4 USB, 2 RS232, 1 DVI				
Battery-backup*, additional RS232/485 port*			+ redundant RAID HDD by PCI	
480x380x114			480x380x153	
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 separatly (VJDSNRTMPC)				
HMIPUC9D0E01	HMIPUF9D0P01	HMIPUH9D0P01	-	HMIPUH9D2P01
-	HMIPUF9D0PL1	-	-	-
-	-	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 Gibabit, 1 front USB + 4 USB, 2 RS232, 1 DVI				
Battery-backup*, add. RS232/485 port*			+ redundant RAID HDD by PCI	
480x380x129			480x380x168	
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 separatly (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 terminals, Box PC and Panel PC. It also enables management of the multimedia functions of XBT GTW and Smart & Compact iPC (video and audio) and offers users of Ethernet terminals and iPC remote access via a Web browser (WEB Gate function).

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; projects comprising one or several targets (terminal or iPC).
- . Recipe editor (32 groups of 256 recipes of max. 1024 ingredients).
- . User action list (eg. script) for application adaptability.
- . Application variable cross-referencing.
- . Vectorial graphic library for more attractive graphic screens.
- . Application block diagram documentation.
- . Simulation mode for simple design office application testing.
- . High-performance graphic editor for simple block diagram creation (over 30 animated preconfigured generic objects).
- . Support of layers and masks for faster development.
- . Data sharing (up to 300 variables on 8 terminals).
- . Management of 40 alphabets (including simplified Chinese, Korean, Arabic and Hebrew) 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).
- . Project backup on terminal for simple maintenance.
- . User-friendly data recovery tool.
- . Support of standard USB peripherals (USB key up to 4 GB).
- . Support of external USB keyboards and mice.
- . Integration with Schneider Electric equipment (buffer diag., variables access, Unity DDT and unlocated variables.)
- . Event-triggered e-mail function
- . Over 35 third party protocols
- . Multilingual software : English, French, German, Italian, Spanish, Portuguese and Simplified Chinese.
- . Printing function

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.

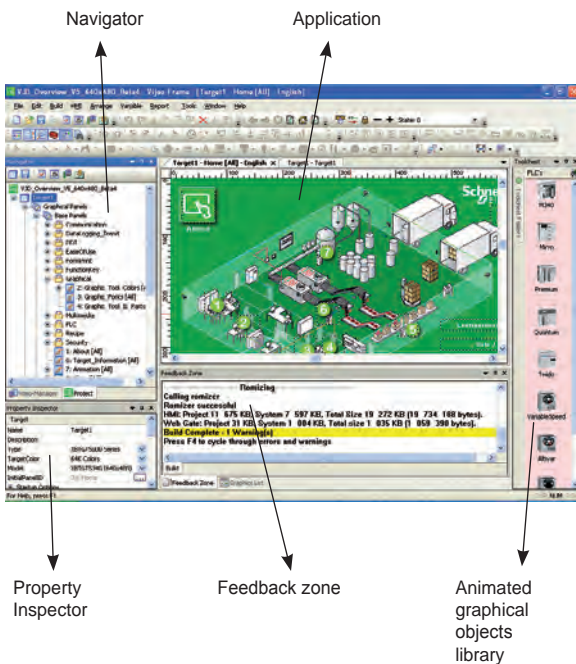
Flexible Various storage methods are supported, CSV file can be read directly in MS Excel, recording in user-defined format in an SQL database or secure IDV (Intelligent Data Vault) files to ensure compatibility with the requirements of 21 CFR Part 11.

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 Lite _____ Configuration software Magelis XBT N



Vijeo Designer Lite configuration software enables the creation of simple operator dialogue applications on Magelis XBT N, Small Panel ranges.

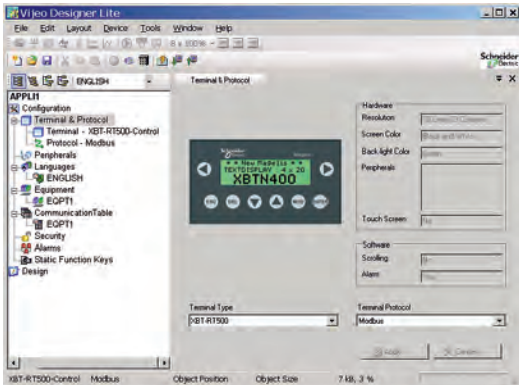
It also enables transparent recovery of all applications produced using its predecessor: XBT L1000. For simplified installation and improved consistency, Vijeo Designer Lite retains the main characteristics of Vijeo Designer software (ergonomics, interface ...) which has become the reference in the HMI field.

Configuration

Vijeo Designer Lite software enables fast and easy creation of different types of pages (application page, alarm pages, help pages...) and the installation of navigation between pages.

It offers:

- Character fonts Byzantine, simplified Chinese, Cyrillic, Japanese
- Project reports
- Application simulation on PC
- Six languages : English, French, German, Italian, Spanish and Chinese.



Selection guide for Vijeo Designer Lite

Number of licenses	Composition	References
Single (1)	Without cable With USB cable	VJDSNDTMSV●●M VJDSUDTMSV●●M

Software is delivered on CD-ROM and can be executed under Windows 2000, XP and Vista.
●● represents version number.

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