

## A wide range of Human/Machine interfaces to meet your needs!

### Harmony

Optimize the creation of your dialog solutions!

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



*Unequalled and of high quality, it is the largest offer on the market.*

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

**b Ingenuity:** LED technology for all signalling functions.

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

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

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

### Magelis®

HMI at the *touch* of a finger and the *blink* of an eye.

In order to improve the performance of your production equipment, Telemecanique offers you a complete range of hardware and software specifically for Human/Machine dialogue.



**b Compact,** the range of Magelis display units, terminals and industrial PCs is characterised by its ease of implementation.

**b Ingenious,** the software range simplifies the design of your HMI (Human/Machine Interface) applications.

*The new Magelis range, comprising display units, terminals, graphic terminals with keypad or touchscreen and i PC industrial PCs, offers improved robustness for ensuring availability of your installation.*



**b** Take advantage of these new Telemecanique offers that are **open** to the new information and communication technologies.

#### The essential guide

*A selection of the most popular selling products enabling you to quickly locate the most appropriate solution for your application... from push buttons to the industrial PC.*

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To benefit from perfect interoperability select Telemecanique software.









- b XBTL1001/L1003
- b Vijeo Designer
- b Vijeo Citect
- b The FactoryCast HMI Web server















## Human/Machine Interfaces









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BLACK start push buttons			RED stop push buttons		
<b>Operator Style</b>	XB4 Die Cast Chrome	XB5 Doubled Insulated	<b>Operator Style</b>	XB4 Die Cast Chrome	XB5 Double Insulated
					
<b>Contact Block</b>	1 N.O. 	1 N.O. 	<b>Contact Block</b>	1 N.C. 	1 N.C. 
<b>Catalog number</b>	XB4BA21	XB5AA21	<b>Catalog number</b>	XB4BL42	XB5AL42
<b>Legend Plate</b>	ZBY2303	ZBY2303	<b>Legend Plate</b>	ZBY2304	ZBY2304

BLACK Off-On selector switch			Hand-Off-Auto selector switch		
<b>Operator Style</b>	XB4 Die Cast Chrome	XB5 Doubled Insulated	<b>Operator Style</b>	XB4 Die Cast Chrome	XB5 Double Insulated
					
<b>Contact Block</b>	1 N.O. 	1 N.O. 	<b>Contact Block</b>	2 N.O. 	2 N.O. 
<b>Catalog number</b>	XB4BD21	XB5AD21	<b>Catalog number</b>	XB4BD33	XB5AD33
<b>Legend Plate</b>	ZBY2367	ZBY2367	<b>Legend Plate</b>	ZBY2387	ZBY2387

RED 120 VAC LED On pilot light			GREEN 120 VAC LED Off pilot light		
<b>Operator Style</b>	XB4 Die Cast Chrome	XB5 Doubled Insulated	<b>Operator Style</b>	XB4 Die Cast Chrome	XB5 Double Insulated
					
<b>Light Module</b>	120 VAC Red LED	120 VAC Red LED	<b>Light Module</b>	120 VAC Green LED	120 VAC Green LED
<b>Catalog number</b>	XB4BVG4	XB5AVG4	<b>Catalog number</b>	XB4BVG3	XB5AVG3
<b>Legend Plate</b>	ZBY2311	ZBY2311	<b>Legend Plate</b>	ZBY2312	ZBY2312





RED 40 mm mushroom emergency stop (push-pull)			RED 40 mm mushroom emergency stop (turn-to-release)		
<b>Operator Style</b>	XB4 Die Cast Chrome	XB5 Doubled Insulated	<b>Operator Style</b>	XB4 Die Cast Chrome	XB5 Double Insulated
					
<b>Contact Block</b>	1 N.C. 	1 N.C. 	<b>Contact Block</b>	1 N.C. 	1 N.C. 
<b>Catalog number</b>	XB4BA21	XB5AA21	<b>Catalog number</b>	XB4BL42	XB5AL42
<b>Legend Plate</b>	ZBY2303	ZBY2303	<b>Legend Plate</b>	ZBY2304	ZBY2304





# Push buttons, Ø 30 mm Common operators, complete with contact blocks





## Harmony





Class 9001  
Type K, SK


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BLACK start push buttons		
<b>Operator Style</b>	30 mm Industrial (metal)	30 mm Corrosion Resistant (Non-Metallic)
		
<b>Contact Block</b>		
<b>Catalog number</b>	KR1BH13	SKR1BH13
<b>Legend Plate</b>	KN201	KN101SP



RED stop push buttons		
<b>Operator Style</b>	30 mm Industrial (metal)	30 mm Corrosion Resistant (Non-Metallic)
		
<b>Contact Block</b>		
<b>Catalog number</b>	KR1RH13	SKR1RH13
<b>Legend Plate</b>	KN202	KN102RP



BLACK Off-On selector switch		
<b>Operator Style</b>	30 mm Industrial (metal)	30 mm Corrosion Resistant (Non-Metallic)
		
<b>Contact Block</b>		
<b>Catalog number</b>	KS11BH13	SKS11BH13
<b>Legend Plate</b>	KN244	KN144P

Black Hand-Off-Auto selector switch		
<b>Operator Style</b>	30 mm Industrial (metal)	30 mm Corrosion Resistant (Non-Metallic)
		
<b>Contact Block</b>		
<b>Catalog number</b>	KS43BH13	SKS43BH13
<b>Legend Plate</b>	KN260	KN160SP

RED 120 VAC On pilot light		
<b>Operator Style</b>	30 mm Industrial (metal)	30 mm Corrosion Resistant (Non-Metallic)
		
<b>Catalog number</b>	KP1R31	SKP1R31
<b>Legend Plate</b>	KN203	KN103SP

GREEN 120 VAC Off pilot light		
<b>Operator Style</b>	30 mm Industrial (metal)	30 mm Corrosion Resistant (Non-Metallic)
		
<b>Catalog number</b>	KP1G31	SKP1G31
<b>Legend Plate</b>	KN204	KN104SP

RED 120 VAC On push-to-test pilot light		
<b>Operator Style</b>	30 mm Industrial (metal)	30 mm Corrosion Resistant (Non-Metallic)
		
<b>Catalog number</b>	KT1R31	SKT1R31
<b>Legend Plate</b>	KN203	KN103SP

Green 120 VAC Off push-to-test pilot light		
<b>Operator Style</b>	30 mm Industrial (metal)	30 mm Corrosion Resistant (Non-Metallic)
		
<b>Catalog number</b>	KT1G31	SKT1G31
<b>Legend Plate</b>	KN204	KN104RP

2

**Single Illuminated and Non-Illuminated Push Buttons**

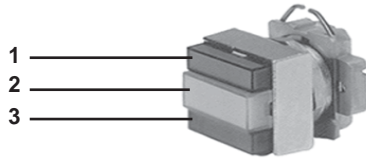


Description	Button color	Legend marking	Contacts	Catalog number
<b>Non-Illuminated</b>				
	Green	Start		KXRA101
	Red	Stop		KXRA102
	Green	Start		KXRA133
	Red	Stop		KXRA134
	Red Mushroom	Emergency Stop		KXRN105
	Red Mushroom	Emergency Stop		KXRN135
<b>Illuminated 110–120 V, 50–60 Hz, Transformer</b>				
	Green	Start		KXRB103
	Red	Stop		KXRB104
	Red Mushroom	Emergency Stop		KXRP106

**Dual Push Buttons**

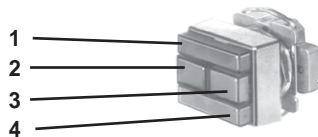


Top Button (#1)	Bottom Button (#2)	Contacts	Catalog number
Start (Green-Mom.)	Stop (Red-Mom.)		KXRC111
Start (Green-Mom.)	Stop (Red-Mom.)		KXRC136
Up (Green-Mom.)(1)	Down (Green-Mom.)(1)		KXRD112
Open (Green-Mom.)(1)	Close (Green-Mom.)(1)		KXRD113
Forward (Green-Mom.)(1)	Reverse (Green-Mom.)(1)		KXRD114
Up (Green-Mom.)(1)	Down (Green-Mom.)(1)		KXRD140
Open (Green-Mom.)(1)	Close (Green-Mom.)(1)		KXRD141
Forward (Green-Mom.)(1)	Reverse (Green-Mom.)(1)		KXRD142
Start (Green-Maint.)(1)	Stop (Red-Maint.)(1)		KXRE115
Reset (Green-Maint.)(1)	Stop (Red-Maint.)(1)		KXRF116



**Dual Push Button With One Pilot Light**

Description	Top Button (#1)	Middle Lens (#2)	Bottom Button (#3)	Contacts	Catalog number
Pilot Light at 110–120 V, 50–60 Hz, Transformer	Start (Green-Mom.)	On (Red)	Stop (Red-Mom.)		KXRG117
	Start (Green-Mom.)	On (Red)	Stop (Red-Mom.)		KXRG137
	Blank (Green-Mom.)	Blank (Red)	Blank (Green-Mom.)		KXRH118
	Start (Green-Maint.)	On (Red)	Stop (Red-Maint.)		KXRJ119
	Reset (Green-Mom.)	On (Red)	Stop (Red-Maint.)		KXRK120




**Dual Push Button With Dual Pilot Lights**


Description	Top Button (#1)	Left Lens (#2)	Right Lens (#3)	Bottom Button (#4)	Contacts	Catalog number
Pilot Lights at 110–120 V, 50–60 Hz, Transformer	Start (Green-Mom.)	On (Red)	Off (Green)	Stop (Red-Mom.)		KXRL121
	No. 1 (White-Mom.)	1White	2 Blue	No. 2 (Blue-Mom.)		KXRL132
	Start (Green-Mom.)	On (Red)	Off (Green)	Stop (Red-Mom.)		KXRL138
	Blank (Green-Mom.)	Blank (Red)	Blank (Red)	Blank (Green-Mom.)		KXRM122

## Selector Switches


### Non-Illuminated

Description	Positions	Legend	Knob	Contacts	Catalog number
	2-Maint.	Off-On	Black	1 0 0 1	KXSA125
	2-Maint.	Off-On	Black	0 1	KXSA139
	3-Maint.	Hand-Off-Auto.	Black	1 0 0 0 0 1	KXSD126
	3-Maint.	Hand-Off-Auto.	Black	1 0 0 0 0 1 1 0 0 0 0 1	KXSD127

### Illuminated 110–120 V, 50–60 Hz, Transformer

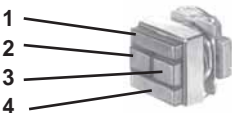
Description	Positions	Legend	Knob	Contacts	Catalog number
	2-Maint.	Off-On	Black	1 0 0 1	KXSJ128
	3-Maint.	Hand-Off-Auto.	Black	1 0 0 0 0 1	KXSM129
	3-Maint.	Hand-Off-Auto.	Black	1 0 0 0 0 1 1 0 0 0 0 1	KXSM130

## Single Pilot Light


Description	Legend	Lens Color	Legend Marking	Catalog number
	Standard	Red	On	KXPA107
	110–120 V, 50–60 Hz, Transformer	Green	Off	KXPA108
	Push-to-test	Red	On	KXTA109
		Green	Off	KXTA110

## Dual Push-to-test Pilot Light


(Pushing Button #1 Tests Pilot Light #2–Pushing Button #4 Tests Pilot Light #3)

Description	Top Button (#1)	Left Lens (#2)	Right Lens (#3)	Bottom Button (#4)	Catalog number
	Pilot Lights at 110–120 V, 50–60 Hz, Transformer	Green	Red	Green	KXTC123
		Blank	Blank	Blank	

## Dual Pilot Light

Description	Left Lens (#1)	Right Lens (#2)	Catalog number
	110–120 V, 50–60 Hz, Transformer	Red Green	KXPB124
		On Off	

## Four-Field Pilot Light


Description	Top Button (#1)	Left Lens (#2)	Right Lens (#3)	Bottom Button (#4)	Catalog number
	at 110–120 V, 50–60 Hz, Transformer	White Blank	Blue Blank	Green Blank	KXPC131
	Remote Test (1) 120 VAC Resistor	White Blank	Blue Blank	Green Blank	KXTE150 (1)

(1) If all four lamps are illuminated at the same time continuously—do NOT operate above 120 VAC.

(1):

Voltage	Number (p)
5 VDC (25 mA)	1
12 VDC (18 mA)	2
24 VDC (18 mA)	3
48 v (10 Ma)	4



LED pilot lights		With black bezel		With integral lens cap	
<b>Type of head</b>		Protuding LED, 8 mm		Covered LED, 8 mm	Covered LED, 12 mm
Degree of protection		IP 40			
Mounting (mm)	panel cut-out	8.2 mm		8.2 mm	12.2 mm
	mounting centers	12.5 x 12.5 mm		10.5 x 10.5 mm	16.5 x 16.5 mm
Dimensions (mm)	Depth (below head)	32		34	45
Connection		Tags 2.8 x 0.5		Tags 2.8 x 0.5	Screw clamp connectors
Catalog Number (1)	green	XVL A1p3 (1)		XVL A2p3 (1)	XVL A3p3 (1)
	red	XVL A1p4 (1)		XVL A2p4 (1)	XVL A3p4 (1)
	yellow	XVL A1p5 (1)		XVL A2p5 (1)	XVL A3p5 (1)
<b>Tightening key</b>		For 8 mm pilot lights			For 12 mm pilot lights
Catalog Number		XVL X08			XVL X12

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





## 9001 Type O Incandescent pilot lights

Degree of protection		NEMA & ULType 13	
Mounting (mm)	panel cut-out	17.5 mm	
Overall dimensions (mm)		21 x 47	
Connection		5 x 0.5 mm Quick connect	
	<b>Voltage AC/DC</b>	<b>Color</b>	<b>Catalog Number</b>
	12 VAC/DC 170 mA	Red	9001OR12
		Green	9001OG12
		Amber	9001OA12
	24 VAC/DC 73 mA	Red	9001OR24
		Green	9001OG24
		Amber	9001OA24
		Yellow	9001OY24
	120 VAC/DC 25 mA	Red	9001OR120
		Green	9001OG120
		Amber	9001OA120
		Yellow	9001OY120



(1):

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



#### Illuminated push buttons

<b>Type of head</b>		<b>Flush push</b>
<b>Shape of head</b>		rectangular (2)
<b>Degree of protection</b>		IP 65 / Nema 4, 4X, 13
<b>Mounting (mm)</b>	panel cut-out	Ø 16.2 <sup>+0.2</sup> <sub>0</sub>
	mounting centers	24 x 18 with rectangular head, 18 x 18 with square or circular head
<b>Dimensions (mm)</b>	W x H x D (below head)	24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head
<b>Connection (3)</b>		Tags for 2.8 x 0.5 Faston connectors or for soldering

#### Type of push

		Spring return		Products for user assembly			
		Complete products 12–24 VAC/DC					
<b>Catalog number</b>	white	N.O.	XB6DW1B1B	ZB6Ep1B(1)	ZB6Z1B	ZB6DW1	
		N.C. + N.O.	XB6DW1B5B	ZB6Ep1B(1)	ZB6Z5B	ZB6DW1	
	green	N.O.	XB6DW3B1B	ZB6Ep3B(1)	ZB6Z1B	ZB6DW3	
		N.C. + N.O.	XB6DW3B5B	ZB6Ep3B(1)	ZB6Z5B	ZB6DW3	
	red	N.C.	XB6DW4B2B	ZB6Ep4B(1)	ZB6Z2B	ZB6DW4	
		N.C. + N.O.	XB6DW4B5B	ZB6Ep4B(1)	ZB6Z5B	ZB6DW4	
	yellow	N.O.	–	ZB6Ep5B(1)	ZB6Z1B	ZB6DW5	
		N.C. + N.O.	XB6DW5B5B	ZB6Ep5B(1)	ZB6Z5B	ZB6DW5	
	<b>Type of push</b>		<b>Latching</b>				
	<b>Catalog number</b>	white	N.O.	–	ZB6Ep1B(1)	ZB6Z1B	ZB6DF1
N.C. + N.O.			XB6DF1B5B	ZB6Ep1B(1)	ZB6Z5B	ZB6DF1	
green		N.O.	XB6DF3B1B	ZB6Ep3B(1)	ZB6Z1B	ZB6DF3	
		N.C. + N.O.	XB6DF3B5B	ZB6Ep3B(1)	ZB6Z5B	ZB6DF3	
red		N.C.	XB6DF4B2B	ZB6Ep4B(1)	ZB6Z2B	ZB6DF4	
		N.C. + N.O.	XB6DF4B5B	ZB6Ep4B(1)	ZB6Z5B	ZB6DF4	
yellow		N.O.	–	ZB6Ep5B(1)	ZB6Z1B	ZB6DF5	
		N.C. + N.O.	–	ZB6Ep5B(1)	ZB6Z5B	ZB6DF5	



#### Pilot lights

<b>Type of head</b>		<b>Smooth lens cap</b>
<b>Shape of head</b>		rectangular (2)
<b>Degree of protection</b>		IP 65 / Nema 4, 4X, 13
<b>Mounting (mm)</b>	panel cut-out	Ø 16.2 <sup>+0.2</sup> <sub>0</sub>
	mounting centers	24 x 18 with rectangular head, 18 x 18 with square or circular head
<b>Dimensions (mm)</b>	W x H x D (below head)	24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head
<b>Connection (3)</b>		Tags for 2.8 x 0.5 Faston connectors or for soldering

		Complete products 12–24 VAC/DC		Products for user assembly	
<b>Catalog number</b>	white	XB6DV1BB	ZB6Ep1B(1)	ZB6DV1	
	green	XB6DV3BB	ZB6Ep3B(1)	ZB6DV3	
	red	XB6DV4BB	ZB6Ep4B(1)	ZB6DV4	
	yellow	XB6DV5BB	ZB6Ep5B(1)	ZB6DV5	
	blue	–	ZB6Ep6B(1)	ZB6DV6	

(1) Basic catalog number, 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 catalog number by the letter **C** (XB6DW1B1B becomes XB6CW1B1B).

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










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



## Contact functions



### Push buttons

<b>Type of head</b>	  	<b>Flush push</b>	
<b>Shape of head</b>		rectangular (1)	
<b>Degree of protection</b>		IP 65 / Nema 4, 4X, 13	
<b>Mounting (mm)</b>	panel cut-out mounting centers	$\varnothing 16.2^{+0.2}_0$ 24 x 18 with rectangular head, 18 x 18 with square or circular head	
<b>Dimensions (mm)</b>	W x H x D (below head)	24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head	
<b>Connection (2)</b>		Tags for 2.8 x 0.5 Faston connectors or for soldering	
<b>Type of push</b>		<b>Spring return</b>	
		<b>Complete products</b>	
		<b>Products for user assembly</b>	
<b>Catalog number</b>	white  N.O. N.C. + N.O.	<b>XB6DA11B</b> <b>XB6DA15B</b>	  <b>ZB6Z1B</b> <b>ZB6A1</b> <b>ZB6Z5B</b> <b>ZB6A1</b>
	black  N.O. N.C. + N.O.	– <b>XB6DA25B</b>	<b>ZB6Z1B</b> <b>ZB6A2</b> <b>ZB6Z5B</b> <b>ZB6A2</b>
	green  N.O. N.C. + N.O.	<b>XB6DA31B</b> <b>XB6DA35B</b>	<b>ZB6Z2B</b> <b>ZB6A3</b> <b>ZB6Z5B</b> <b>ZB6A3</b>
	red  N.O. N.C. + N.O.	– <b>XB6DA45B</b>	<b>ZB6Z1B</b> <b>ZB6A4</b> <b>ZB6Z5B</b> <b>ZB6A4</b>





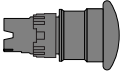

(1) For products with a square head, replace the letter **D** in the catalog number by the letter **C** (XB6DA11B becomes XB6CA11B).

For products with a circular head, replace the letter **D** in the catalog number 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 push buttons (3)

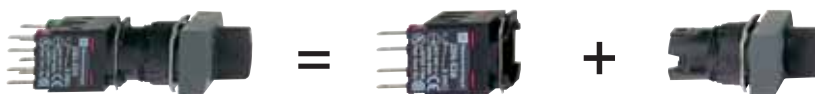
<b>Type of head</b>		<b>Trigger action (EN 418)</b>	
<b>Shape of head</b>		cylindrical	
<b>Type of push</b>		Turn to release	
		<b>Complete products</b>	
		<b>Products for user assembly</b>	
<b>Catalog number</b>	red  2 N.C. + 1 N.O.	<b>XB6AS8349B</b>	   <b>ZB6E2B</b> <b>ZB6Z5B</b> <b>ZB6AS834</b>
<b>Type of push</b>		<b>Key release, Ronis 200</b>	
<b>Catalog number</b>	red  2 N.C. + 1 N.O.	<b>XB6AS9349B</b>	<b>ZB6E2B</b> <b>ZB6Z5B</b> <b>ZB6AS934</b>

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

Push buttons, switches and pilot lights  
 Ø 16 mm with plastic bezel

Contact functions and light functions  
 with integral LED

2



### Selector switches and key switches

Type of head		<b>Black handle</b>
Shape of head		rectangular (2)
Degree of protection		IP 65 / Nema 4, 4X, 13
Mounting (mm)	panel cut-out mounting centers	Ø 16.2 <sup>+0.2</sup> <sub>0</sub>
Dimensions (mm)	W x H x D (below head)	24 x 18 with rectangular head, 18 x 18 with square or circular head
Connection (3)		24 x 18 x 50 with rectangular head, 18 x 18 x 50 with square or circular head
		Tags for 2.8 x 0.5 Faston connectors or for soldering

Type of operator		Black handle	
		Complete products	Products for user assembly
Number and type of positions		2 positions stay put	2 positions stay put
Catalog number	N/O	XB6DD221B	ZB6Z1B   ZB6DD22
	N/C + N/O	XB6DD225B	ZB6Z5B   ZB6DD22
Number and type of positions		3 positions stay put	3 positions stay put
Catalog number	N/O	XB6DD235B	ZB6Z5B   ZB6DD23
			2 positions spring return to center
			ZB6Z1B   ZB6DD24
			ZB6Z5B   ZB6DD24
			3 positions spring return to center
			ZB6Z5B   ZB6DD25



Type of operator		Ronis key, n° 200	
		Complete products	Products for user assembly
Number and type of positions		2 positions stay put	2 positions stay put
Catalog number	N/C + N/O	XB6DGC5B	ZB6Z5B   ZB6DGC
Number and type of positions		3 positions stay put	3 positions stay put
Catalog number	N/C + N/O	XB6DGH5B	ZB6Z5B   ZB6DGH
			2 positions spring return to center
			ZB6Z5B   ZB6DGB
			3 positions spring return to center
			ZB6Z5B   ZB6DGS

(1):

Voltage	Letter (p)
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		Colored handle	
		Products for user assembly	
Number and type of positions		2 positions stay put	3 positions stay put
Catalog number	white ● N/C + N/O	ZB6Ep1B (1)   ZB6Z5B	ZB6DD02   ZB6DD03
	green ● N/C + N/O	ZB6Ep3B (1)   ZB6Z5B	ZB6DD02   ZB6DD03
	red ● N/C + N/O	ZB6Ep4B (1)   ZB6Z5B	ZB6DD02   ZB6DD03
			ZB6YK1
			ZB6YK3
			ZB6YK4

(1) Basic catalog number, 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 catalog number by the letter C (XB6DD221B becomes XB6CD221B).

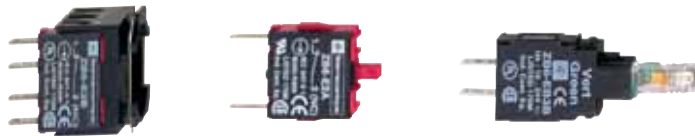
For products with a circular head, replace the letter D in the catalog number by the letter A (XB6DD221B becomes XB6AD221B).

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



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

**Harmony**  
XB6



2

Sub-assemblies		Bodies for push buttons and selector switches			Bodies for pilot lights				
Rated operational characteristics, AC-15: U <sub>e</sub> = 240 V and I <sub>e</sub> = 1.5 A or U <sub>e</sub> = 120 V and I <sub>e</sub> = 3 A					Consumption				
Positive operation of contacts conforming to IEC/EN 60947-5-1: N.C. contacts with positive opening operation, positive opening force 20 N					15 mA	12–24 VAC/DC			
					25 mA	48–120 VAC			
					25 mA	230–240 VAC			
	Type of contact	Fixing collar + contacts	Contacts	Pilot light bodies	12–24 V	48–120 V	230–240 V		
Catalog number	N.O.	ZB6Z1B	ZB6E1B	White ●	ZB6EB1B	ZB6EG1B	ZB6EM1B		
	N.C.	ZB6Z2B	ZB6E2B	Green ●	ZB6EB3B	ZB6EG3B	ZB6EM3B		
	2 N.O.	ZB6Z3B	–	Red ●	ZB6EB4B	ZB6EG4B	ZB6EM4B		
	2 N.C.	ZB6Z4B	–	Yellow ●	ZB6EB5B	ZB6EG5B	ZB6EM5B		
	N.O. + N.C.	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 color	without legend	yellow or white	black or red	without legend	yellow or white	black or red
Catalog number (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 color	–	yellow or white	black or red	–	yellow or white	black or red
Catalog number (20)*		–	ZB6Y1001	ZB6Y2001	–	ZB6Y4001	ZB6Y3001
Ø 45 mm yellow legend for mushroom head Emergency stop push button							
	Making	Blank, for engraving		EMERGENCY STOP			
Catalog number		ZB6Y7001		ZB6Y7330			
	Body/fixing collar	Plate		Tightening tool		Dismantling tool	
		anti-rotation		and slackening, for fixing nut		for removal of contact blocks	
Catalog number		ZB6Y009 (10)*	ZB6Y003 (10)*	ZB6Y905 (2)*		ZB6Y018 (5)*	
Protective shutter for push buttons and switches				Connector		Blanking plug	
	for rectangular heads	for circular and square heads		Faston, female		IP 65	
Catalog number		ZB6YD001	ZB6YA001	ZB6Y004 (100)*		ZB6Y005 (10)*	

\* sold in lots of









### Push buttons, spring return

<b>Type of head</b>			<b>Plated circular bezel</b>					
<b>Degree of protection</b>			IP 65 / Nema 4X, 13 (IP 66 for booted push buttons)					
<b>Mounting (mm)</b>		panel cut-out mounting centers	Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended)					
<b>Depth (mm)</b>		below head	30 (horizontal) x 40 (vertical)					
<b>Connection (1)</b>			Screw clamp terminals					
<b>Type of push</b>			<b>Flush</b>			<b>Flush, booted</b>		
Unmarked		<b>Products</b>	<b>Complete</b>	<b>For user assembly</b>		<b>Complete</b>	<b>For user assembly</b>	
								
<b>Catalog number</b>		black ● N.O.	XB4BA21	ZB4BZ101	ZB4BA2	XB4BP21	ZB4BZ101	ZB4BP2
		green ● N.O.	XB4BA31	ZB4BZ101	ZB4BA3	XB4BP31	ZB4BZ101	ZB4BP3
		red ● N.C.	XB4BA42	ZB4BZ102	ZB4BA4	XB4BP42	ZB4BZ102	ZB4BP4
		yellow ● N.O.	XB4BA51	ZB4BZ101	ZB4BA5	XB4BP51	ZB4BZ101	ZB4BP5
		blue ● N.O.	XB4BA61	ZB4BZ101	ZB4BA6	XB4BP61	ZB4BZ101	ZB4BP6
<b>Type of push</b>			<b>Flush</b>			<b>Mushroom head, Ø 40 mm</b>		
With international marking		<b>Products</b>	<b>Complete</b>	<b>For user assembly</b>				
<b>Catalog number</b>		green  N.O.	XB4BA3311	ZB4BZ101	ZB4BA331	–	–	
		red  N.C.	XB4BA4322	ZB4BZ102	ZB4BA432	–	–	
		white  N.O.	XB4BA3341	ZB4BZ101	ZB4BA334	–	–	
		black  N.O.	XB4BA3351	ZB4BZ101	ZB4BA335	–	–	
<b>Type of push</b>			<b>Projecting</b>			<b>Double-headed push buttons, booted</b>		
Unmarked		<b>Products</b>	<b>Complete</b>	<b>For user assembly</b>		<b>Complete</b>	<b>For user assembly</b>	
								
<b>Catalog number</b>		black ● N.O.	–	–	–	XB4BC21	ZB4BZ101	ZB4BC2
		red ● N.C.	XB4BL42	ZB4BZ102	ZB4BL4	–	–	–
<b>Type of push</b>			<b>Double-headed push buttons</b>			<b>Double-headed push buttons, booted</b>		
<b>Degree of protection</b>			IP 40			IP 66		
With international marking		<b>Products</b>	<b>Complete</b>	<b>For user assembly</b>		<b>Complete</b>	<b>For user assembly</b>	
<b>Catalog number</b>		green / red  N.C. + N.O.	XB4BL845	ZB4BZ105	ZB4BL8434	XB4BL945	ZB4BZ105	ZB4BL9434

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



### Ø 40 mm mushroom head Emergency stop push buttons (2)

<b>Type of push</b>			<b>Latching</b>			<b>Trigger action (EN 418)</b>		
Unmarked		<b>Products</b>	<b>Complete</b>	<b>For user assembly</b>		<b>Complete</b>	<b>For user assembly</b>	
								
<b>Catalog number</b>		red ● N.C. or N.C. + N.O.	XB4BT42	ZB4BZ102	ZB4BT4	XB4BT845	ZB4BZ105	ZB4BT84
<b>Type of push</b>			<b>Turn to release (N.C.)</b>			<b>Turn to release (N.C. + N.O.)</b>		
<b>Catalog number</b>		red ● N.C. or N.C. + N.O.	XB4BS542	ZB4BZ102	ZB4BS54	XB4BS8445	ZB4BZ105	ZB4BS844
<b>Type of push</b>			<b>Key release (N.C.)</b>			<b>Key release (N.C. + N.O.)</b>		
<b>Catalog number</b>		red ● N.C. or N.C. + N.O.	XB4BS142	ZB4BZ102	ZB4BS14	XB4BS9445	ZB4BZ105	ZB4BS944

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

## Contact functions



2

### Selector switches and key switches

<b>Type of head</b>		<b>Plated circular bezel</b>					
Degree of protection		IP 66 / Nema 4X, 13					
Mounting (mm)	panel cut-out	Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended)					
	mounting centers	30 (horizontal) x 40 (vertical)					
Depth (mm)		43					
Connection (1)		Screw clamp terminals					
<b>Type of operator</b>		<b>Handle</b>					
<b>Products</b>		<b>Complete</b>	<b>For user assembly</b>		<b>Complete</b>	<b>For user assembly</b>	
Number and type of positions		2 positions stay put		2 positions stay put		2 positions spring return to left	
<b>Catalog number</b>	black ● N.O.	<b>XB4BD21</b>	<b>ZB4BZ101</b>	<b>ZB4BD2</b>	<b>XB4BD41</b>	<b>ZB4BZ101</b>	<b>ZB4BD4</b>
Number and type of positions		3 positions stay put		3 positions stay put		3 positions spring return to center	
<b>Catalog number</b>	black ● N.O. + N.O.	<b>XB4BD33</b>	<b>ZB4BZ103</b>	<b>ZB4BD3</b>	<b>XB4BD53</b>	<b>ZB4BZ103</b>	<b>ZB4BD5</b>



<b>Type of operator</b>		<b>Key, n° 455</b>					
<b>Products</b>		<b>Complete</b>	<b>For user assembly</b>		<b>Complete</b>	<b>For user assembly</b>	
Number and type of positions (2)		2 positions stay put		2 positions stay put		2 positions stay put	
<b>Catalog number</b>	black ● N.O.	<b>XB4BG21</b>	<b>ZB4BZ101</b>	<b>ZB4BG2</b>	<b>XB4BG41</b>	<b>ZB4BZ101</b>	<b>ZB4BG4</b>
Number and type of positions		2 positions spring return to left		2 positions spring return to left		3 positions stay put	
<b>Catalog number</b>	black ● N.O.	<b>XB4BG61</b>	<b>ZB4BZ101</b>	<b>ZB4BG6</b>	–	–	–
	black ● N.O. + N.O.	–	–	–	<b>XB4BG33</b>	<b>ZB4BZ103</b>	<b>ZB4BG3</b>

## Separate components



### Electrical blocks

#### Single contact blocks

Rated operational characteristics		AC-15, 240V - 3 A
Positive operation of contacts conforming to IEC/EN 60947-5-1		All functions incorporating a N.C. contact are positive opening operation
<b>Catalog number (5)*</b>	N.O.	<b>ZBE101</b>
	N.C.	<b>ZBE102</b>

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

(2) The symbol indicates key withdrawal position.

\* sold in lots of



### Pilot lights

Type of head		Circular bezel Smooth lens cap						
Degree of protection		IP 66 / Nema 4X, 13						
Mounting (mm)	panel cut-out mounting centers	Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended)						
Depth	below head	30 (horizontal) x 40 (vertical)						
Connection (1)		43						
Light source		Screw clamp terminals			Integral LED			Direct supply for BA 9s b bulb (not included)
	<b>Products</b>	<b>Complete</b>			<b>Complete</b>	<b>For user assembly</b>		
Supply voltage		24 VAC/DC	48–120 VAC	230–240 VAC	250 V max., 2.4 W max.			
Catalog number	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 push buttons and selector switches

Type	Flush push, spring return, illuminated push buttons						
Light source		Integral LED			Direct supply for BA 9s b bulb (not included)		
	<b>Products</b>	<b>Complete</b>			<b>Complete</b>	<b>For user assembly</b>	
Supply voltage		24 VAC/DC	48–120 VAC	230–240 VAC	250 V max–2.4 W max.		
Catalog number	white  N.C. + N.O.	XB4BW31B5	XB4BW31G5	XB4BW31M5	XB4BW3165	ZB4BW065	ZB4BW31
	green  N.C. + N.O.	XB4BW33B5	XB4BW33G5	XB4BW33M5	XB4BW3365	ZB4BW065	ZB4BW33
	red  N.C. + N.O.	XB4BW34B5	XB4BW34G5	XB4BW34M5	XB4BW3465	ZB4BW065	ZB4BW34
	yellow  N.C. + N.O.	XB4BW35B5	XB4BW35G5	XB4BW35M5	XB4BW3565	ZB4BW065	ZB4BW35
	blue  N.C. + N.O.	XB4BW36B5	XB4BW36G5	XB4BW36M5	–	–	–



Type	Double-headed push buttons with LED pilot light (1 flush green push, 1 projecting red push)			Illuminated selector switches (2 position stay put)			
Degree of protection	IP 40			IP 65			
Light source	Integral LED			Integral LED			
	<b>Products</b>	<b>Complete</b>			<b>Complete</b>		
Supply voltage		24 VAC/DC	48–120 VAC	230–240 VAC	24 VAC/DC	48–120 VAC	230–240 VAC
Catalog number	green  N.C. + N.O.	–	–	–	XB4BK123B5	XB4BK123G5	XB4BK123M5
	red  N.C. + N.O.	–	–	–	XB4BK124B5	XB4BK124G5	XB4BK124M5
	yellow  N.C. + N.O.	XB4BW84B5	XB4BW84G5	XB4BW84M5	XB4BK125B5	XB4BK125G5	XB4BK125M5

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



## Separate components and accessories



### Electrical blocks

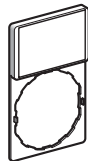
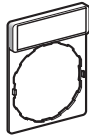
Single contact blocks		Light blocks with integral LED				Light block, direct supply	
Rated operational characteristics	AC-15, 240 V - 3 A	Consumption					
		18 mA	24 VAC/DC				
Positive operation of contacts conform to IEC/EN 60947-5-1	N.C. contacts with positive opening operation	14 mA	120 VAC				
		14 mA	240 VAC				
		To combine with heads for integral LED				For BA 9s bulb (not included)	
Catalog number (5)*	N.O.	ZBE101	white ●	ZBVB1	ZBVG1	ZBVM1	250 V max-2.4 W max.
	N.C.	ZBE102	green ●	ZBVB3	ZBVG3	ZBVM3	
			red ●	ZBVB4	ZBVG4	ZBVM4	
			yellow ●	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
Catalog number	80 x 80 mm	XAPM1201	-	-	-	XAPM1202	-	-
	80 x 130 mm	-	XAPM2202	XAPM2203	-	-	XAPM2204	-
	80 x 175 mm	-	-	XAPM3203	XAPM3204	-	-	XAPM3206



### Accessories

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

Marking	Background color: black or red						white or yellow		
Catalog number (10)*	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 color	black or red						white or yellow
Catalog Number (10)*	Blank	ZBY6101					ZBY6102

#### Ø 60 mm legend for mushroom head Emergency stop push button

Background color	yellow					
Marking	Blank	EMERGENCY STOP	ARRET D'URGENCE	NOT-AUS	PARADA DE EMERGENCIA	
Catalog number	ZBY9101	ZBY9330	ZBY9130	ZBY9230	ZBY9430	

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

\* sold in lots of



#### Push buttons, spring return

<b>Type of head</b>			<b>Circular bezel</b>					
Degree of protection			IP 66 / Nema 4X, 13 (IP 66 for booted push buttons)					
Mounting (mm)		panel cut-out	Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended)					
		mounting centers	30 (horizontal) x 40 (vertical)					
Depth (mm)		below head	43					
Connection (1)			Screw clamp terminals					
<b>Type of push</b>			<b>Flush</b>			<b>Flush, booted</b>		
Unmarked		<b>Products</b>	<b>Complete</b>	<b>For user assembly</b>		<b>Complete</b>	<b>For user assembly</b>	
<b>Catalog number</b>	black ● N.O.		XB5AA21	ZB5AZ101	ZB5AA2	XB5AP21	ZB5AZ101	ZB5 P2
	green ● N.O.		XB5AA31	ZB5AZ101	ZB5AA3	XB5AP31	ZB5AZ101	ZB5AP3
	red ● N.C.		XB5AA42	ZB5AZ102	ZB5AA4	XB5AP42	ZB5AZ102	ZB5AP4
	yellow ● N.O.		XB5AA51	ZB5AZ101	ZB5AA5	XB5AP51	ZB5AZ101	ZB5AP5
	blue ● N.O.		XB5AA61	ZB5AZ101	ZB5AA6	XB5AP61	ZB5AZ101	ZB5AP6
<b>Type of push</b>			<b>Flush</b>			<b>Mushroom head, Ø 40 mm</b>		
With international marking		<b>Products</b>	<b>Complete</b>	<b>For user assembly</b>		<b>Complete</b>	<b>For user assembly</b>	
<b>Catalog number</b>	green ⚡ N.O.		XB5AA3311	ZB5AZ101	ZB5AA3311	–	–	–
	red ⚡ N.C.		XB5AA4322	ZB5AZ102	ZB5AA4322	–	–	–
	white ⚡ N.O.		XB5AA3341	ZB5AZ101	ZB5 AA334	–	–	–
	black ⚡ N.O.		XB5AA3351	ZB5AZ101	ZB5AA335	–	–	–
<b>Type of push</b>			<b>Projecting</b>			<b>Mushroom head, Ø 40 mm</b>		
Unmarked		<b>Products</b>	<b>Complete</b>	<b>For user assembly</b>		<b>Complete</b>	<b>For user assembly</b>	
<b>Catalog number</b>	black ● N.O.		–	–	–	XB5AC21	ZB5AZ101	ZB5AC2
	red ● N.C.		XB5AL42	ZB5AZ102	ZB5AL4	–	–	–
<b>Type of push</b>			<b>Double-headed push buttons</b>			<b>Double-headed push buttons, booted</b>		
Degree of protection			IP 40			IP 66		
With international marking		<b>Products</b>	<b>Complete</b>	<b>For user assembly</b>		<b>Complete</b>	<b>For user assembly</b>	
<b>Catalog number</b>	green / red ⚡ N.C. + N.O.		XB5AL845	ZB5AZ105	ZB5AL8434	XB5AL945	ZB5AZ105	ZB5AL9434

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



#### Ø 40 mm mushroom head Emergency stop push buttons (2)

			<b>Latching</b>			<b>Trigger action (EN 418)</b>		
<b>Type of push</b>			<b>Push-pull (N.C.)</b>			<b>Push-pull (N.C. + N.O.)</b>		
Unmarked		<b>Products</b>	<b>Complete</b>	<b>For user assembly</b>		<b>Complete</b>	<b>For user assembly</b>	
<b>Catalog number</b>	red ● N.C. or N.C. + N.O.		XB5AT42	ZB5AZ102	ZB5AT4	XB5AT845	ZB5AZ105	ZB5AT84
<b>Type of push</b>			<b>Turn to release (N.C.)</b>			<b>Turn to release (N.C. + N.O.)</b>		
<b>Catalog number</b>	red ● N.C. or N.C. + N.O.		XB5AS542	ZB5AZ102	ZB5AS54	XB5AS8445	ZB5AZ105	ZB5AS844
<b>Type of push</b>			<b>Key release (N.C.)</b>			<b>Key release (N.C. + N.O.)</b>		
<b>Catalog number</b>	red ● N.C. or N.C. + N.O.		XB5AS142	ZB5AZ102	ZB5AS14	XB5AS9445	ZB5AZ105	ZB5AS944

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



### Contact functions



2

#### Selector switches and key switches

<b>Type of head</b>		<b>Circular bezel</b>			
Degree of protection		IP 66 / Nema 4X, 13			
Mounting (mm)	panel cut-out mounting centers	Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended)			
Depth (mm)	below head	30 (horizontal) x 40 (vertical)			
Connection (1)		43			
<b>Type of operator</b>		<b>Handle</b>			
	<b>Products</b>	<b>Complete</b>	<b>For user assembly</b>	<b>Complete</b>	<b>For user assembly</b>
Number and type of positions					
<b>Catalog number</b>	black ● N.O.	<b>2 positions</b> stay put ✓	<b>2 positions</b> stay put ✓	<b>2 positions</b> spring return to left ✓	<b>2 positions</b> spring return to left ✓
		<b>XB5AD21</b>	<b>ZB5AZ101</b>   <b>ZB5AD2</b>	<b>XB5AD41</b>	<b>ZB5AZ101</b>   <b>ZB5AD4</b>
Number and type of positions					
<b>Catalog number</b>	black ● N.O. + N.O.	<b>3 positions</b> stay put ✓	<b>3 positions</b> stay put ✓	<b>3 positions</b> spring return to center ✓	<b>3 positions</b> spring return to center ✓
		<b>XB5AD33</b>	<b>ZB5AZ103</b>   <b>ZB5AD3</b>	<b>XB5AD53</b>	<b>ZB5AZ103</b>   <b>ZB5AD5</b>
<b>Type of operator</b>		<b>Key, n° 455</b>			
Number and type of positions (2)					
<b>Catalog number</b>	black ● N.O.	<b>2 positions</b> stay put ✓	<b>2 positions</b> stay put ✓	<b>2 positions</b> stay put ✓	<b>2 positions</b> stay put ✓
		<b>XB5AG21</b>	<b>ZB5AZ101</b>   <b>ZB5AG2</b>	<b>XB5AG41</b>	<b>ZB5AZ101</b>   <b>ZB5AG4</b>

(2) The symbol indicates key withdrawal position.

### Separate components and accessories

#### Electrical blocks

Single contact blocks		Light blocks with integral LED			Light block, direct supply
		To combine with heads for integral LED			For BA 9s bulb (not included)
			24VAC/DC	48–120 VAC	230–240 VAC
<b>Catalog number (10)*</b>	N.O. <b>ZBE101</b>	white ●	<b>ZBVB1</b>	<b>ZBVG1</b>	<b>ZBVM1</b>
	N.C. <b>ZBE102</b>	green ●	<b>ZBVB3</b>	<b>ZBVG3</b>	<b>ZBVM3</b>
		red ●	<b>ZBVB4</b>	<b>ZBVG4</b>	<b>ZBVM4</b>
		yellow ●	<b>ZBVB5</b>	<b>ZBVG5</b>	<b>ZBVM5</b>
		blue ●	<b>ZBVB6</b>	<b>ZBVG6</b>	<b>ZBVM6</b>
					250 V max–2.4 W max.
					Color provided by lens

#### Accessories

##### Legend holder s, 30 x 40 mm, for 8 x 27 mm legends

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

##### Legend holder s, 30 x 50 mm, for 18 x 27 mm legends

Background color	black or red							white or yellow
<b>Catalog number (10)*</b>	Blank	<b>ZBY6101</b>						<b>ZBY6102</b>

##### Ø 60 mm legend for mushroom head Emergency stop push button









Background color	yellow						
Marking	Blank	EMERGENCY STOP	ARRET D'URGENCE	NOT-AUS	PARADA DE EMERGENCIA		
<b>Catalog number</b>	<b>ZBY9101</b>	<b>ZBY9330</b>	<b>ZBY9130</b>	<b>ZBY9230</b>	<b>ZBY9430</b>		
	<b>Body/fixing collar</b>	<b>Fixing nut</b>		<b>Bezel tool</b>		<b>Plate</b>	
	for electrical block (contact or light)	for head		for tightening fixing nut <b>ZB5AZ901</b>		anti-rotation <b>ZB5AZ902</b>	
<b>Catalog number</b>	<b>ZB5AZ009 (10)*</b>	<b>ZB5AZ901 (10)*</b>		<b>ZB5AZ905</b>		<b>ZB5AZ902</b>	

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

\* sold in lots of










#### Pilot lights




<b>Type of head</b>		<b>Circular bezel</b>						
<b>Degree of protection</b>		<b>Smooth lens cap</b>						
<b>Mounting (mm)</b>	panel cut-out mounting centers	IP 66 / Nema 4X, 13 Ø 22.5 (22.4 <sup>+0.4</sup> <sub>0</sub> recommended)						
<b>Depth</b>	below head	30 (horizontal) x 40 (vertical)						
<b>Connection (1)</b>		43						
<b>Light source</b>		Screw clamp terminals			Integral LED			Direct supply for BA 9s bulb (not included)
	<b>Products</b>	<b>Complete</b>			<b>Complete</b>	<b>For user assembly</b>		
								
<b>Supply voltage</b>		24VAC/DC	48–120VAC	230–240 VAC	250 V max–2.4 W max.			
<b>Catalog number</b>	white 	<b>XB5AVB1</b>	<b>XB5AVG1</b>	<b>XB5AVM1</b>	<b>XB5AV61</b>	<b>ZB5AV6</b>	<b>ZB5AV01</b>	
	green 	<b>XB5AVB3</b>	<b>XB5AVG3</b>	<b>XB5AVM3</b>	<b>XB5AV63</b>	<b>ZB5AV6</b>	<b>ZB5AV03</b>	
	red 	<b>XB5AVB4</b>	<b>XB5AVG4</b>	<b>XB5AVM4</b>	<b>XB5AV64</b>	<b>ZB5AV6</b>	<b>ZB5AV04</b>	
	yellow 	<b>XB5AVB5</b>	<b>XB5AVG5</b>	<b>XB5AVM5</b>	<b>XB5AV65</b>	<b>ZB5AV6</b>	<b>ZB5AV05</b>	
	blue 	<b>XB5AVB6</b>	<b>XB5AVG6</b>	<b>XB5AVM6</b>	–	–	–	



#### Illuminated push buttons and selector switches

<b>Type</b>	<b>Flush push, spring return, illuminated push buttons</b>						
<b>Light source</b>		Integral LED			Direct supply for BA 9s bulb (not included)		
	<b>Products</b>	<b>Complete</b>			<b>Complete</b>	<b>For user assembly</b>	
							
<b>Supply voltage</b>		24VAC/DC	48–120VAC	230–240 VAC	250 V max–2.4 W max.		
<b>Catalog number</b>	white  N.C. + N.O.	<b>XB5AW31B5</b>	<b>XB5AW31G5</b>	<b>XB5AW31M5</b>	<b>XB5AW3165</b>	<b>ZB5AW065</b>	<b>ZB5AW31</b>
	green  N.C. + N.O.	<b>XB5AW33B5</b>	<b>XB5AW33G5</b>	<b>XB5AW33M5</b>	<b>XB5AW3365</b>	<b>ZB5AW065</b>	<b>ZB5AW33</b>
	red  N.C. + N.O.	<b>XB5AW34B5</b>	<b>XB5AW34G5</b>	<b>XB5AW34M5</b>	<b>XB5AW3465</b>	<b>ZB5AW065</b>	<b>ZB5AW34</b>
	yellow  N.C. + N.O.	<b>XB5AW35B5</b>	<b>XB5AW35G5</b>	<b>XB5AW35M5</b>	<b>XB5AW3565</b>	<b>ZB5AW065</b>	<b>ZB5AW35</b>
	blue  N.C. + N.O.	<b>XB5AW36B5</b>	<b>XB5AW36G5</b>	<b>XB5AW36M5</b>	–	–	–



<b>Type</b>	<b>Double-headed push buttons with LED pilot light</b> (1 flush green push, 1 projecting red push)			<b>Illuminated selector switches</b> (2 position stay put)			
<b>Degree of protection</b>	IP 40			IP 65			
<b>Light source</b>	Integral LED			Integral LED			
	<b>Products</b>	<b>Complete</b>			<b>Complete</b>		
<b>Supply voltage</b>		24VAC/DC	48–120VAC	230–240VAC	24VAC/DC	48–120VAC	230–240VAC
<b>Catalog number</b>	green  N.C. + N.O.	–	–	–	<b>XB5AK123B5</b>	<b>XB5AK123G5</b>	<b>XB5AK123M5</b>
	red  N.C. + N.O.	–	–	–	<b>XB5AK124B5</b>	<b>XB5AK124G5</b>	<b>XB5AK124M5</b>
	yellow  N.C. + N.O.	<b>XB5AW84B5</b>	<b>XB5AW84G5</b>	<b>XB5AW84M5</b>	<b>XB5AK125B5</b>	<b>XB5AK125G5</b>	<b>XB5AK125M5</b>

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

Separate components and accessories: see previous page.



# Control stations

## For XB5 push buttons, switches and pilot lights

### Ø 22 mm with plastic bezel

**Harmony**  
XB5/XAL

(1):

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



#### Complete stations with 1 push button, 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						
Dimensions (mm)		W x H x D						
Fixing (mm)		2 x Ø 4.3 on 54 mm centers						
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 push button/selector switch/key switch		1 flush green p/b	1 flush red p/b	1 projecting red p/b	1 2 position stay put selector switch or key switch			
Catalog number		N.O.	I	XALD102	–	–	Black handle	Key n° 455 (key withdrawal LH pos.)
			Start	XALD103	–	–	–	–
			O - I	–	–	–	XALD134	XALD144
		N.C.	O	–	XALD112	XALD115	–	–

(1) Empty enclosures:

Basic catalog number: **XALK0p**, replace the p 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 push button		1 red Ø 40 head, turn to release		1 red Ø 40 head, key release	
Latching mechanism		Trigger action (EN 418)		Latching	
Catalog number		N.C.	–	XALK174	XALK184
		N.C. + N.C.	XALK178F	XALK174F	XALK184F
		N.C. + N.O.	XALK178E	XALK174E	XALK184E
		N.C. + N.C. + N.O.	XALK178G	XALK174G	XALK184G

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

Trigger action mushroom head push buttons conform to standard EN 418.



(1) Empty enclosures:

Basic catalog number: **XALK0p**, replace the p by the number of cut-outs required (see cut-out table above)

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

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

Dimensions (mm)		W x H x D						
Fixing (mm)		2-way control stations: 68 x 106 x 62; 3-way control stations: 68 x 136 x 87						
Function		Start-Stop functions			2 functions		3 functions	
Marking		On spring return push						
Number and type of push button/pilot light		1 flush green p/b	1 flush red p/b	1 flush green push button	1 flush red push button	1 flush white p/b	1 flush white p/b	1 flush white p/b
				1 flush red push button	1 red pilot light with integral LED(1)	1 flush black p/b	1 flush red p/b	1 Ø 30 red mushroom head p/b
				24 VAC/DC	230 VAC			1 flush black p/b
Catalog number		N.O. + N.C.	I - O	XALD213	XALD363B	XALD363M	–	–
			Start - Stop	XALD215	–	–	–	–
		N.O. + N.O.	↕	–	–	–	XALD222	–
		N.O. + N.C. + N.O.	↕	–	–	–	–	XALD324
			↕					XALD328

Accessories		Standard contact blocks			(1) Light blocks with integral LED, color red	
Description		N.O. contact	N.C. contact		24 VAC/DC	230 VAC
Catalog number		ZENL1111	ZENL1121		ZALVB4	ZALVM4



**Push buttons, spring return**

<b>Type of push</b>	Full guard	No guard	Extended guard		
<b>Color of push</b>	Multi-color (set of 7 clip-in colored caps)				
<b>Degree of protection</b>	IP 66 / NEMA & UL Type 1, 2, 3, 3R, 4, 6, 12 and 13				
<b>Mounting</b>	panel cut-out	30.5 mm			
<b>Depth below head (mm)</b>	42				
<b>Connection</b>	Screw clamp terminals				
<b>Catalog number</b>	Universal 7 color—black, red, green, yellow, orange, blue & white	N.O. + N.C.	<b>9001KR1UH13</b>	<b>9001KR3UH13</b>	<b>9001KR2UH13</b>
		N.O.	<b>9001KR1UH5</b>	<b>9001KR3UH5</b>	<b>9001KR2UH5</b>



**Mushroom head Emergency stop push buttons**

<b>Type of push</b>	Spring return, red	57 mm mushroom head	Push-pull, red	40 mm mushroom head	35 mm mushroom head
<b>Degree of protection</b>	IP 66 / NEMA & UL Type 1, 2, 3, 3R, 4, 6, 12 and 13				
<b>Mounting</b>	panel cut-out	30.5 mm			
<b>Depth below head (mm)</b>	42				
<b>Connection</b>	Screw clamp terminals				
<b>Catalog number</b>	N.O. + N.C.	<b>9001KR24RH13</b>	<b>9001KR25RH13</b>	<b>9001KR9R94H13</b>	<b>9001KR9R20H13</b>
		N.C.	<b>9001KR24RH6</b>	<b>9001KR25RH6</b>	<b>9001KR9R94H6</b>



**Selector switches and key switches**

<b>Type of operator</b>	Long black handle	Key, no. E10				
<b>Number and type of positions</b>	positions (1) 3 - spring return 2 - maintained 2 - spring return 3 - maintained	2 - maintained				
<b>Degree of protection</b>	IP 66 / NEMA & UL Type 1, 2, 3, 3R, 4, 6, 12 and 13					
<b>Mounting</b>	panel cut-out	30.5 mm				
<b>Depth below head (mm)</b>	42					
<b>Connection</b>	Screw clamp terminals					
<b>Catalog number</b>	N.O.	–	<b>9001KS11FBH5</b>	<b>9001KS34FBH5</b>	–	–
	N.O. + N.C.	<b>9001KS53FBH1</b>	–	–	<b>9001KS43FBH1</b>	<b>9001KS11K1H1</b>

(1) The symbol  indicates key withdrawal position.

## Illuminated complete operators



2

### Pilot lights

<b>Type of head</b>	Smooth lens cap			
Degree of protection	IP 66 / NEMA & UL Type 1, 2, 3, 3R, 4, 6, 12 and 13			
Mounting	panel cut-out	30.5 mm		
Depth below head (mm)	46			
Connection	Screw clamp terminals			
Type of light block	With high luminosity LED (included)		Incandescent BA 9s bulb	
			Transformer type	
		24 VAC/DC	120 VAC/DC	
			120 VAC	
<b>Catalog number</b>	green	<b>9001KP35LGG9</b>	<b>9001KP38LGG9</b>	<b>9001KP1G9</b>
	red	<b>9001KP35LRR9</b>	<b>9001KP38LRR9</b>	<b>9001KP1R9</b>
	amber	<b>9001KP35LYA9</b>	<b>9001KP38LYA9</b>	<b>9001KP1A9</b>



### Illuminated push buttons, spring return

<b>Type of head</b>	Spring return full guard		No guard		
Degree of protection	IP 66 / NEMA & UL Type 1, 2, 3, 3R, 4, 6, 12 and 13				
Mounting	panel cut-out	30.5 mm			
Depth below head (mm)	71				
Connection	Screw clamp terminals				
Type of light block	With high luminosity LED (included)		Incandescent BA 9s bulb		
			Transformer type		
		24 VAC/DC	120 VAC/DC		
			120 VAC		
<b>Catalog number</b>	green	N.O. + N.C.	<b>9001K3L35LGGH13</b>	<b>9001K3L38LGGH13</b>	<b>9001K2L1RH13</b>
	red	N.O. + N.C.	<b>9001K3L35LRRH13</b>	<b>9001K3L38LRRH13</b>	<b>9001K2L1GH13</b>
	amber	N.O. + N.C.	<b>9001K3L35LYAH13</b>	<b>9001K3L38LYAH13</b>	<b>9001K2L1AH13</b>



### Illuminated 41 mm mushroom head push buttons, high luminosity LED

Degree of protection	IP 66 / NEMA & UL Type 1, 2, 3, 3R, 4, 6, 12 and 13				
Mounting (mm)	panel cut-out	30.5 mm			
Depth below head (mm)	71				
Connection	Screw clamp terminals				
Type of light block	With high luminosity LED (included)		Incandescent BA 9s bulb		
			Transformer type		
		24 VAC/DC	120 VAC/DC		
			120 VAC		
<b>Type of head</b>	2 position, push-pull				
<b>Catalog number</b>	red	N.O. + N.C.	<b>9001KR9P35LRRH13</b>	<b>9001KR9P38LRRH13</b>	<b>9001KR9P1RH13</b>
<b>Type of head</b>	3 position, push-pull (pull: spring return, center: maintained, push: spring return)				
<b>Catalog number</b>	red	N.O. + N.C. late break	<b>9001KR8P35LRRH25</b>	<b>9001KR8P38LRRH25</b>	<b>9001KR8P1RH25</b>





**Push buttons, spring return**

<b>Type of push</b>	Full guard	No guard	Extended guard
<b>Color of push</b>	Multi-color (set of 7 clip-in colored caps)		
<b>Degree of protection</b>	IP 66 / NEMA & UL Type 1, 2, 3, 3R, 4, 4X, 12 and 13		
<b>Mounting</b>	panel cut-out	30.5 mm	
<b>Depth below head (mm)</b>	42		
<b>Connection</b>	Screw clamp terminals		
<b>Catalog number</b>	Universal 7 color—black, red, green, yellow, orange, blue & white	N.O. + N.C.	N.O.
		<b>9001SKR1UH13</b>	<b>9001SKR3UH13</b>
		<b>9001SKR1UH5</b>	<b>9001SKR3UH5</b>
			<b>9001SKR2UH13</b>
			<b>9001SKR2UH5</b>



**Selector switches**

<b>Type of operator</b>	positions	Long black handle	3 - spring return	2 - maintained	2 - spring return	3 - maintained
<b>Number and type of positions</b>						
<b>Degree of protection</b>		IP 66 / NEMA & UL Type 1, 2, 3, 3R, 4, 4X, 12 and 13				
<b>Mounting</b>	panel cut-out	30.5 mm				
<b>Depth below head (mm)</b>		42				
<b>Connection</b>		Screw clamp terminals				
<b>Catalog number</b>		N.O.	–	<b>9001SKS11FBH5</b>	<b>9001SKS34FBH5</b>	–
		N.O. + N.C.	<b>9001SKS53FBH1</b>	–	–	<b>9001SKS43FBH1</b>



**Pilot lights**

<b>Type of head</b>	Smooth lens cap		
<b>Degree of protection</b>	IP 66 / NEMA & UL Type 1, 2, 3, 3R, 4, 4X, 12 and 13		
<b>Mounting</b>	panel cut-out	30.5 mm	
<b>Depth below head (mm)</b>	46		
<b>Connection</b>	Screw clamp terminals		
<b>Type of light block</b>	With high luminosity LED (included)		Incandescent BA 9s bulb
	24 VAC/DC	120 VAC/DC	Transformer type
<b>Catalog number</b>	green	<b>9001SKP35LGG9</b>	<b>9001SKP38LGG9</b>
	red	<b>9001SKP35LRR9</b>	<b>9001SKP38LRR9</b>
	amber	<b>9001SKP35LYA9</b>	<b>9001SKP38LYA9</b>
			<b>9001SKP1G9</b>
			<b>9001SKP1R9</b>
			<b>9001SKP1A9</b>

# Accessories for plastic and metal Ø 30 mm control and signalling units

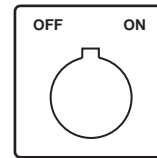
**Harmony**  
Class 9001  
K/SK

2



## Contact blocks with protected terminals

Type of contact	Single and dual contact blocks	
Contact rating	NEMA & UL Type A600/Q600, AC continuous carrying—10 A	
Connection	Screw clamp terminals	
Catalog number	N.O. + N.C.	9001KA1
	N.O.	9001KA2
	N.C.	9001KA3
	N.O. (early close) + N.C.	9001KA4
	N.C., late break	9001KA5
	N.O., early close	9001KA6



## Legends

Type	Color of legend	Aluminum, size 44 x 43 mm black background	Plastic, size 57 x 57 mm white background
Marking	Blank	9001KN200	9001KN100WP
	START	9001KN201	9001KN101WP
	STOP (red background)	9001KN202	9001KN102RP
	ON	9001KN203	9001KN103WP
	FORWARD	9001KN206	9001KN106WP
	REVERSE	9001KN207	9001KN107WP
	CLOSE	9001KN208	9001KN108WP
	OPEN	9001KN209	9001KN109WP
	DOWN	9001KN210	9001KN110WP
	UP	9001KN211	9001KN111WP
	HIGH	9001KN214	9001KN114WP
	LOW	9001KN215	9001KN115WP
	RESET	9001KN223	9001KN123WP
	OFF-ON	9001KN244	9001KN144WP
	ON-OFF	9001KN245	9001KN145WP
	HAND-OFF-AUTO	9001KN260	9001KN160WP



## Accessories

Type	Ring nut wrench for 9001K/SK and 22 mm	Blanking plug Chrome plated for 30 mm knockout	Emergency stop round yellow legend	
Catalog number	9001K95	9001K52	60 mm 9001KN9330	90 mm 9001KN8330



### XAL 22 mm (plastic, for use with XB5 devices)

Empty Enclosures (1)		IP 66 / NEMA & UL Type 4, 12 and 13		
Type	Number of Holes	Dimensions (H x W x D)	Catalog number	
Light gray base "RAL 7035"	1	68 x 68 x 53	XALD01	
Dark gray lid "RAL 7016"	2	106 x 68 x 53	XALD02	
	3	136 x 68 x 53	XALD03	
	4	166 x 68 x 53	XALD04	
	5	196 x 68 x 53	XALD05	
Light gray base "RAL 7035"	1	68 x 68 x 53	XALK01	
Yellow lid "RAL 1012"				

(1) For customer assembly using XB5 operators, 22 mm starting on page 2/16.



### XAP 22 mm (metallic, for use with XB4 devices)

Empty enclosures (2)		IP65 / NEMA & UL Type 4, 13		
Mounting				
Type	Usable Depth	Dimensions (H x W)	# of 22 mm knock-outs	Catalog number
Die Cast	49 mm	80 x 80	1	XAPG19201
Zinc Gray RAL 7032	74.5 mm	130 x 80	2	XAPG29202
		175 x 80	3	XAPG39203
		80 x 80	1	XAPG19501
		130 x 80	2	XAPG29502
		175 x 80	3	XAPG39503
		220 x 80	4	XAPG49504
Aluminum	74.5 mm	310 x 85	5	XAPG59505

(2) For customer assembly using XB4 operators, 22 mm starting on page 2/12.



### KY 30 mm (metallic, for use with Type K and SK devices) (3)

Type	Number of 30 mm cut-outs	NEMA ratings	Catalog number
Die Cast Aluminum	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	9001KYSS1
	2	1, 3, 4, 4X	9001KYSS2
	3	1, 3, 4, 4X	9001KYSS3

(3) For customer assembly using Type K and SK devices, 30 mm starting on page 2/20.

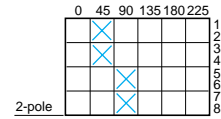
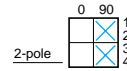
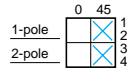
# Cam switches 20 A ratings

# Harmony K series

2



positions (°)

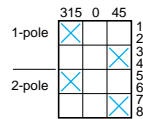


## Cam switches K2 series

Function	Switches	ON-OFF switches	Stepping switches
	45° switching angle	90° s switching angle	with "0" position
Degree of protection front face	IP 65 (1)	IP 65 (1)	IP 65 (1)
Conventional thermal current (Ith)	<b>20 A</b>	<b>20 A</b>	<b>20 A</b>
Rated insulation voltage (Ui) conforming to IEC60947-1	690 V	690 V	690 V
Number of positions	2	2	2 + "0" position
Number of poles	2	2	2
Dimensions of front plate (mm)	45 x 45	45 x 45	45 x 45
Front mounting method	Multifixing plate, 45 x 45 mm	<b>K2B002ALH</b>	<b>K2D012QLH</b>
	Plastic mounting plate for Ø 22 mm hole	<b>K2B002ACH</b>	<b>K2D012QCH</b>



positions (°)



## Cam switches K2 series

Function	Changeover switches
Degree of protection front face	IP 65 (1)
Conventional thermal current (Ith)	<b>20 A</b>
Rated insulation voltage (Ui) conforming to IEC60947-1	690 V
Number of positions	2 + "0" position
Number of poles	2
Dimensions of front plate (mm)	45 x 45
Front mounting method	Multifixing plate, 45 x 45 mm
	Plastic mounting plate for Ø 22 mm hole
	<b>K2D002ULH</b>
	<b>K2D002UCH</b>

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

**Universal range**

High performance and wide choice of units

2



Ø 70 mm

Illuminated beacons XVB L		Steady light signalling		Flashing light signalling	
<b>Light source</b>		Incandescent BA 15d bulb 10 W max. (not included)	Protected BA 15d LED (included)	Protected BA 15d LED (included)	"Flash" discharge tube 5 J (1)
<b>Degree of protection</b>		IP 66			
<b>Beacon catalog number (2)</b>	12–250 VAC/DC	XVBL3p	–	–	–
	24 VAC/DC	–	XVBL0Bp	XVBL1Bp	XVBL6Bp
	120 VAC	–	XVBL0Gp	XVBL1Gp	XVBL6Gp
	230 VAC	–	XVBL0Mp	XVBL1Mp	XVBL6Mp



Ø 70 mm

Indicator banks XVB C comprising 2 to 5 signalling units (3)		Base units	Steady light signalling		Flashing light signalling	"Flash" light signalling	Audible units (90 db at 1 m)
<b>Light source</b>		–	Incandescent BA 15d bulb, 10 W max. (not included)	Integral protected LED	Integral protected LED	"Flash" discharge tube 5 J (1)	–
<b>Degree of protection</b>		IP 66					
<b>Base unit catalog number</b>	with cover	XVBC21 (4)	–	–	–	–	–
	without cover	XVBC07 (5)	–	–	–	–	–
<b>Lens unit catalog number(2)</b>	12–230 VAC/DC	–	XVBC3p	–	–	–	–
	24 VAC/DC	–	–	XVBC2Bp	XVBC5Bp	XVBC6Bp	–
	120 VAC	–	–	XVBC2Gp	XVBC5Gp	XVBC6Gp	–
	230 VAC	–	–	XVBC2Mp	XVBC5Mp	XVBC6Mp	–
<b>Audible unit catalog number</b>	12–48 VAC/DC	–	–	–	–	–	XVBC9B
unidirectional	120–230 VAC	–	–	–	–	–	XVBC9M

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

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



Ø 50 mm

Indicator banks XVP C comprising 2 to 5 signalling units (3), black clamping ring (6)		Base unit	Steady or flashing light signalling	"Flash" light signalling		Audible units (55–85 dB at 1 m)
<b>Light source</b>		–	Incandescent BA 15d bulb, 7 W max. (not included)	"Flash" discharge tube 0.3 J	"Flash" discharge tube 0.6 J	–
<b>Degree of protection</b>		IP 65				
<b>Base unit</b>	with cover	XVPC21	–	–	–	–
<b>Catalog number (2)</b>	250 V max.	–	XVPC3p	–	–	–
	24 VAC/DC (flash) - 24 VDC (buzzer)	–	–	XVPC6Bp	–	XVPC09B
	120 VAC	–	–	–	XVPC6Gp	XVPC09G
	230 VAC	–	–	–	XVPC6Mp	XVPC09M

(1) To order a lens unit with a 10 J discharge tube, replace the number 6 by 8 in the catalog number (example: XVBL6Bp becomes XVBL8Bp).

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

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

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

## Ø 45 mm



Miniature illuminated beacons XVDLS		Steady light signalling		"Flash" light signalling	
Light source		Incandescent BA 15d bulb, 5W max. (not included)		"Flash" discharge tube, 0.5 J	
Degree of protection		IP 40			
Beacon catalog number (4)	24–230 VAC/DC	XVDLS3p		–	
	24 VAC/DC	–		XVDLS6Bp	
	120 VAC	–		XVDLS6Gp	
	230 VAC	–		XVDLS6Mp	

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

## Ø 70 mm



Illuminated beacons XVE L		Steady light signalling		"Flash" light signalling	
Light source		Incandescent BA 15d bulb, 5 W max. (not included)	Integral LED	"Flash" discharge tube, 1 J	
Degree of protection		IP 42/IP 54 (with sealing kit)			
Beacon catalog number(5)	24– 240 VAC/DC	XVEL3p		–	
	24 VAC/DC	–		XVEL2Bp	XVEL6Bp
	120 VAC	–		XVEL2Gp	XVEL6Gp
	230 VAC	–		XVEL2Mp	XVEL6Mp

(5) To obtain the complete catalog number, replace the **p** by the number designating the color as follows: 3 = green , 4 = red , 5 = orange, 6 = blue, 7 = clear.

## Ø 70 mm



Indicator banks XVE C comprising 2 to 5 signalling units (5)		Base units	Steady light signalling		Flashing light signalling	"Flash" light signalling	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 catalog number	IP 42	XVEC21	–	–	–	–	–
	IP 54	XVEC21P	–	–	–	–	–
Lens unit catalog number(6)	24–230 VAC/DC	–	XVEC3p		–	–	–
	24 VAC/DC	–	–	XVEC2Bp	XVEC5Bp	XVEC6Bp	XVEC9B
	120 VAC	–	–	XVEC2Gp	XVEC5Gp	XVEC6Gp	XVEC9G
	230 VAC	–	–	XVEC2Mp	XVEC5Mp	XVEC6Mp	XVEC9M

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



Rotating mirror beacon XVR and Sirens XVS		Rotating mirror beacon		Sirens, 106 db	
Description		Halogen bulb 70 W H1 (included)	Incandescent bulb 25 W BA 15d (included)	1 tone	2 tone
Diameter		Ø 165 mm		Ø 92 mm	
Degree of protection		IP 65		IP 40	
Catalog number(3)	24 VAC/DC	XVR1B9p	XVR1B0p	XVSB1	XVSB2
	120 VAC	–	XVR1G0p	XVSG1	XVSG2
	230 VAC	–	XVR1M0p	XVSM1	XVSM2

(3) To obtain the complete catalog number, replace the **p** by the number designating the color as follows: 3 = green , 4 = red , 5 = orange, 6 = blue, 8 = yellow.



Bulbs and LEDs		Beacons and indicator banks XVB / XVP <sup>(1)</sup>				Rotating mirror beacon XVR	
<b>Light source</b>		Incandescent BA 15d base 7 W	Incandescent BA 15d base 10 W (not XVP)	LED (2) BA 15d base	Flashing LED (2) BA 15d base	Incandescent BA 15d base 25 W	Halogen H1 base 70 W
<b>Catalog number</b>	12 V	DL1BEJ	DL1BLJ	–	–	–	–
	24 V	DL1BEB	DL1BLB	DL1BDBp	DL1BKBp	DL1 BRB	DL1 BRBH
	48 V	DL1BEE	DL1BLE	–	–	–	–
	120 V	DL1BEG	DL1BLG	DL1BDGp	DL1BKGP	DL1 BRG	–
	230 V	DL1BEM	DL1BLM	DL1BDMp	DL1BKMP	DL1 BRM	–

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

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



Bulbs and LEDs		Beacons XVDLS / XVE	Indicator banks XVE			
<b>Light source</b>		Incandescent BA 15d base 5 W	Incandescent BA 15d base 5 W	LED (3) BA 15d base	Flashing LED (3) BA 15d base	"Flash" discharge tube, 0.8 Joule BA 15d base
<b>Catalog number</b>	24 V	DL1EDBS	DL1EDBS	DL2EDBp	DL1EKBp	DL6BB
	120 V	DL1EDGS	DL1EDGS	DL2EDGp	DL1EKGP	DL6BG
	230 V	DL1EDMS	DL1EDMS	DL2EDMp	DL1EKMP	DL6BM

(3) To obtain the complete catalog number, replace the **p** by the number designating the color as follows: 1 = white, 3 = green, 4 = red, 6 = blue, 8 = orange.





Mounting accessories		Beacons and indicator banks		Indicator banks		Rotating mirror beacon
		XVB / XVE		XVP		XVR
<b>Description</b>		Aluminum tube with integral black plastic fixing base	Plastic tube with integral black plastic fixing base	Aluminum tube with integral black plastic fixing base	Aluminum tube with steel fixing bracket	-
<b>Diameter (mm)</b>		Ø 25	Ø 25	Ø 20	Ø 20	-
<b>Support tubes</b>	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	-	-	-	-
<b>Fixing plates, black</b>	for vertical support	XVBC12		XVPC12 (4)		XVR012
	for horizontal support	XVBZ01		-		XVR013

(4) To order an aluminum support tube with integral cream fixing base, add the letter **W** to the end of the catalog number (example: XVPC02**W**).

## Pendant control stations for control circuits

Ready to use



2

### Type XAC A "Pistol grip"

Degree of protection	IP 65 / Nema 4, 4X				
Rated operational characteristics	AC 15 (240V 3 A), DC 13				
Conventional thermal current	lthe	10 A			
Connection	Screw clamp terminals, 1 x 2.5 mm <sup>2</sup> or 2 x 1.5 mm <sup>2</sup>				
For control of	<b>single-speed motors</b> 		<b>2-speed motors</b> 		
Dimensions (mm)	W x H x D	52 x 295 x 71 (x 85 with ZA2BS44)		52 x 295 x 71 (x 85 with ZA2BS44)	
Number of operators	mechanically interlocked	2		2	
	Emergency stop	without	ZA2BS44	without	ZA2BS44
Catalog number		XACA201	XACA2013	XACA207	XACA2073



### Type XAC A

For control of single-speed motors					
Dimensions (mm)	W x H x D	80 x 314 x 70 (x 90 with ZA2BS44)		80 x 440 x 70 (x 90 with ZA2BS54)	
Number of operators	mechanically interlocked between pairs	2		4	
	Emergency stop	without	ZA2BS44	without	ZA2BS54
Catalog number		XACA271	XACA2713	XACA471	XACA4713



For control of single-speed motors					
Dimensions (mm)	W x H x D	80 x 500 x 70 (x 90 with ZA2BS54)		80 x 560 x 70	
Number of operators	mechanically interlocked between pairs	6		8	
	Emergency stop	without	ZA2BS54	without	
Catalog number		XACA671	XACA6713	XACA871	



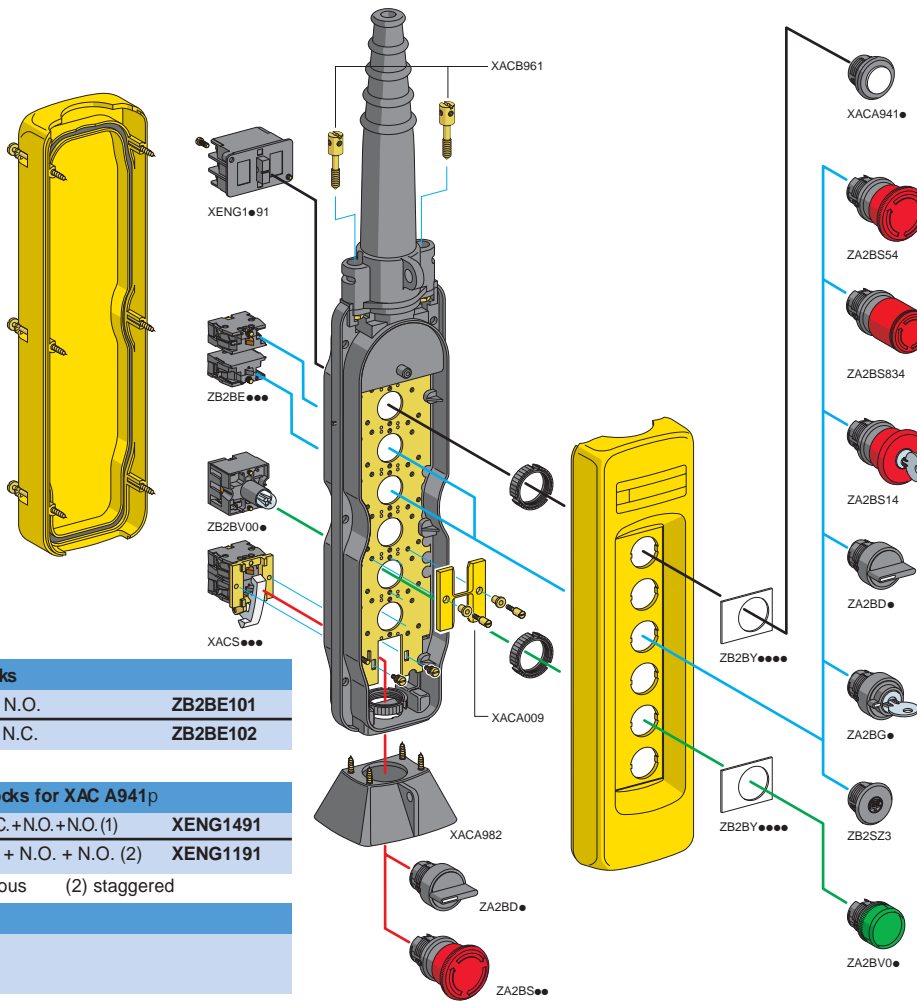
## Stations for user assembly



### Empty enclosures type XAC A

Number of holes	2	3	4	5	6	8	12
Catalog number	XACA02	XACA03	XACA04	XACA05	XACA06	XACA08	XACA12

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



Contact blocks	
Single-speed N.O.	ZB2BE101
Single-speed N.C.	ZB2BE102

Contacts blocks for XAC A941p	
Single-speed N.C. + N.O. + N.O. (1)	XENG1491
2-speed N.C. + N.O. + N.O. (2)	XENG1191
(1) simultaneous (2) staggered	

Contact blocks (for mounting in enclosure base)	
N.O.	XACS101
N.C. + N.O.	XACS105

**Protective guard (for base mounted units)**  
 XACA982  
 For selector switch or mushroom head push button

Booted operators	
white	XACA9411
black	XACA9412

Mushroom head, latching	
turn to release 30 mm	ZA2BS44
40 mm	ZA2BS54

Mushroom head, latching, trigger action	
turn to release 30 mm	ZA2BS834
40 mm	ZA2BS844

Mushroom head, latching	
key release 30 mm	ZA2BS74
40 mm	ZA2BS14

Selector switch	
2 pos. maintained	ZA2BD2
3 pos. maintained	ZA2BD3

Key switch	
key no. 455 2 pos. maintained	ZA2BG4
3 pos. maintained	ZA2BG5

Blanking plug	
with seal and mounting nut	ZB2SZ3



Pilot light heads	
white	ZA2BV01
green	ZA2BV03
red	ZA2BV04
yellow	ZA2BV05

Pilot light bodies 250 V max.	
direct supply	ZB2BV006
direct supply, through resistor	ZB2BV007

### Legends, 30 x 40 mm

Legends, 30 x 40 mm	With symbols conforming to NF E 52-124						With text			
Catalog number	ZB2BY4901	ZB2BY4903	ZB2BY4907	ZB2BY4909	ZB2BY4913	ZB2BY4915	ZB2BY4930	ZB2BY2303	ZB2BY2304	
								blank		
Catalog number	ZB2BY2904	ZB2BY2906	ZB2BY2910	ZB2BY2912	ZB2BY2916	ZB2BY2918	ZB2BY2931	white or yellow background	ZB2BY4101	



Type BW pendant station			
Degree of protection		IP 65 / NEMA & UL Type 4, 4X	
Rated operational characteristics		NEMA B600/P600	
Conventional thermal current		5 A	
Connection		Screw clamp terminals	
For control of		single-speed motors 	2-speed motor s 
Dimensions (mm)	W x H x D	56 x 119 x 75	56 x 119 x 75
Number of operators	mechanically interlocked	2	2
Catalog number	UP-DOWN	9001BW72Y	9001BW82Y
	FOR-REV	9001BW73Y	-
	ON-OFF (1)	9001BW74Y	-
	START-STOP (1)	9001BW76Y	-

(1) Maintained contact.

Type BW pendant station accessories	
Hanger bracket and sealing kit	9001B350

# Heavy duty pendant control stations

## Stations for user assembly

# Type SKYP



### Type SKYP heavy duty pendant stations

<b>Material</b>	Polymeric		
<b>Degree of protection</b>	NEMA & UL Type 1, 3, 4, 4X and 13		
<b>For outdoor use</b>	UV protected		
	<b>Size</b>	<b>Conduit Entrance Size</b>	<b>Catalog number</b>
	2 Button	3/4"-14NPT	9001SKYP2
	4 Button	3/4"-14 NPT	9001SKYP4
	6 Button	1"-11-1/2 NPT	9001SKYP6
	8 Button	1-1/4"-11-1/2 NPT	9001SKYP8
	10 Button	1-1/4"-11-1/2 NPT	9001SKYP10



### Push button units—2 button

<b>Contact rating</b>			
NEMA & UL Type A600/P600	10 A thermal	Single Speed—Momentary Interlocked	9001SKRU1
NEMA & UL Type B600	5 A thermal	Two Speed—Momentary Interlocked	9001SKRU2
		Three Speed—Momentary Interlocked	9001SKRU3
		Four Speed—Momentary Interlocked	9001SKRU4
		Five Speed—Momentary Interlocked	9001SKRU5



### Double legend plates for opposing functions

For SKRU1 through SKRU05	Blank-Blank	9001SKN200
	Hoist: Up-Down	9001SKN201
	Trolley: East-West	9001SKN202
	Trolley: Fwd.-Rev.	9001SKN203
	Trolley: North-South	9001SKN204
	Bridge: Fwd.-Rev.	9001SKN205
	Bridge: East-West	9001SKN206
	Bridge: North-South	9001SKN207
	Start-Stop	9001SKN208
Reset-Stop	9001SKN209	




### Type B standard duty control stations

Number of Operators	Nameplate Markings and Features	Surface Mounting NEMA & UL Type 1	Watertight and Dusttight NEMA & UL Type 4
1	Stop (Mushroom Button)	9001BG103	9001BW151
	Stop (Lockout)	9001BG104	9001BW148
	Hand-Off-Auto (Selector Switch)	9001BG112	-
2	Start-Stop	9001BG201	9001BW240
	Start-Stop (Lockout on Stop)	9001BG204	9001BW241
	Up-Down	9001BG208	9001BW243
	Start-Stop (Maintained Contact)	9001BG215	9001BW255
3	Forward - Reverse - Stop	9001BG302	-
	Open - Close - Stop	9001BG303	-
	Up - Down - Stop	9001BG305	-



### Type KY and SKY 30 mm control stations

Number of Operators	Nameplate Markings and Features	Die Cast Aluminum Type K Operators NEMA & UL Type 1, 4, 12, 13	Polymeric Type SK Operators NEMA & UL Type 1, 3, 4, 4X, 12, 13
1	Start	9001KYK11	9001SKY101
	Stop (Mushroom)	9001KYK13	9001SKY103
	To Stop - Break Glass (Red Enclosure)	9001KYK117	-
	Off - On (Selector Switch)	9001KYK110	9001SKY110
	Hand - Off - Auto (Selector Switch)	9001KYK111	9001SKY111
2	Start - Stop	9001KYK21	9001SKY201
	Up - Down	9001KYK25	9001SKY205
	Open - Close	9001KYK26	9001SKY206
3	Forward - Reverse - Stop	9001KYK31	9001SKY301
	Up - Down - Stop	9001KYK32	9001SKY302
	Open - Close - Stop	9001KYK33	9001SKY303



## DANGER

### HAZARDOUS APPLICATIONS

Do not use foot switches on machines without point of operation protection.

**Failure to follow this precaution will result in serious injury.**



Fully shielded with oversized pedal shield, side shields, and safety door.



Type AW foot switch with top pedal shield and side shields



Type AW foot switch with oversized pedal shield and side shields



Type AW foot switch without pedal shield

Description	Features	Fully Shielded with Oversized Pedal Shield, Side Shields and Safety Door	With Oversized Pedal Shield and Side Shields	With Pedal Shield and Side Shields	Unshielded See Warning note (3)
		Catalog number	Catalog number	Catalog number	Catalog number
Single Pole (2) Double Throw	Spring Return With Mechanical Latch	AW117 —	AW132 —	AW2 AW7	AW1 —
Two Pole (2) Double Throw	Spring Return With Mechanical Latch	AW124 (1) —	AW133 —	AW14 AW15	AW13 —
Two Stage (2) (One pole each stage)	Spring Return With Mechanical Latch in 1st Stage With Mechanical Latch in 2nd Stage	AW119 — —	AW134 — —	AW6 AW9 AW10	AW5 — —
Four Stage (2) (One pole each stage)	Spring Return	AW123	—	AW22	AW21
Single Pole Single Throw	Maintained Contact—Push On/Push Off	—	—	AW12	AW11

(1) 2 N.O. and 2 N.C. isolated, direct acting contacts.

(2) A single pole snap switch that contains two double break contact elements (1 N.O. and 1 N.C.) must be used on circuits of same polarity.

A double pole snap switch contains two electrically separated sets of contact elements allowing use on circuits of opposite polarity. Each set that contains two double break contact elements (1 N.O. and 1 N.C.) must be used on circuits of same polarity.

(3) WARNING: These foot switches must not be used to operate machines or equipment where the possibility of operator injury exists. Typical uses include Emergency Stop functions, "Dead man" controls, signal functions (lights, bells, etc).





Type		Compact display units				
Display	Capacity	2 lines, 20 characters		4 lines, 20 characters		
	Type	Back-lit LCD green		Back-lit LCD 3 colors green, orange, red	Back-lit LCD green	
Data entry		Via keypad with 8 keys (4 with changeable legends)				
Functions	Representation of variables	Alphanumeric				
Communication	Downloadable protocols	Uni-Telway, Modbus master			Modbus	
Development software		XBTL1001 and XBTL1003 (on Windows 98, 2000 and XP)				
Dimensions W x D x H		132 x 37 x 74 mm		132 x 37 x 74 mm		
Compatibility with PLCs		Twido, Nano, TSX Micro, Premium,	Twido, Nano, TSX Micro, Premium, Quantum, Momentum	Twido, Nano, TSX Micro, Premium, Quantum, Momentum	Tesys module U motor starters and Altivar drives	
Supply voltage		5 VDC (2)		24 VDC	24 VDC	
Catalog number		XBTN200	XBTN400	XBTN410	XBTN401	XBTNU400

(1) Except XBTN200: alphanumeric screen.

(2) 5 VDC power supplied via PLC terminal port.

### Terminals with matrix screen



Type		Terminals		
Display	Capacity	4 lines, 20 characters		
	Type	Back-lit LCD green		Back-lit LCD, 3 colors green, orange, red
Data entry		20 keys (12 configurable)		
Functions	Representation of variables	Alphanumeric		
Communication	Downloadable protocols	Uni-Telway, Modbus master		
Development software		XBTL1001 and XBTL1003 (on Windows 98, 2000 and XP)		
Dimensions W x D x H		137 x 37 x 118 mm		
Compatibility with PLCs		Twido, Nano, TSX Micro, Premium,	Twido, Nano, TSX Micro, Premium, Quantum, Momentum	
Supply voltage		5 VDC (1)		24 VDC
Catalog number		XBTR400	XBTR410	XBTR411

(1) 5 VDC power supplied via PLC terminal port.



# Graphic terminals

## With keypad or touchscreen

Magelis



2

Type		With keypad			With touchscreen	
Display	Screen size	5.7"	10.4"		10.4"	
	Type	TFT, 256 colors			TFT, 256 colors with resistive matrix tactile feedback (13 X 10 cells)	
Data entry	Soft function keys with LED	8	10		-	
	Static function keys with LED	10 with changeable legends	12 with changeable legends		-	
	Service keys	12	12		-	
	Alphan umeric keys	12 + 3 alphanumeric access			-	
	Touchscreen	no	no	no	yes	
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, potentiometer, selector				
	Recipes	125 records maximum with 5000 parameter values maximum				
	Curves	16 real-time				
	Alarm logs	Yes				
Communication	Downloadable protocols	Uni-TE, Modbus, AEG and for Allen Bradley, GE Fanuc, Omron, Siemens PLCs				
	Bus and networks	Fipway, Modbus Plus with PCMCIA card (except XBTF011110)				
Development software		XBT L1003 (on Windows 98, 2000 and XP)				
Dimensions W x D x H		220.3x88x265mm	296x91x332mm	197x92.6x147mm	296x91x222mm	
Compatibility with PLCs		Twido, Nano, TSX Micro, Premium, Quantum				
RJ45 Ethernet TCP/IP connector		no	no	yes	no	yes
Supply voltage		24 VDC				
Catalog number		XBTF011110 / F011310	XBTF024510	XBTF024610	XBTF034510	XBTF034610

## With 3.8" and 5.7" touchscreen open to NTIC<sup>(1)</sup>



Type		Optimum			
Display	LCD screen size	3.8"			5.7"
	Type	Back-lit STN monochrome, amber or red with 8 levels of gray			Back-lit STN monochrome, blue and white with 16 levels of gray
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, button, light, clock, flashing light, keypad			
	Curves	yes, with log			
	Alarm logs	yes, incorporated			
Communication	Downloadable protocols	Uni-TE, Modbus	Uni-TE, Modbus, Modbus TCP/IP		Uni-TE, Modbus,
	Bus and networks	-	Ethernet, IEEE 802.3 10 BASE-T, RJ45		-
Third party protocols		Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic)			
Development software		Vije Designer VJdpppTGSVppM (on Windows 2000 and XP)			
Dimensions W x D x H		130 x 41 x 104 mm			167.5 x 59.5 x 135 mm
Compatibility with PLCs		Twido, Nano, TSX Micro, Premium, Quantum			
Compact Flash card slot		no			
Character fonts		ASCII, (including European characters), Japanese (ANK, Kanji), Chinese (simplified Chinese), Taiwanese (traditional Chinese), Korean			
Built-in Ethernet TCP/IP		no	yes		no
Supply voltage		24 VDC			
Catalog number		XBGT1100	XBGT1130		XBGT2110

(1) NTIC: New Technology for Information and Communication



Type		Multifunction			
Display	LCD screen size	5.7"			
	Type	Back-lit STN, monochrome black and white with 16 levels of gray	STN, color 4096 colors	TFT, color 65,536 colors 16,384 if flashing	
Functions	Representation of variables	Alphanumeric, bitmap, bargraph, gauge, button, light, clock, flashing light, keypad			
	Curves	yes, with log			
	Alarm logs	yes, incorporated			
Communication	Downloadable protocols	Uni-TE, Modbus	Uni-TE, Modbus, Modbus TCP/IP	Uni-TE, Modbus	Uni-TE, Modbus, Modbus TCP/IP
	Bus and networks	-	Ethernet, IEEE 802.3 10/100 BASE-T, RJ45	-	Ethernet, IEEE 802.3 10/100 BASE-T, RJ45
	Expansion	For Modbus Plus network connection			
	Third party protocols	Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic)			
Development software	Vijeo Designer VJDpppTGSVppM (on Windows 2000 and XP)				
Dimensions W x D x H	167.5 x 59.5 x 135 mm				
Compatibility with PLCs	Twido, Nano, TSX Micro, Premium, Quantum				
Compact Flash card slot	yes				
Character fonts	ASCII, (including European characters), Japanese (ANK, Kanji), Chinese (simplified Chinese), Taiwanese (traditional Chinese), Korean				
Built-in Ethernet TCP/IP	no	yes	no	yes	
Supply voltage	24 VDC				
Catalog number	XBTGT2120	XBTGT2130	XBTGT2220	XBTGT2330	

## With 7.5" touchscreen open to NTIC<sup>(1)</sup>



Type		Multifunction		
Display	LCD screen size	7.5"		
	Representation of variables	STN, color 4096 colors	65,536 colors 16,384 if flashing	
	Curves	yes, with log		
	Alarm logs	yes, incorporated		
	Downloadable protocols	Modbus, Uni-TE, Modbus TCP/IP		
	Bus and networks	Ethernet, IEEE 802.3 10/100 BASE-T, RJ 45		
	Video input NTCS/PAL (59.5/50 Hz)			RCA connector (75 ohms)
	Audio input (microphone)		mini-jack connector	
Expansion	For Modbus Plus network connection			
Third party protocols	Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic)			
Development software	Vijeo Designer VJDpppTGSVppM (on Windows 2000 and XP)			
Dimensions W x D x H	215 60 x 170 mm			
Compatibility with PLCs	Twido, Nano, TSX Micro, Premium, Quantum			
Compact Flash card slot	yes			
Character fonts	ASCII, (including European characters), Japanese (ANK, Kanji), Chinese (simplified Chinese), Taiwanese (traditional Chinese), Korean			
Built-in Ethernet TCP/IP	yes			
Supply voltage	24 VDC			
Catalog number	XBTGT4320	XBTGT4330	XBTGT4340	

(1) NTIC: New Technology for Information and Communication

## With 10.4" touchscreen open to NTIC<sup>(1)</sup>



Type	Multifunction		
<b>Display</b>	LCD screen size	10.4"	
	Representation of variables	TFT, color 4096 colors	65,536 colors 16,384 if flashing
	Curves	yes, with log	
	Alarm logs	yes, incorporated	
	Downloadable protocols	Modbus, Uni-TE, Modbus TCP/IP	
	Bus and networks	Ethernet, IEEE 802.3 10/100 BASE-T, RJ45	
	Video input NTCS/PAL (59.5/50 Hz) Audio input (microphone) Expansion		RCA connector (75 ohms) mini-jack connector
<b>Third party protocols</b>	For Modbus Plus network connection Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic)		
<b>Development software</b>	Vijeo Designer VJDpppTGSVppM (on Windows 2000 and XP)		
<b>Dimensions W x D x H</b>	313 x 56 x 239 mm	270.5 x 57 x 212.5 mm	
<b>Compatibility with PLCs</b>	Twido, Nano, TSX Micro, Premium, Quantum		
<b>Compact Flash card slot</b>	yes		
<b>Character fonts</b>	ASCII, (including European characters), Japanese (ANK, Kanji), Chinese (simplified Chinese), Taiwanese (traditional Chinese), Korean		
<b>Built-in Ethernet TCP/IP</b>	yes		
<b>Supply voltage</b>	24 VDC		
<b>Catalog number</b>	<b>XBTGT5230</b>	<b>XBTGT5330</b>	<b>XBTGT5340</b>

(1) NTIC: New Technology for Information and Communication

## With 12.5" and 15" touchscreen open to NTIC<sup>(1)</sup>



Type	Multifunction		
<b>Display</b>	LCD screen size	12.1"	15"
	Representation of variables	TFT, color 65,536 colors 16,384 if flashing	
	Curves	yes, with log	
	Alarm logs	yes, incorporated	
	Downloadable protocols	Modbus, Uni-TE, Modbus TCP/IP	
	Bus and networks	Ethernet, IEEE 802.3 10/100 BASE-T, RJ 45	
	Video input NTCS/PAL (59.5/50 Hz) Audio input (microphone) Expansion		RCA connector (75 ohms) mini-jack connector
<b>Third party protocols</b>	For Modbus Plus network connection Mitsubishi (Melsec), Omron (Sysmac), Rockwell Automation (Allen Bradley), Siemens (Simatic)		
<b>Development software</b>	Vijeo Designer VJDpppTGSVppM (on Windows 2000 and XP)		
<b>Dimensions W x D x H</b>	313 x 56 x 239 mm	395 x 60 x 294 mm	
<b>Compatibility with PLCs</b>	Twido, Nano, TSX Micro, Premium, Quantum		
<b>Compact Flash card slot</b>	yes		
<b>Character fonts</b>	ASCII, (including European characters), Japanese (ANK, Kanji), Chinese (simplified Chinese), Taiwanese (traditional Chinese), Korean		
<b>Built-in Ethernet TCP/IP</b>	yes		
<b>Supply voltage</b>	24 VDC		
<b>Catalog number</b>	<b>XBTGT6330</b>	<b>XBTGT6340</b>	<b>XBTGT7340</b>

(1) NTIC: New Technology for Information and Communication 10.4"



Connection cables	PC to Magelis transfer cables				
	2.5 m	2.5 m	2 m	2 m	2 m
Application	PC to all XBTN200, N400 and R400	PC to all XBT except XBTN200, N400, R400 and XBTGT1p0	PC to XBTGT1000		PC to XBTGT2000 to XBTGT7000
Type of connector	RJ45/MiniDin + SUBD 9	SUBD 9/SUBD 25	SUBD 9/MiniDin	USB/MiniDin	USB/USB
Physical link	RS 232C	RS 232C	TTL		TTL
Catalog number	<b>XBTZ945 (1)</b>	<b>XBTZ915 (1)</b>	<b>XBTZG915</b>	<b>XBTZG925</b>	<b>XBTZG935</b>

(1) Adaptor **SR2CBL06** for linking USB port of PC, to be used in conjunction with connecting cables XBTZ945 and XBTZ915 for connecting display units or terminals XBTN/R/H/P/E/HM/PM/F.

Connection cables	Telemecanique PLC connection cables (2.5 m)			
Application	XBTGT, XBTN200, N400, R400, NU400 to: Twido, Nano, TSX Micro, Premium	All XBT except XBTGT1p0, XBTN200, N400, R400, NU400 to: Twido, Nano, TSX Micro, Premium	Quantum	Momentum (port 1)
Type of connector	RJ45 / MiniDin	MiniDin / SUBD 25	SUBD 9 / SUBD 25	RJ45 / SUBD 25
Physical link	RS 485	RS 485	RS 232	RS 232
Catalog number	<b>XBTZ9780</b>	<b>XBTZ968</b>	<b>XBTZ9710</b>	<b>XBTZ9711</b>

Cordsets for direct connection XBTGT terminals to Telemecanique products							
Automation product type	Connector type (product side)	Protocol	XBT type terminal, physical link	On XBT port	Length	Catalog number	Weight kg
Twido, Modicon TSX Micro, Modicon Premium	Terminal port 8-way female mini-DIN	Uni-TE (V1/V2), Modbus	XBTGT11p0, RS485	COM1	2.5 m	<b>XBTZ9780</b>	0.180
			XBTGT2pp0-GT7340, RS485	COM2			
			XBTGT2pp0-GT7340, RS485	COM1	2.5 m	<b>XBTZ968 + (2)</b>	0.180
					5 m	<b>XBTZ9681 + (2)</b>	0.340
Modicon Premium with TXSSCY2160p	25-way female SUB-D	Uni-TE (V1/V2)	XBTGT11p0, RS485	COM1	2.5 m	<b>XBTZ918 + (1)</b>	0.230
			XBTGT2pp0-GT7340, RS485	COM1	2 m	<b>XBTZ918 + (2)</b>	0.230
			XBTGT2pp0-GT7340, RS232C	COM1	2.5 m	<b>TSXPCX1031</b>	0.170
Modicon Quantum	9-way male SUB-D	Modbus	XBTGT11p0, RS232C	COM1	2.5 m	<b>XBTZ9710 + (1)</b>	0.210
			XBTGT2pp0-GT7340, RS232C	COM1	2.5 m	<b>XBTZ9710 + (3)</b>	0.210
					3.7 m	<b>990NAA26320</b>	0.290
Advantys STB	HE13 (NIM, network interface (module))	Modbus	XBTGT11pp0, RS232C	COM1	2.5 m	<b>XBTZ988 + (1)</b>	0.220
			XBTGT2pp0-GT7340, RS232C	COM1	2 m	<b>STBXCA4002</b>	0.210
					2.5 m	<b>XBTZ988 + (3)</b>	0.220
Modicon Momentum M1	RJ45 (port 1 of Momentum M1)	Modbus	XBTGT11p0, RS232C	COM1	2.5 m	<b>XBTZ9711 + (1)</b>	0.210
			XBTGT2pp0-GT7340, RS232C	COM1	2.5 m	<b>XBTZ9711 + (3)</b>	0.210
TeSysU starter-controllers, ATV31/61/71 variable speed drives, ATS48 soft starters	RJ45	Modbus	XBTGT11p0, RS485	COM1	3 m	<b>VW3A8306R30</b>	0.060
			XBTGT2pp0-GT7340, RS485	COM2			

- (1) XBTZG939 adaptor to use with cordsets whose catalog number is followed by + (1).
- (2) XBTZG909 adaptor to use with cordsets whose catalog number is followed by + (2).
- (3) XBTZG919 adaptor to use with cordsets whose catalog number is followed by + (3).
- (4) Male connector with XBTZGI232, female connector with XBTZGI485.



Network cards	PCMCIA type III card			Module
Compatibility	XBTF	XBTF	XBTF	XBGT
Protocol	Modbus Plus	Fipway	Fipio bus	Modbus Plus
Catalog number	TSXMBP100	TSXFPP20	TSXFPP10	TSXCUSBMBP



Memory cards	PCMCIA type II card	Compact Flash card			
Compatibility	XBTF	XBGT (except XBGTGT1000 and XBGTGT2110)			
Capacity	16 Mb	128 Mb	256 Mb	512 Mb	1Gb
Catalog number	XBTMEM16	XBTZGM128	XBTZGM256	MPCYN00CFE00N	MPCYN00CF100N



	Magelis Smart iPC 12"		Magelis Smart iPC 15"	
<b>Touchscreen</b>	12" LCD TFT	12" LCD TFT	15" LCD TFT	15" LCD TFT
<b>Resolution</b>	SVGA 800 x 600		XGA 1024 x 768	
<b>Front panel ports</b>	1 x USB, protected by IP65 cover		-	
<b>Processor</b>	Celeron M@600MHz		VIA @667MHz	
<b>RAM</b>	256 MB → 1024 MB		256 MB → 512 MB	
<b>Storage</b>	Compact Flash 1 GB		Compact Flash 512 MB or 1 GB	
<b>Reader</b>	-		-	
<b>Extension</b>	1 or 2 x PCMCIA type I (or type III)		2 x PCMCIA type I (or type III)	
<b>Ethernet port</b>	2 x 10/100 RJ45		1 x 10/100 RJ45	
<b>I/O ports</b>	4 x USB, 1 x RS232, DIO		2 x USB, 2 x RS232, 2 x PS2, 1 x LPT1	
<b>Power supply</b>	AC 100–240V		DC 24 V	
<b>Certifications</b>	UL508, CSA		UL508, UL1604, CSA	
<b>Dimensions W x D x H</b>	313 x 239 x 60 mm		395 x 294 x 65 mm	
<b>Operating System</b>	Windows XPe SP2 installed in Compact Flash memory			
<b>Applications</b>	Internet Explorer Media Player Office readers	Internet Explorer Media Player Office readers Vijeo Designer RT (1)	Internet Explorer Media Player Office readers	Internet Explorer Media Player Office readers Vijeo Designer RT (1)
<b>Catalog number</b>	<b>MPCST21NAJ10T</b>	<b>MPCST21NAJ10R</b>	<b>MPCST52NAJ00T</b> <b>MPCST52NAJ10T</b>	<b>MPCST52NAJ10R</b>

(1) RT: Run Time

	Magelis Compact iPC 12"		Magelis Compact iPC 15"		
<b>Touchscreen</b>	12" LCD TFT	12" LCD TFT	15" LCD TFT	15" LCD TFT	15" LCD TFT
<b>Resolution</b>	XGA 1024 x 768				
<b>Front panel ports</b>	1 x USB		-		
<b>Processor</b>	Celeron M@1.3GHz		VIA @667MHz OR Pentium 4 m 1.7GHz		
<b>RAM</b>	256 MB → 1024 MB		256 MB → 512 MB		
<b>Internal drive</b>	≥ 20 GB				
<b>Reader</b>	-		Diskette and CD-ROM		
<b>Extension</b>	1 x PCI, 1 x PCMCIA type I (or type III)		1 x PCI, 2 x PCMCIA type I (or type III)		
<b>Ethernet ports</b>	2 x 10/100 RJ45		1 x 10/100 RJ45		
<b>I/O ports</b>	4 x USB, 1 x RS232		2 x USB, 2 x RS232, 2 x PS2, 1 x LPT1		
<b>Power supply</b>	AC 100–240V				
<b>Certifications</b>	UL508, CSA		UL508, UL1604, CSA		
<b>Dimensions W x D x H</b>	313 x 239 x 100 mm		395 x 294 x 100 mm		
<b>Applications</b>		Vijeo Designer RT (1)		Vijeo Designer RT (1)	Vijeo Look RT/BT (2)
<b>Windows 2000</b>	<b>MPCKT22NAA00N</b>		<b>MPCKT52NAA00N</b> <b>MPCKT55NAA00N</b>		<b>MPCKT52NAA00A</b> <b>MPCKT55NAA00B</b>
<b>Windows Professional</b>	<b>MPCKT22NAX00N</b>	<b>MPCKT22NAX00R</b>	<b>MPCKT52NAX00N</b> <b>MPCKT55NAX00N</b>	<b>MPCKT52NAX00R</b> <b>MPCKT55NAX00R</b>	<b>MPCKT52NAX00A</b> <b>MPCKT55NAX00B</b>

(1) RT: Run Time

(2) RT: Run Time BT: Built Time

**Compact Flash card**

Capacity	Catalog number
512 Mb (empty) for Smart <i>i</i> PC or Compact <i>i</i> PC	MPCYN00CFE00N
Blank 1Gb Compact Flash for Smart <i>i</i> PC	MPCYN00CF100N
Compact Flash 1 GB for Smart <i>i</i> PC 15" loaded with Windows XPe SP2 and Web Applications	MPCYN00CF152T
Compact Flash 1 GB for Smart <i>i</i> PC 12" loaded with Windows XPe SP2 and Web Applications	MPCYN21CF100T
Compact Flash 1 GB for Smart <i>i</i> PC 15" loaded with Windows XPe SP2 and Vijeo Designer Run Time	MPCYN00CF152R
Compact Flash 1 GB for Smart <i>i</i> PC 15" loaded with Windows XPe SP2 and Vijeo Designer Run Time	MPCYN21CF100R

**RAM memory expansion**

Capacity	Catalog number
512 Mb SO DIMM for 15" Smart <i>i</i> PC	MPCYK02RAM512
512 Mb SO DIMM for 12" Smart <i>i</i> PC	MPCYK05RAM512
1024 Mb SO DIMM for Smart and Compact <i>i</i> PC 12"	MPCYK22RA1024





	Control box CPU		Front panel	Keypad	Touch/Keypad
	102	402	Touch		
Screen			15" LCD TFT	15" LCD TFT	15" LCD TFT
Resolution			XGA 1024 x 768	XGA 1024 x 768	XGA 1024 x 768
Interfaces			Touchscreen	Keypad/mouse	Keypad/mouse/touch
Front panel ports			PS2 and infrared		
Processor	Celeron M@1.3GHz/Pentium M @1.6GHz				
RAM	512 MB → 2 GB (maximum of 2 memory slots)				
Internal drive	≥ 40 GB				
Reader	combined DVD-R/ CD-RW drive available as an option				
Extension	1 x PCI	4 x PCI			
	2 x PCMCIA type I (or 1 type III)				
Ethernet ports	1 x 10/100 RJ45				
I/O ports	2 x USB, 2 x RS232, 2 x PS2, 1 x LPT1				
Power supply	AC 100–240 V or DC 24 V				
Certifications	UL508, UL1604, CSA		UL508, UL1604, CSA		
Dimensions W x D x H	290 x 290 x 130 mm	290 x 290 x 192 mm	460 x 340 x 45 mm	480 x 370 x 45 mm	480 x 370 x 45 mm
Operating system	Windows 2000 or XP pro pre-installed				
Catalog number	MPCEN02Npb00N	MPCDN02Npb00N	MPCNT50NNN20N	MPCNA50NNN20N	MPCNB50NNN20N
	MPCEN05Npb00N	MPCDN05Npb00N			

Power supply: Replace p with A for AC 100–240 V or with D for DC 24 V.

Operating system: Replace b with X for order the model with Windows XP pro pre-installed or with A to order the model with Windows 2000 pre-installed.

### i Display external screen



Separate components	
Display with 15" TS AC	External display with 15" color TFT LCD, XGA resolution (1024 x 768), Touchscreen, AC supply
Catalog number	MPCYT50NAN00N



Type	Configuration software			
Compatibility	XBTG / XBTGT / Smart iPC / Compact iPC			
Operating system	Windows 2000 and XP			
Version	Single (1 station)	Group (3 stations)	Team (10 stations)	Facility (unlimited licenses)
Catalog number for PC CD-ROM	–	–	–	–
Including PC cable	VJDSNDTGSVppM	VJDGNDTGSVppM	VJDTNDTGSVppM	VJDFNDTGSVppM
Serial	VJDSNDTGSVppM			
USB (XBTG/XBTGT11pp)	VJDSUDTGSVppM			
USB (XBTGT2000 and above)	VJDSUDTGAVppM			

Note: pp represents the version of the software.

## Vijeo Designer for Magelis touchscreen graphic terminals XBTG / XBTGT

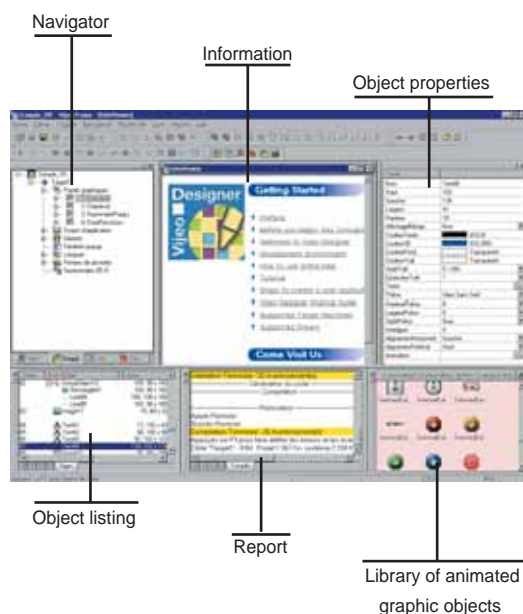
The Vijeo Designer configuration software can be used to create operator dialog applications designed for controlling automation systems for all the Magelis range of New Technology (NTIC) terminals: XBTG / XBTGT / Smart iPC / Compact iPC.

### Configuration

The Vijeo Designer configuration software enables operator dialog projects to be easily and quickly performed due to advanced ergonomics using multiple configuration windows. Vijeo Designer video solutions allow you to view real-time or recorded video.

Vijeo Designer configuration software also offers complete application management tools:

- Project creation, a project being one or several applications.
- WEB Gate remote access function to handle your HMI applications in complete security via a simple internet navigator using Ethernet architecture.
- Password and user group management.
- Recipe editor (32 groups of 64 recipes of 1024 ingredients max.).
- Cross-referencing of application variables.
- Application synoptics documentation.
- A simulation mode for easy testing of the application from the design office.
- Powerful graphics editor for easy creation of synoptics (more than 30 pre-configured animated objects).
- Data sharing (up to 300 variables between 8 panels).
- Support of 34 languages.
- Direct link to PLC symbol files (Unity, PL7, Concept, TwidoSoft, ProWORX, ModSoft).
- Upload capabilities: project can be backup on terminal to ease future maintenance.
- User friendly tool to recover data from terminal.





Vijeo Citect, which will be available by the end of 2006, is the system of choice when you require a scalable, flexible and reliable system for any industrial automation monitoring and control application. Take the stress out of your operations by ensuring that vital production data will always be available. Easily expand or modify your system as your requirements change.

Whether you need an easy-to-use operator interface with networked reporting capability, or an entire client / server HMI / SCADA system spanning multiple plants on different continents you can do it all with Vijeo Citect.

**Powerful visualization**

- Windows XP-style buttons
- Rounded rectangles
- Gradient files

**Performances**

- Multi-Processor/Hyper-Threaded Support
- Independent Server Control

**Usability**

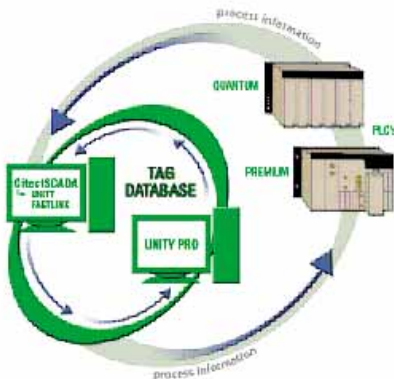
- Multi-Project Find & Replace
- Computer Setup Editor

**Security**

- Ensures that changes to the control system are implemented by authorized people
- Secures a project or a whole system from change between visits
- Retains complete operability of the system at runtime

**Integration brings productivity along the system life cycle**

- Define the objects you need
- Develop in concurrent the PLC and the SCADA applications
- Connect Vijeo Citect to the Unity Pro Project
- Create Vijeo Citect variables from Unity Pro
- Setup OFS (OPC Factory Server) as the I/O server
- Synchronize periodically the data bases during the commissioning phase
- Automatic consistency check manage by OFS in run-time



Vijeo Citect is characterized by its flexibility, allowing customers to build the super vision solution that corresponds to their needs.

**Evaluation License (free download)** allows the user to develop his application, and test it for 10 minutes in online mode. This system runs in standalone only.

**Development workshop (VJC1099●●)** is required for delivery of the physical components that make up an order such as the CD, hardware key, installation guide and packaging box. Either a USB or Parallel hardware key is needed to operate the server. The key is used to store floating client licenses. The key is also programmed to operate to a specific version of software and controls the number of points that can be viewed.

- Each server requires a hardware key (USB or parallel) in order to operate.
- The keys is also used to store floating client licenses
- The key is programmed to operate on up to a particular version
- The key controls the number of points that can be viewed

**Server licenses (VJC1011●●)** are purchased by number of points that are required to be displayed (not I/O). Each license includes a Control Client and a large number of drivers to communicate to most of the PLC available on the market. Add on components such as specialty drivers can be purchased separately.

**Client licenses** are generally purchased using the same point count as the Server to which they are connected. Four types of Clients are available:

- Control Clients (VJC1020●●)
- View Clients (VJC1030●●)
- Web Control Clients (VJC1022●●)
- Web View Clients (VJC1032●●)

Client licenses for operators should be static meaning that they have their own physical key that plugs into the back of the PC. This ensures access to the control systems. Users that do not need to use the client all the time may purchase floating licenses. The software can be loaded on many different PCs, but connections will only be allowed up until the number purchased has been reached.

Redundancy Client licenses (VJC10●●88) are only available for the standby server in a redundant configuration and are used to ensure the user always has the number of clients available that they have purchased.

An **upgrade offer (VJC10●●●●-yy)** for expanding client and server licenses to the next Points Count.

- If the server (or client) is upgraded, the keys must be reprogrammed.

**Additional drivers (VJC107●●●/VJC305●●●)** that can be used to implement the access to some specific PLC and DCS systems.

**Vijeo Citect Lite (VJC3111●●)** is the stand-alone version of Vijeo Citect.

Please contact your local Schneider Electric sales representative regarding specific part numbers for ordering.

Purchase of server and client licenses includes Bronze level support which provides access to technical support, software patches and updates for a period of one year.

To upgrade to Gold support or purchase additional support beyond the first year of ownership, please contact Schneider Electric Services at 800-468-5342 or 978-975-9079.





Implementation software	FactoryCast	FactoryCast HMI
Compatibility with Telemecanique PLCs	TSX Micro, Premium, Quantum	Premium, Quantum
Operating system	Windows 2000 and XP	
Application	Configuration of FactoryCast modules	Development and implementation of FactoryCast HMI application
Catalog number for multilingual PC CD-ROM	Included with FactoryCast modules	TLXCDFCHMIV1M

### FactoryCast

Remote "Ready to use" diagnostic functions using simple Internet browser

- Secure access to the diagnostics system and application
- Numerical or graphical display and adjustment of data
- E-mailing
- Open to customisation and creation of Web pages for diagnostics suited to your needs
- Library of animated graphic objects
- SOAP/XML server interface (Web services)

### FactoryCast HMI

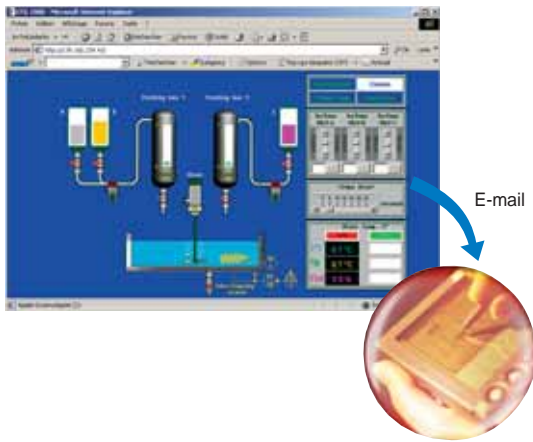
Identical diagnostic functions as FactoryCast + Core HMI functions embedded in a PLC module:

- Real-time database and acquisition of PLC data (1000 variables)
- Calculations for pre-processing of data
- Advanced alarm management with E-mailing
- Archiving of data in relational databases (SQL, Oracle, MySQL)
- Local Data Logging
- Recipe management
- HTML based Reporting function
- A user customizable Web server for creating an interface fully adapted to your needs
- Library of animated graphic objects
- SOAP/XML client/server interface (Web services)

### FactoryCast Gateway

New offer comprising "all in one" Web intelligent gateways integrated in a stand-alone enclosure:

- Communications network interfaces and Modbus or Uni-Telway serial links
- Remote access function, RAS server, Router
- Notification of alarms function by E-mail
- A user customizable Web server for creating an interface fully adapted to your needs
- Library of animated graphic objects
- SOAP/XML client/server interface (Web services)



## FactoryCast Web server modules



Automation platform		TSX Micro	Premium			Quantum		Modbus	Uni-TE
Data rate		10/100 Mbit/s	10 Mbit/s	10/100 Mbit/s		10/100 Mbit/s	10/100 Mbit/s	10/100 Mbit/s	
Services	Modbus TCP/IP Protocol	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	Uni-TETCP/IP Protocol	Yes	Yes	Yes	Yes	-	-	Yes	
Ethernet	Ethway Protocol	-	Yes	-	-	-	-	-	
	Serial Protocol	Uni-TE	-	-	-	-	Modbus Master	Uni-Telway slave	
	Modem Protocol	PPP, PAP	-	-	-	-	PPP, PAP	PPP, PAP	
	Global Data	-	-	Yes	-	Yes	-	-	
	I/O Scanning	-	-	Yes	-	Yes	-	Yes	
	Services gateway/RAS	Yes	-	-	-	-	-	Yes	
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Web server	Standard Web services	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	FactoryCast services	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	FactoryCast HMI services	-	-	-	Yes	-	Yes	-	
SOAP/XML Server	Web services	Yes	-	Yes	Yes	Yes	Yes	Yes	
Catalog number		TSXETZ510	TSXEY110WS	TSXEY5103	TSXWY100	140NOE7111	140NWM10000	TSXETG1000	TSXETG1010

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