

Control units Ø 16, Ø 22, and Ø 30

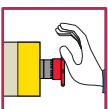
Emergency stop and

Emergency switching off

functions

Catalog

April 2015



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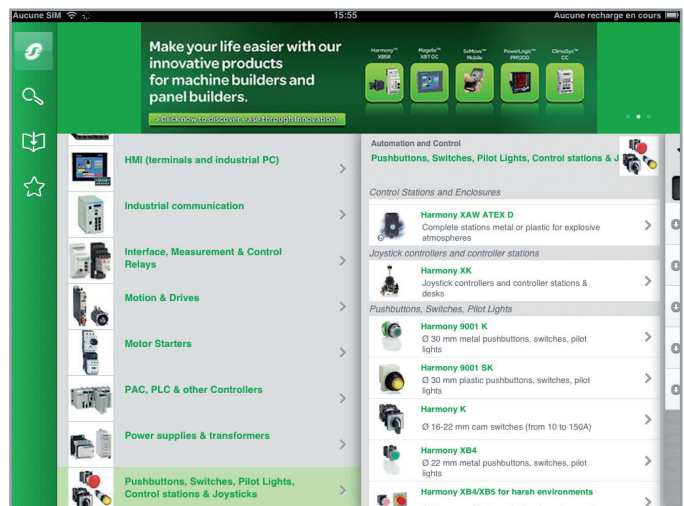
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Ø 16, Ø 22, and Ø 30 Emergency stop and Emergency switching off functions

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Control units Ø 16 plastic

Harmony XB6E monolithic and XB6 modular
Emergency stop pushbuttons

Presentation

The Ø 16 mm/0.630 in. Harmony XB6 and XB6E plastic range of Emergency stop pushbuttons is compact and thus suitable for installation on small machines and control panels. Their reduced diameter makes them suitable for applications where mounting space is less. Designed for control of machines and installations, these functions meet the requirements of majority of industrial applications.

■ This range includes:

- Ø 32 mm/1.260 in. Emergency stop trigger action pushbuttons for Start/Stop control of machines and installations, adjustment and parametering (contact functions),
- Ø 32 mm/1.260 in. Illuminated Emergency stop pushbuttons for control and signaling (contact functions and signaling functions),
- Fast connector sockets with push-in technology,
- Various accessories.

Installation

■ Harmony XB6 and XB6E products are both simple and quick to install:

- Mounting by single installer (self-maintaining of the head in its cut-out)
- Clip-together component system (head, body, contact blocks and LED)

■ Type of connection:

- For XB6 and XB6E: faston connector
- For XB6E: fast connector socket

Environment

The performance features of these range meet the most demanding international standards and approvals:

■ Degrees of protection:

- For XB6 and XB6E: IP 65 conforming to standard IEC 60529
- For XB6: NEMA type 4, 4X and 13 conforming to standard UL 50 and CSA C22-2 n° 94 (except key switches)

■ International standards:

- For XB6 and XB6E: EN/IEC 60947-5-5
- For XB6: conform to standards EN/IEC 60204-1 and EN/ISO 13850, to Machinery Directive 98/37/EC and to standard EN/IEC 60947-5-5

■ Product certifications:

- For XB6E: UR, CCC,
- For XB6: UL, CSA, CCC, GOST

Control units Ø 16 plastic

Harmony XB6E monolithic

Emergency stop pushbuttons and accessories



XB6ETI522P



XB6ETN521P

Emergency stop mushroom head pushbutton

Illuminated

Shape of head	Type of push	Type of contacts	Reference		Weight kg/lb
			With 12 V LED	With 24 V LED	
Circular, Ø 32 mm / 1.260 in.	Trigger action, turn to release, pull to release				0.027/0.060
		N/C			
		2	XB6ETI522P	XB6ETI523P	

Non-illuminated

Shape of head	Type of push	Type of contacts	Reference	Weight kg/lb
		 N/C		
Circular, Ø 32 mm /1.260 in.	Trigger action, turn to release, pull to release	2	XB6ETN521P	0.027/0.060

Accessories

Labels for Emergency stop mushroom head pushbutton

Shape	Color	Marking	Sold in lots of	Reference	Weight kg/lb
Circular	Yellow	EMERGENCY STOP	10	ZB6Y56	0.010/0.022

Control units Ø 16 plastic

Harmony XB6 modular

Emergency stop pushbuttons and circular legends



XB6AS8349B



XB6AS9349B



ZB6AS834



ZB6AS934



ZB6Y7130

Emergency stop trigger action and mechanical latching pushbuttons

Shape of head	Type of reset	Type of contacts	Diameter of push mm/in.	Color	Reference	Weight kg/lb
		 N/O  N/C				

Complete units

	Turn to release	1	2	30/1.181	Red	XB6AS8349B (ZB6Z4B + ZB6AS834)	0.041/0.090
	Key release (key n° 200)	1	2	30/1.181	Red	XB6AS9349B (ZB6Z4B + ZB6AS934)	0.056/0.123

Heads only

	Turn to release			30/1.181	Red	ZB6AS834	0.035/0.077
	Key release (key n° 200)			30/1.181	Red	ZB6AS934	0.050/0.110

Circular legends for Emergency Stop mushroom head pushbuttons (yellow)

Diameter mm/in.	Marking on yellow background	Reference	Weight kg/lb
45/1.772	Without (1)	ZB6Y7001	0.001/0.002
	ARRET D'URGENCE (1)	ZB6Y7130	0.001/0.002
	EMERGENCY STOP (1)	ZB6Y7330	0.001/0.002
	PARADA EMERGENCIA (1)	ZB6Y7430	0.001/0.002
	ARRESTO EMERGENZA (1)	ZB6Y7630	0.001/0.002
	NOT-HALT (1)	ZB6Y7230	0.001/0.002

(1) For complying with EN/ISO 13850 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.

Control units Ø 16 plastic

Harmony XB6 modular

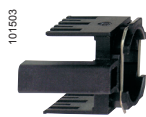
Complete bodies and accessories



ZB6Z1B



ZB6Y009



ZB6Y011



ZB6Y010



ZB6Y003



ZB6Y005

Complete bodies

Description	Supply voltage V	Type of contacts		Reference	Weight kg/lb
					
Faston connectors					
Direct supply Fixing collar + contact block	≤ 250	1	–	ZB6Z1B	0.004/0.009
		–	1	ZB6Z2B	0.004/0.009
		2	–	ZB6Z3B	0.006/0.013
		–	2	ZB6Z4B	0.006/0.013
		1	1	ZB6Z5B	0.006/0.013

Accessories

Description	Application		Sold in lots of	Reference	Weight kg/lb
Body accessories					
Body/fixing collar	For mounting contact blocks and light source		10	ZB6Y009	0.002/0.004
Body bracket (fixing screws included)	Printed circuit board mounting		4	ZB6Y011	0.010/0.022
Mounting accessories					
Plug-in socket adapter	Printed circuit board mounting		10	ZB6Y010	0.004/0.009
Dummy contact block housing (without contacts)	Printed circuit board mounting	Without pins for printed circuit	10	ZB6Y006	0.001/0.002
		With pins for printed circuit	10	ZB6Y006A	0.001/0.002
Adapter for XAL control station (Ø 22 mm /0.866 in. to Ø 16 mm /0.630 in. reducer)	Ø 16/0.630 in. circular, square or rectangular units		5	ZB6Y006A	0.001/0.002
Miscellaneous accessories					
Anti-rotation plate	Selector switches, Emergency stop buttons		10	ZB6Y003	0.001/0.002
Nut	Securing head on support		10	ZB6Y002	0.001/0.002
Dismantling tool	Removal of contact blocks from body/fixing collar		5	ZB6Y018	0.005/0.011
Extractor	Removal of pushbutton caps		5	ZB6Y016	0.010/0.022
Bezel tightening tool + bulb extractor	Tightening and slackening the bezel and changing bulbs		2	ZB6Y905	0.006/0.013
Metal assembly tool	Tightening of fixing nut		1	ZB6Y906	0.022/0.049
Dismantling tool kit, comprising 3 tools	Removal of contacts, fixing nuts and pushbutton caps		1	ZB6Y019	0.030/0.066
Female Faston connector	–		100	ZB6Y004	0.002/0.004
Blanking plug	–		10	ZB6Y005	0.001/0.002

Presentation

The Ø 22 mm/0.866 in. Harmony XB4 metal, XB5 plastic, and XB7 plastic range of Emergency stop and Emergency switching off functions combines simplicity of installation, flexibility, robustness, ergonomics and reliability. Designed for control of machines and installations, these functions meet the requirements of majority of industrial applications.

Following are broad and comprehensive offer under this range:

- Emergency stop trigger action and mechanically latching pushbuttons (conforming to standards EN/IEC 60204-1 and EN/ISO 13850)
- Emergency switching off mechanically latching pushbuttons (conforming to standard IEC 60364-5-53)
- Legends and legend holders
- Accessories and spare parts

Installation

- These products are both simple and quick to install:
 - Mounting by single installer (self-maintaining of the head in its cut-out)
 - Clip-together component system (head, body, contact blocks and LED)
 - Fixing by a single locking screw
 - Anti-loosening system for screw clamp terminals of contact blocks.
- Various types of connection are available:
 - Screw clamp terminal connector
 - Spring clamp terminal connector
 - Faston connector
 - Plug-in connector

Environment

The performance features of these range meet the most demanding international standards and approvals:

- Degrees of protection:

The range includes products for use in difficult industrial environments, due to:

 - Their high degree of protection for harsh environments (IP 66 / IP 69K with bellows)
 - Their resistance to high pressure cleaning
 - Their "all climates" TH compatibility
 - A wide choice of contact blocks with various breaking capacities (low, standard or high power switching)
 - For XB7: IP 65 for Emergency stop pushbuttons
- International standards:
 - Emergency stop function: Mushroom head Emergency stop trigger action and mechanical latching pushbuttons conform to standards EN/IEC 60204-1 and EN/ISO 13850, to Machinery Directive 2006/42/EC and to standard EN/IEC 60947-5-5.
 - Emergency switching off function: Mushroom head switching off mechanical latching pushbuttons conform to standards IEC 60364-5-53 and EN/IEC 60947-5-5.
- For XB7,
 - Emergency stop function: EN/IEC 60947-5-5, EN/ISO 13850 and EN/IEC 60204-1
 - Emergency switching off function: EN/IEC 60364-5-53
- Product certifications:
 - UL 508, CSA C22-2 n° 14, and GB 14048.5
 - International certifications: UL, CSA, CCC, EAC
 - Marine certifications for XB4 and XB5: BV, RINA, LROS, DNV, GL

Please consult our Customer Care Centre for a full explanation of these standards and directives.

Control units Ø 22

Harmony XB4, metal

Emergency stop and Emergency switching off functions

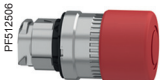
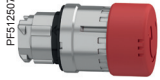
Conforming to EN/IEC 60204-1, 60364-5-53,

EN/ISO 13850 and Machinery Directive 2006/42/EC

Emergency stop and switching off pushbuttons with trigger action and mechanical latching (1) (2) Screw clamp terminal connections (Schneider Electric anti-loosening system)

Shape of head	Type of reset	Type of contact		Push		Reference	Weight kg/lb
				Ø mm/in.	Color		
Complete units							
	Push-pull	—	1	40/1.575	Red	XB4BT842 (ZB4BZ105 + ZB4BT84)	0.125/0.276
		1	1	40/1.575	Red	XB4BT845 (ZB4BZ105 + ZB4BT84)	0.136/0.300
	Turn to release	—	1	40/1.575	Red	XB4BS8442 (ZB4BZ102 + ZB4BS844)	0.118/0.260
		1	1	40/1.575	Red	XB4BS8445 (ZB4BZ105 + ZB4BS844)	0.130/0.287
		—	2	40/1.575	Red	XB4BS8444 (ZB4BZ104 + ZB4BS844)	0.130/0.287
		1	2	40/1.575	Red	XB4BS84441 (ZB4BZ141 + ZB4BS844)	0.140/0.309
	Key release (key n°455) (3) 	1	1	40/1.575	Red	XB4BS9445 (ZB4BZ105 + ZB4BS944)	0.170/0.375

Heads only

 ZB4BT844	Push-pull	30/1.181	Red	ZB4BT844	0.078/0.172
		40/1.575	Red	ZB4BT84	0.078/0.172
		60/2.362	Red	ZB4BX84	0.098/0.216
 ZB4BS834	Turn to release	30/1.181	Red	ZB4BS834	0.068/0.150
		40/1.575	Red	ZB4BS844	0.073/0.161
		60/2.362	Red	ZB4BS864	0.093/0.205
 ZB4BS964	Key release (key n° 455) 2 keys included with head (5) (3)	30/1.181	Red	ZB4BS934	0.094/0.207
		40/1.575	Red	ZB4BS944 (4)	0.098/0.216
		60/2.362	Red	ZB4BS964	0.118/0.260

Illuminated Emergency switching off function only, mechanical latching pushbuttons (1) Screw clamp terminal connections (Schneider Electric anti-loosening system)

Shape of head	Type of reset	Push		Reference	Weight kg/lb
		Ø mm/in.	Color		
 ZB4BW643	Push-pull	40/1.575	Red	ZB4BW643	0.051/0.112

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see page 12 of Harmony XB4 catalog DIA5ED21212EN.

(2) It is recommended that a legend or yellow background is used.

(3) The symbol  indicates key withdrawal position(s).

(4) Other key numbers:

- key n° 421E: add suffix **12** to the reference.- key n° 458A: add suffix **10** to the reference.- key n° 520E: add suffix **14** to the reference.- key n° 3131A: add suffix **20** to the reference.- key n° 4A185: add suffix **D** to the reference.Example: To order a Ø 40 mm/1.575 in. red mushroom head for a trigger action and mechanical latching Emergency stop pushbutton, with release by key n° 421E, the reference becomes: **ZB4BS94412**.

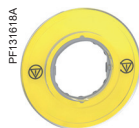
(5) For specific keys with other numbers, please consult our Customer Care Centre.

(6) Only for use with bodies comprising a light source with integral LED.

Harmony XB4, metal

Emergency stop and Emergency switching off functions

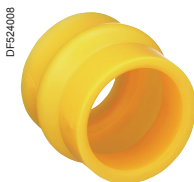
Circular yellow legends for Emergency stop



ZBY9121



ZBY9420



ZBZ28

Circular yellow legends for Emergency stop ⁽¹⁾

Description	Marking	Color	Sold in lots of	Reference	Weight kg/lb
Ø 60 mm/2.362 in. legend for Emergency stop function	–	Yellow	5	ZBY9121	0.007/0.015
	EMERGENCY STOP	Yellow	5	ZBY9320	0.007/0.015
	ARRET D'URGENCE	Yellow	5	ZBY9120	0.007/0.015
	NOT HALT	Yellow	5	ZBY9220	0.007/0.015
	PARADA DE EMERGENCIA	Yellow	5	ZBY9420	0.007/0.015
	ARRESTO DI EMERGENZA	Yellow	5	ZBY9620	0.007/0.015

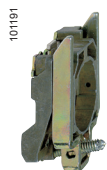
Bellows for harsh environments (IP 69K) ⁽²⁾

For use in	Material	For use with	Color	Sold in lots of	Unit reference	Weight kg/lb
Environments subject to humidity, dust, high pressure, cleaning, etc.	Silicone	Emergency stop / Switching off function	Yellow	2	ZBZ28	0.009/0.020
		Other functions	Black	2	ZBZ58	0.009/0.020

Heads with black metal bezel

To order, add a figure 7 to the references selected above.

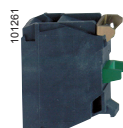
Example: **ZB4BT844** becomes **ZB4BT8447**.⁽¹⁾ Other legend models for Emergency stop and Emergency switching off function see page 15.⁽²⁾ Not compatible with Ø 30 mm/1.181 in. pushbutton.



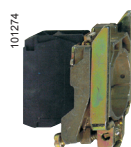
ZB4BZ009



ZBE101



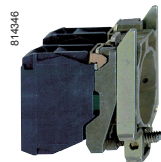
ZBE203



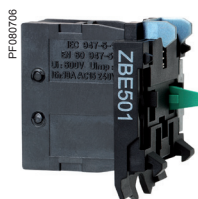
ZB4BZ101



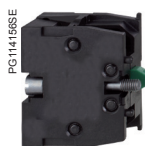
ZBE201



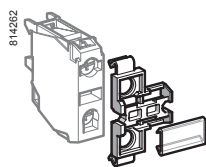
ZB4BZ106



ZBE501



ZB2BE101



ZBZ001

Body/fixing collar

For use with	Sold in lots of	Unit reference	Weight kg/lb
Electrical block (contact or light)	10	ZB4BZ009	0.038/0.084

Contact functions (1)**Screw clamp terminal connections (Schneider Electric anti-loosening system)**

Description	Type of contact	Description			Sold in lots of	Unit reference	Weight kg/lb
			N/O	N/C			

Contacts for standard applications

Contact blocks	Single	Standard	1	–	5	ZBE101	0.011/0.024
			–	1	5	ZBE102	0.011/0.024
	Double	Standard	2	–	5	ZBE203	0.020/0.044
			–	2	5	ZBE204	0.020/0.044
			1	1	5	ZBE205	0.020/0.044
			–	1	1	ZB4BZ101	0.053/0.117
	Single with body/fixing collar	Standard	–	1	1	ZB4BZ102	0.053/0.117
			2	–	1	ZB4BZ103	0.062/0.137
			–	2	1	ZB4BZ104	0.062/0.137
			1	1	1	ZB4BZ105	0.062/0.137
			1	2	1	ZB4BZ141	0.072/0.159

Contacts for specific applications

Low power switching	Single	Standard	1	–	5	ZBE1016	0.012/0.026
			–	1	5	ZBE1026	0.012/0.026
		Dusty environment(2) (IP 5X, 50 µm dust)	1	–	5	ZBE1016P	0.012/0.026
			–	1	5	ZBE1026P	0.012/0.026
Staggered contacts	Single	Early make N/O	1	–	5	ZBE201	0.011/0.024
		Late break N/C	–	1	5	ZBE202	0.011/0.024
		Single with body/fixing collar	1	1	5	ZB4BZ106	0.062/0.137
		Staggered N/O+N/O	2	–	5	ZB4BZ107	0.062/0.137
High power switching	Single	Standard (3)	1	–	1	ZBE501	0.020/0.044
			–	1	1	ZBE502	0.020/0.044
			2	–	1	ZBE503	0.032/0.071
			–	2	1	ZBE504	0.032/0.071
			1	1	1	ZBE505	0.032/0.071
			–	1	1	ZB2BE101	0.020/0.044
Additional contact blocks for high power switching	Single	Standard (4)	–	1	1	ZB2BE102	0.020/0.044

Clip-on legend holder, sheet of blank legends and labelling software

Description	Sold in lots of	Unit reference	Weight kg/lb
Clip-on legend-holder for electrical blocks with screw clamp terminal connections(5). For identification of an XB4B control or signaling unit	10	ZBZ001	0.001/0.002
Sheet of 50 blank legends for legend holder ZBZ001	10	ZBY001	0.023/0.051
"SIS Label" labelling software for legend design (ZBY001 legends)(for design of legends in English, French, German, Italian, Spanish)	1	XBY2U	0.100/0.220

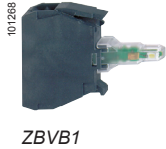
(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows). Maximum number of contacts is specified on page 12 of DIA5ED21212EN, Harmony XB4 catalog.

(2) It is not possible to fit an additional contact block on the back of these contact blocks.

(3) It is not possible to use these contacts with light blocks.

(4) To be fitted on the back of ZBE50● contacts.

(5) This legend holder is not compatible with high power switching contacts.



Light blocks					
Description	Supply voltage V	Color of light source	Sold in lots of	Unit reference	Weight kg/lb
Light blocks with screw clamp terminal connections (Schneider Electric anti-loosening system)					
Integral LED (to combine with heads for integral LED) Protected LED	~ 12 (50/60 Hz)	White	5	ZBVJ1	0.017/0.037
		Green	5	ZBVJ3	0.017/0.037
		Red	5	ZBVJ4	0.017/0.037
		Orange	5	ZBVJ5	0.017/0.037
		Blue	5	ZBVJ6	0.017/0.037
	~ 24 (50/60 Hz)	White	5	ZBVB1	0.017/0.037
		Green	5	ZBVB3	0.017/0.037
		Red	5	ZBVB4	0.017/0.037
		Orange	5	ZBVB5	0.017/0.037
		Blue	5	ZBVB6	0.017/0.037
	~ 24...120 (50/60 Hz)	White	5	ZBVBG1	0.017/0.037
		Green	5	ZBVBG3	0.017/0.037
		Red	5	ZBVBG4	0.017/0.037
		Orange	5	ZBVBG5	0.017/0.037
		Blue	5	ZBVBG6	0.017/0.037
	~ 110...120 (50/60 Hz)	White	5	ZBVG1	0.017/0.037
		Green	5	ZBVG3	0.017/0.037
		Red	5	ZBVG4	0.017/0.037
		Orange	5	ZBVG5	0.017/0.037
		Blue	5	ZBVG6	0.017/0.037
	~ 230...240 (50/60 Hz)	White	5	ZBVM1	0.017/0.037
		Green	5	ZBVM3	0.017/0.037
		Red	5	ZBVM4	0.017/0.037
		Orange	5	ZBVM5	0.017/0.037
		Blue	5	ZBVM6	0.017/0.037

Flashing light blocks with screw clamp terminal connections (Schneider Electric anti-loosening system)

Integral LED (to combine with heads for integral LED) Protected LED	~ 24 (50/60 Hz)	White	5	ZBV18B1	0.017/0.037
		Green	5	ZBV18B3	0.017/0.037
		Red	5	ZBV18B4	0.017/0.037
		Orange	5	ZBV18B5	0.017/0.037
		Blue	5	ZBV18B6	0.017/0.037
	~ 110...120 (50/60 Hz)	White	5	ZBV18G1	0.017/0.037
		Green	5	ZBV18G3	0.017/0.037
		Red	5	ZBV18G4	0.017/0.037
		Orange	5	ZBV18G5	0.017/0.037
		Blue	5	ZBV18G6	0.017/0.037
	~ 230...240 (50/60 Hz)	White	5	ZBV18M1	0.017/0.037
		Green	5	ZBV18M3	0.017/0.037
		Red	5	ZBV18M4	0.017/0.037
		Orange	5	ZBV18M5	0.017/0.037
		Blue	5	ZBV18M6	0.017/0.037

For use with	Supply voltage V	Description	Reference	Weight kg/lb
Transformer blocks for 24 V light blocks (1)				
Light blocks with integral LED	~ 400 V - 50Hz	Transformer 400 V - 24 V ~	ZBV5B (2)	0.090/0.198
Blocks for "test light" function				
Light blocks	~ 12 and 24 ~ 24...120	Single module, 1 connecting wire	ZBZG156 (3)	0.010/0.022
Light blocks with integral LED	~ 48...230	Double module, with connecting wires	ZBZG156 (3)	0.010/0.022

LED suppressors

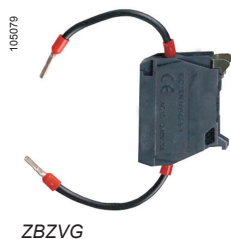
For use with	Supply voltage V	Level of protection	Reference	Weight kg/lb
Light blocks with integral LED fitted with screw clamp terminal connections	~ 120	25...120 VA	ZBZVG	0.010/0.022
	~ 230	30...230 VA	ZBZVM	0.010/0.022

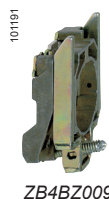
(1) To be used with 2 dummy contact blocks ZBE000.

(2) To order ~ 440...460 V - 60 Hz transformer blocks, please replace "5" in the reference by "8": ZBV5B becomes ZBV8B. To order ~ 550...600 V - 60 Hz transformer blocks, please replace "5" by "9": ZBV5B becomes ZBV9B.

(3) Block for use with ~ light blocks with integral LED types ZBVJ●, ZBVB●, ZBVBG● or with direct supply light block for BA 9s bulb, ZBV6.

(4) Block for use ~ light blocks integral LED types ZBVG●, ZBVM●, see connection on Schneider Electric website, Harmony XB4.

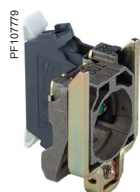




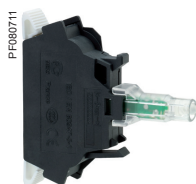
ZB4BZ009



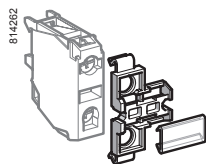
ZBE1015



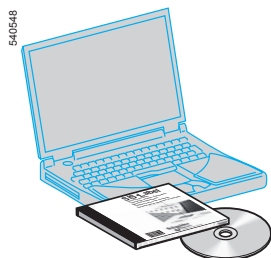
ZB4BZ1015



ZBVB35



ZBZ001



XBY2U

Body/fixing collar

For use with	Sold in lots of	Unit reference	Weight kg/lb
Electrical block (contact or light)	10	ZB4BZ009	0.038/0.084

Contact functions Spring clamp terminal connections (1)

Description	Type of contact			Sold in lots of	Unit reference	Weight kg/lb
Contact blocks	Single	1	–	4	ZBE1015	0.011/0.024
		–	1	4	ZBE1025	0.011/0.024
	Single with body/fixing collar	1	–	1	ZB4BZ1015	0.053/0.117
		–	1	1	ZB4BZ1025	0.053/0.117
		2	–	1	ZB4BZ1035	0.062/0.137
		–	2	1	ZB4BZ1045	0.062/0.137
		1	1	1	ZB4BZ1055	0.062/0.137

Contacts for standard applications**Light blocks** Spring clamp terminal connections (1)

Description	Supply voltage V	Color of light source	Sold in lots of	Unit reference	Weight kg/lb
Integral LED (to combine with heads for integral LED)	~ 12 (50/60 Hz)	White	4	ZBVJ15	0.016/0.035
		Green	4	ZBVJ35	0.016/0.035
		Red	4	ZBVJ45	0.016/0.035
		Orange	4	ZBVJ55	0.016/0.035
		Blue	4	ZBVJ65	0.016/0.035
	~ 24 (50/60 Hz)	White	4	ZBVB15	0.016/0.035
		Green	4	ZBVB35	0.016/0.035
		Red	4	ZBVB45	0.016/0.035
		Orange	4	ZBVB55	0.016/0.035
		Blue	4	ZBVB65	0.016/0.035
Integral LED + body/fixing collar	~ 110...120 (50/60 Hz)	White	4	ZBVG15	0.016/0.035
		Green	4	ZBVG35	0.016/0.035
		Red	4	ZBVG45	0.016/0.035
		Orange	4	ZBVG55	0.016/0.035
		Blue	4	ZBVG65	0.016/0.035
	~ 230...240 (50/60 Hz)	White	4	ZBVM15	0.016/0.035
		Green	4	ZBVM35	0.016/0.035
		Red	4	ZBVM45	0.016/0.035
		Orange	4	ZBVM55	0.016/0.035
		Blue	4	ZBVM65	0.016/0.035
Integral LED + body/fixing collar	~ 110...120 (50/60 Hz)	Green	4	ZB4BVG35	0.053/0.117
		Red	4	ZB4BVG45	0.053/0.117

Protected LED

Sheet of 50 blank legends

For use with	Sold in lots of	Unit reference	Weight kg/lb
Legend holder ZBZ001	10	ZBY001	0.023/0.051

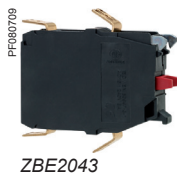
"SIS Label" labelling software (for legends ZBY001)

For legend design for English, French, German, Italian, Spanish	10	XBY2U	0.100/0.220
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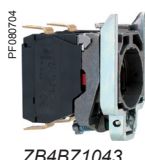
(1) It is not possible to fit an additional block on the back of these contact or light blocks.



ZBE1023



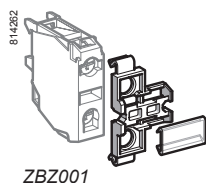
ZBE2043



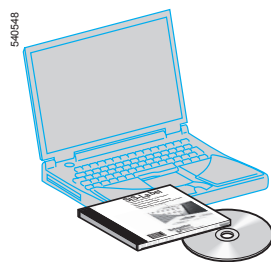
ZB4BZ1043



ZBE5043



ZBZ001



XBY2U

Contact functions ⁽¹⁾**Faston connectors (Ø 6.35 or 2 x 2.8 mm/0.250 or 2 x 0.110 in.)**

(Schneider Electric anti-loosening system)

Description	Type of contact			Sold in lots of	Unit reference	Weight kg/lb
		N/O	N/C			

Contacts for standard applications

Contact blocks	Single	1	—	5	ZBE1013	0.011/0.024
		—	1	5	ZBE1023	0.011/0.024
	Double	2	—	5	ZBE2033	0.020/0.044
		—	2	5	ZBE2043	0.020/0.044
	Single with body/fixing collar	1	1	5	ZBE2053	0.020/0.044
		1	—	1	ZB4BZ1013 (2)	0.053/0.117
		—	1	1	ZB4BZ1023 (2)	0.053/0.117
		2	—	1	ZB4BZ1033	0.062/0.137
		—	2	1	ZB4BZ1043	0.062/0.137
		1	1	1	ZB4BZ1053	0.062/0.137

Application	Type of contact	Description			Sold in lots of	Unit reference	Weight kg/lb
			N/O	N/C			

Contacts for specific applications

Low power switching	Single	Standard		1	–	5	ZBE10163 (2)	0.012/0.026
				–	1	5	ZBE10263 (2)	0.012/0.026
		Dusty environments (3) (IP 5X, 50 µm dust)		1	–	5	ZBE1016P3 (2)	0.012/0.026
				–	1	5	ZBE1026P3 (2)	0.012/0.026
Staggered contacts	Single	Early make		1	–	5	ZBE2013 (2)	0.011/0.024
			N/O					
		Late break		–	1	5	ZBE2023 (2)	0.011/0.024
			N/C					
High power switching	Single	Standard (4)		1	–	1	ZBE5013	0.021/0.046
				–	1	1	ZBE5023	0.021/0.046
				2	–	1	ZBE5033	0.033/0.073
				–	2	1	ZBE5043	0.033/0.073
				1	1	1	ZBE5053	0.033/0.073

Clip-on legend holder for electrical blocks with screw clamp terminal connections ⁽⁵⁾

For use with	Sold in lots of	Unit reference	Weight kg/lb
Identification of an XB4B control or signaling unit	10	ZBZ001	0.001/0.002

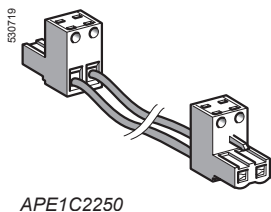
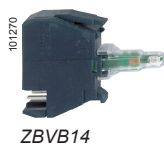
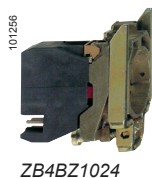
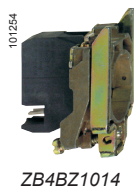
Sheet of 50 blank legends

Legend holder ZBZ001	10	ZBY001	0.023/0.051
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“SIS Label” labelling software (for legends ZBY001)

For legend design for English, French, German, Italian, Spanish	1	XBY2U	0.100/0.220
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- (1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows).
- (2) To order products with screw clamp terminal connections for lugs, replace the 3 at the end of the reference with a 9. Example: ZBE1013 becomes ZBE1019.
- (3) It is not possible to fit an additional contact block on the back of these contact blocks.
- (4) It is not possible to use these contacts with light blocks.
- (5) This legend holder is not compatible with high power switching contact blocks.

**Body/fixing collar**

For use with	Sold in lots of	Unit reference	Weight kg/lb
Electrical block (contact or light)	10	ZB4BZ009	0.038/0.084

Contact functions Plug-in connector (1)

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg/lb
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Contacts for standard applications

Contact blocks	Single	1	—	5	ZBE1014	0.011/0.024
		—	1	5	ZBE1024	0.011/0.024
	Single with body/fixing collar	1	—	1	ZB4BZ1014	0.050/0.110
		—	1	1	ZB4BZ1024	0.050/0.110
		2	—	1	ZB4BZ1034	0.058/0.128
		—	2	1	ZB4BZ1044	0.058/0.128
		1	1	1	ZB4BZ1054	0.058/0.128
		1	2	1	ZB4BZ1414	0.064/0.141

Light blocks Plug-in connector

Description	Supply voltage V	Color of light source	Sold in lots of	Unit reference	Weight kg/lb
Integral LED (to combine with heads for integral LED)	~ 24 (50/60 Hz)	White	5	ZBVB14	0.016/0.035
		Green	5	ZBVB34	0.016/0.035
		Red	5	ZBVB44	0.016/0.035
		Orange	5	ZBVB54	0.016/0.035
		Blue	5	ZBVB64	0.016/0.035
	~ 110...120 (50/60 Hz)	White	5	ZBVG14	0.016/0.035
		Green	5	ZBVG34	0.016/0.035
		Red	5	ZBVG44	0.016/0.035
		Orange	5	ZBVG54	0.016/0.035
		Blue	5	ZBVG64	0.016/0.035
	~ 230...240 (50/60 Hz)	White	5	ZBVM14	0.016/0.035
		Green	5	ZBVM34	0.016/0.035
		Red	5	ZBVM44	0.016/0.035
		Orange	5	ZBVM54	0.016/0.035
		Blue	5	ZBVM64	0.016/0.035

Connecting cables and connector

Description	Number of connectors	Wire c.s.a. mm ² /AWG	Length Ø mm/in.	Sold in lots of	Unit reference	Weight kg/lb
Cables with connectors 2-pin, Ø 5.08 mm/0.200 in. pitch	1	0.75/19	500/19.685	8	APE1C2150	0.120/0.265
	2	0.75/19	500/19.685	8	APE1C2250	0.180/0.397
Spring terminal connector 2-pin, Ø 5.08 mm/0.200 in. pitch	—	0.2 to 0.5/25 — to 14		10	APE1PRE21	0.003/0.007

(1) It is not possible to fit an additional contact block on the back of these contact blocks.

Circular yellow legends for mushroom head pushbuttons

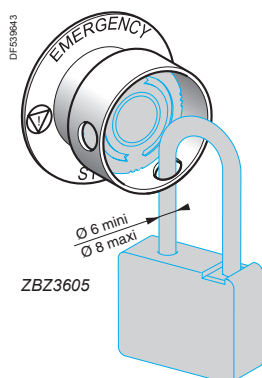
Diameter mm/in.	Conforming to standards	Marking on Yellow background	Sold in lots of	Unit Reference	Weight kg/lb
Used for “Emergency stop” function (1)					
90/3.543	EN/IEC 60204-1 and EN/ISO 13850	–	10	ZBY8140	0.008/0.018
		ARRET D'URGENCE	10	ZBY8130	0.008/0.018
		EMERGENCY STOP	10	ZBY8330	0.008/0.018
		NOT-HALT	10	ZBY8230	0.008/0.018
		PARADA DE EMERGENCIA	10	ZBY8430	0.008/0.018
		ARRESTO DE EMERGENZA	10	ZBY8630	0.008/0.018
Used for “Emergency switching off” function					
60/2.362	EN/IEC 60204-1	–	10	ZBY9101	0.004/0.009
		COUPURE D'URGENCE	10	ZBY9160	0.004/0.009
		EMERGENCY SWITCHING OFF	10	ZBY9360	0.004/0.009
		NOT-AUS	10	ZBY9260	0.004/0.009
		DESCONEXION DE EMERGENCIA	10	ZBY9460	0.004/0.009
		INTERRUZIONE DI EMERGENZA	10	ZBY9660	0.004/0.009
90/3.543	EN/IEC 60204-1	–	10	ZBY8101	0.008/0.018
		COUPURE D'URGENCE	10	ZBY8160	0.008/0.018
		EMERGENCY SWITCHING OFF	10	ZBY8360	0.008/0.018
		NOT-AUS	10	ZBY8260	0.008/0.018
		DESCONEXION DE EMERGENCIA	10	ZBY8460	0.008/0.018
		INTERRUZIONE DI EMERGENZA	10	ZBY8660	0.008/0.018

DF539642



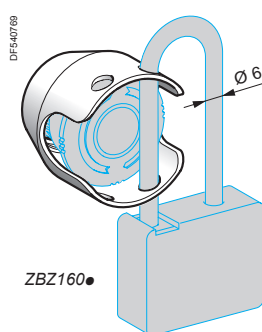
ZBY9160

(1) For complying with EN/ISO 13850 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.



Accessories for mushroom head pushbuttons

Description	Exclusive use with the following Ø 40 mm/1.575 in. trigger action pushbuttons	Color	Reference	Weight kg/lb
Padlocking kit (1) (2) For Emergency stop (3) and Emergency switching off function (4), (padlockable)	XB4BS844●, XB4BS9445, ZB4BS844, ZB4BS944●.	Yellow	ZBZ3605	0.045/0.099
Metal guards For Emergency stop (3) function Padlockable (2)	XB4BT8●, XB4BS8●, XB4BS9●, ZB4BT8●, ZB4BS8●, ZB4BS9●.	Chromium plated	ZBZ1600	0.046/0.101
		Black	ZBZ1602	0.046/0.101
		Red	ZBZ1604	0.046/0.101
		Blue	ZBZ1606	0.046/0.101



Description	Marking	Color	Reference	Weight kg/lb
Ø 60 mm/2.362 in. legend for padlocking device ZBZ3605 For Emergency stop function (3)	Without	Yellow	ZBY9140T	0.004/0.009
	ARRET D'URGENCE	Yellow	ZBY9130T	0.004/0.009
	EMERGENCY STOP	Yellow	ZBY9330T	0.004/0.009
	NOT-HALT	Yellow	ZBY9230T	0.004/0.009
Ø 60 mm/2.362 in. legend for padlocking device ZBZ3605 For Emergency switching off function (4)	Without	Yellow	ZBY9101T	0.004/0.009
	COUPURE D'URGENCE	Yellow	ZBY9160T	0.004/0.009
	EMERGENCY SWITCHING OFF	Yellow	ZBY9360T	0.004/0.009
	NOT-AUS	Yellow	ZBY9260T	0.004/0.009



Description	Marking	Color	Sold in lots of	Reference	Weight kg/lb
Ø 60 mm/2.362 in. legend for Emergency stop function	—	Yellow	5	ZBY9121	0.007/0.015
	EMERGENCY STOP	Yellow	5	ZBY9320	0.007/0.015
	ARRET D'URGENCE	Yellow	5	ZBY9120	0.007/0.015
	NOT HALT	Yellow	5	ZBY9220	0.007/0.015
	PARADA DE EMERGENCIA	Yellow	5	ZBY9420	0.007/0.015
	ARRESTO DI EMERGENZA	Yellow	5	ZBY9620	0.007/0.015



Other accessories

Description	For use with	Color	Reference	Weight kg/lb
Plastic guard	Selector switches and key switches	Black	ZBZ2102	0.005/0.011
Padlockable flaps	Pushbuttons	Black	ZB4BZ62	0.076/0.168
		Red	ZB4BZ64	0.076/0.168
		Yellow	ZB4BZ65	0.076/0.168
		Blue	ZB4BZ66	0.076/0.168



- (1) Standard circular legends are not compatible with this product. Use special legends **ZBY9●●●T**.
 (2) No isolation function is possible when this guard is fitted.
 (3) Ensures conformity with standards EN/IEC 60204-1 and EN/ISO 13850.
 (4) Ensures conformity with standard EN/IEC 60204-1.
 (5) Only when mounted on control stations. Use legends **ZBY9●●●T**.

Control units Ø 22

Harmony XB5, plastic

Emergency stop and Emergency switching off functions

Conforming to EN/IEC 60204-1, 60364-5-53,

EN/ISO 13850 and Machinery Directive 2006/42/EC

Emergency stop and switching off pushbuttons with trigger action and mechanical latching (1) (2)

Screw clamp terminal connections (Schneider Electric anti-loosening system)

Shape of head	Type of reset	Type of contact		Push		Reference	Weight kg/lb
		 N/O	 N/C	Ø mm/in.	Color		
Complete units							
	Push-pull	—	1	40/1.575	Red	XB5AT842 (ZB5AZ102 + ZB5AT84)	0.065/0.143
		1	1	40/1.575	Red	XB5AT845 (ZB5AZ105 + ZB5AT84)	0.076/0.168
	Turn to release	—	1	40/1.575	Red	XB5AS8442 (ZB5AZ102 + ZB5AS844)	0.060/0.132
		1	1	40/1.575	Red	XB5AS8445 (ZB5AZ105 + ZB5AS844)	0.072/0.159
		—	2	40/1.575	Red	XB5AS8444 (ZB5AZ104 + ZB5AS844)	0.072/0.159
	Key release (key n° 455)(3) 	—	1	40/1.575	Red	XB5AS9442 (ZB5AZ102 + ZB5AS944)	0.075/0.165
		1	1	40/1.575	Red	XB5AS9445 (ZB5AZ105 + ZB5AS944)	0.112/0.247

Heads only

	Push-pull	30/1.181	Red	ZB5AT844	0.049/0.108
		40/1.575	Red	ZB5AT84	0.049/0.108
		60/2.362	Red	ZB5AX84	0.067/0.148
	Turn to release	30/1.181	Red	ZB5AS834	0.042/0.002
		40/1.575	Red	ZB5AS844	0.046/0.002
	Key release (key n° 455) (2 keys included with head) (5) (3)	30/1.181	Red	ZB5AS934	0.068/0.003
		40/1.575	Red	ZB5AS944 (4)	0.071/0.003
		60/2.362	Red	ZB5AS964	0.092/0.004
	Key release (key n° 4A185) (5)	40/1.575	Red	ZB5AS944D	0.071/0.003

Illuminated Emergency stop and Emergency switching off functions, mechanical latching pushbuttons with mechanical state indicator (1)

For elevator inspection box applications

Shape of head	Type of reset	Push		Unit reference	Weight kg/lb
		Ø mm/in.	Color		
Heads only (6)					
	Push-pull (7) For Emergency stop and Emergency switching off function	40/1.575	Red	ZB5AT8643M	0.034/0.075

Illuminated Emergency switching off function only, mechanical latching pushbuttons (1)

Screw clamp terminal connections (Schneider Electric anti-loosening system)

Shape of head	Type of reset	Push		Reference	Weight kg/lb
		Ø mm/in.	Color		
	Turn to release	40/1.575	Red	ZB5AW743	0.022/0.049

(1) Recommended maximum number of contacts constituting the body (fixing collar and contact) associated with the head, see page 12 of Harmony XB5 catalog DIA5ED21213EN.

(2) It is recommended that a legend or yellow background is used.

(3) The symbol  indicates key withdrawal position(s).

(4) Other key numbers:

- key n° 421E: add suffix **12** to the reference.
- key n° 458A: add suffix **10** to the reference.
- key n° 520E: add suffix **14** to the reference.
- key n° 3131A: add suffix **20** to the reference.
- key n° 4A185: add suffix **D** to the reference.

Example: To order a Ø 40 mm/1.575 in. red mushroom head for a trigger action and mechanical latching Emergency stop pushbutton, with release by key n° 421E, the reference becomes: **ZB5AS94412**.

(5) For specific keys with other numbers, please consult our Customer Care Centre.

(6) Only for use with bodies comprising a light source with integral LED.

(7) Cannot be used with metal guards **ZBZ160**.

Control units Ø 22

Harmony XB5, plastic

General safe stop and circular yellow legends for
Emergency stop

General safe stops

General safe stops are used to stop the operation of a machine in a safe manner. These devices cannot be used as Emergency stop and must not be associated with a Yellow background. The general safe stop are made with Yellow bezel and Black head.

Shape of head	Type of reset	Push Ø (mm)/in.	Color	Reference	Weight kg/lb
	Push-pull	40/1.575	Black	ZB5AT82Y	0.050/0.110
	Turn to release 	40/1.575	Black	ZB5AS842Y	0.046/0.101
	Key release (key n° 455) 2 keys included with head) (2)	40/1.575	Black	ZB5AS942Y	0.071/0.157

Circular yellow legends for Emergency stop ⁽¹⁾

Description	Marking	Color	Sold in lots of	Reference	Weight kg/lb
Ø 60 mm/2.362 in. legend for Emergency stop function	-	Yellow	5	ZBY9121	0.007/0.015
	EMERGENCY STOP	Yellow	5	ZBY9320	0.007/0.015
	ARRET D'URGENCE	Yellow	5	ZBY9120	0.007/0.015
	NOT HALT	Yellow	5	ZBY9220	0.007/0.015
	PARADA DE EMERGENCIA	Yellow	5	ZBY9420	0.007/0.015
	ARRESTO DI EMERGENZA	Yellow	5	ZBY9620	0.007/0.015

Bellows for harsh environments (IP 69K) ⁽³⁾

Description	Material	For use with	Color	Sold in lots of	Unit reference	Weight kg/lb
For use in environments subject to humidity, dust, high pressure cleaning, etc.	Silicone	Emergency stop / Switching off function	Yellow	2	ZBZ28	0.009/0.020
		Other functions	Black	2	ZBZ58	0.009/0.020

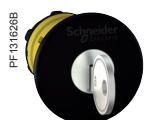
(1) Other legend models for Emergency stop and Emergency switching off function, see page 58 of catalog DIA5D2121212EN

(2) The symbol  indicates key withdrawal position(s).

(3) Not compatible with Ø 30 mm/1.181 in. pushbuttons.



ZB5AT82Y



ZB5AS942Y



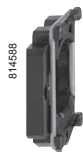
ZBY9121



ZBY9420



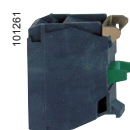
ZBZ28



ZB5AZ009



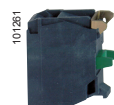
ZBE101



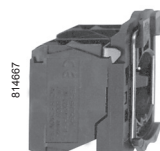
ZBE203



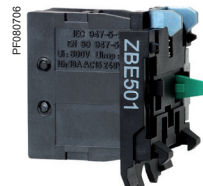
ZB5AZ101



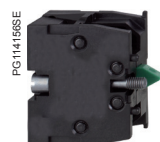
ZBE201



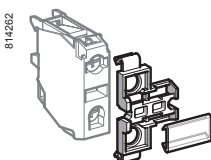
ZB5AZ107



ZBE501



ZB2BE101



ZBZ001

Body/fixing collar

For use with

Electrical block (contact or light)

Sold in
lots of

10

Unit
reference

ZB5AZ009

Weight
kg/lb

0.006/0.013

Contact functions (1)**Screw clamp terminal connections (Schneider Electric anti-loosening system)**

Application	Type of contact	Description			Sold in lots of	Unit reference	Weight kg/lb
			N/O	N/C			

Contacts for standard applications

Contacts for standard applications	Single	Contact blocks					
			1	—	5	ZBE101	0.011/0.024
			—	1	5	ZBE102	0.011/0.024
	Double		2	—	5	ZBE203	0.020/0.044
			—	2	5	ZBE204	0.020/0.044
			1	1	5	ZBE205	0.020/0.044
	Single with body/fixing collar		1	—	1	ZB5AZ101	0.021/0.046
			—	1	1	ZB5AZ102	0.021/0.046
			2	—	1	ZB5AZ103	0.030/0.066
			—	2	1	ZB5AZ104	0.030/0.066
			1	1	1	ZB5AZ105	0.030/0.066
			1	2	1	ZB5AZ141	0.040/0.088

Contacts for specific applications

Low power switching	Single	Standard		1	—	5	ZBE1016	0.012/0.026
				—	1	5	ZBE1026	0.012/0.026
		Dusty environment(2) (IP 5X, 50 µm dust)		1	—	5	ZBE1016P	0.012/0.026
				—	1	5	ZBE1026P	0.012/0.026
Staggered contacts	Single	Early make N/O		1	—	5	ZBE201	0.011/0.024
		Late break N/C		—	1	5	ZBE202	0.011/0.024
	Single with body/fixing collar	Overlapping N/O+N/C		1	1	5	ZB4BZ106	0.062/0.137
		Staggered N/O+N/O		2	—	5	ZB4BZ107	0.062/0.137
High power switching	Single	Standard (3)		1	—	1	ZBE501	0.020/0.044
				—	1	1	ZBE502	0.020/0.044
				2	—	1	ZBE503	0.032/0.071
				—	2	1	ZBE504	0.032/0.071
				1	1	1	ZBE505	0.032/0.071
Additional contact blocks for high power switching	Single	Standard (4)		1	—	1	ZB2BE101	0.020/0.044
				—	1	1	ZB2BE102	0.020/0.044

Clip-on legend holder, sheet of blank legends and labelling software

Description	Sold in lots of	Unit reference	Weight kg/lb
Clip-on legend-holder for electrical blocks with screw clamp terminal connections(5). For identification of an XB4B control or signaling unit	10	ZBZ001	0.001/0.002
Sheet of 50 blank legends for legend holder ZBZ001	10	ZBY001	0.023/0.051
"SIS Label" labelling software for legend design (ZBY001 legends)(for design of legends in English, French, German, Italian, Spanish)	1	XBY2U	0.100/0.220

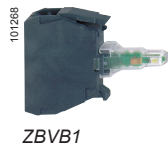
(1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows). Maximum number of contacts is specified on page 12 of Harmony XB5 catalog DIA5ED21213EN.

(2) It is not possible to fit an additional contact block on the back of these contact blocks.

(3) It is not possible to fit an additional contact block on the back of these contact blocks or to use these contacts with light blocks.

(4) To be fitted on the back of ZBE50● contacts.

(5) This legend holder is not compatible with high power switching contacts.



Light blocks					
Description	Supply voltage V	Color of light source	Sold in lots of	Unit reference	Weight kg/lb
Light blocks with screw clamp terminal connections (Schneider Electric anti-loosening system)					
Integral LED (to combine with heads for integral LED) Protected LED	~ 12 (50/60 Hz)	White	5	ZBVJ1	0.017/0.037
		Green	5	ZBVJ3	0.017/0.037
		Red	5	ZBVJ4	0.017/0.037
		Orange	5	ZBVJ5	0.017/0.037
		Blue	5	ZBVJ6	0.017/0.037
	~ 24 (50/60 Hz)	White	5	ZBVB1	0.017/0.037
		Green	5	ZBVB3	0.017/0.037
		Red	5	ZBVB4	0.017/0.037
		Orange	5	ZBVB5	0.017/0.037
		Blue	5	ZBVB6	0.017/0.037
	~ 24...120 (50/60 Hz)	White	5	ZVBVG1	0.017/0.037
		Green	5	ZVBVG3	0.017/0.037
		Red	5	ZVBVG4	0.017/0.037
		Orange	5	ZVBVG5	0.017/0.037
		Blue	5	ZVBVG6	0.017/0.037
	~ 110...120 (50/60 Hz)	White	5	ZBVG1	0.017/0.037
		Green	5	ZBVG3	0.017/0.037
		Red	5	ZBVG4	0.017/0.037
		Orange	5	ZBVG5	0.017/0.037
		Blue	5	ZBVG6	0.017/0.037
	~ 230...240 (50/60 Hz)	White	5	ZBVM1	0.017/0.037
		Green	5	ZBVM3	0.017/0.037
		Red	5	ZBVM4	0.017/0.037
		Orange	5	ZBVM5	0.017/0.037
		Blue	5	ZBVM6	0.017/0.037

Flashing light blocks with screw clamp terminal connections

(Schneider Electric anti-loosening system)

Integral LED (to combine with heads for integral LED) Protected LED	~ 24 (50/60 Hz)	White	5	ZBV18B1	0.017/0.037
		Green	5	ZBV18B3	0.017/0.037
		Red	5	ZBV18B4	0.017/0.037
		Orange	5	ZBV18B5	0.017/0.037
		Blue	5	ZBV18B6	0.017/0.037
	~ 110...120 (50/60 Hz)	White	5	ZBV18G1	0.017/0.037
		Green	5	ZBV18G3	0.017/0.037
		Red	5	ZBV18G4	0.017/0.037
		Orange	5	ZBV18G5	0.017/0.037
		Blue	5	ZBV18G6	0.017/0.037
	~ 230...240 (50/60 Hz)	White	5	ZBV18M1	0.017/0.037
		Green	5	ZBV18M3	0.017/0.037
		Red	5	ZBV18M4	0.017/0.037
		Orange	5	ZBV18M5	0.017/0.037
		Blue	5	ZBV18M6	0.017/0.037

For use with	Supply voltage V	Description	Reference	Weight kg/lb
Transformer blocks for 24 V light blocks (1)				
Light blocks with integral LED	~ 400 V - 50Hz	Transformer 400 V - 24 V ~	ZBV5B (2)	0.090/0.198
Blocks for "test light" function				
Light blocks	~ 12 and 24 ~ 24...120	Single module, 1 connecting wire	ZBZG156 (3)	0.010/0.022
Light blocks with integral LED	~ 48...230	Double module, with connecting wires	ZBZG156 (3)	0.010/0.022

LED suppressors

For use with	Supply voltage V	Level of protection	Reference	Weight kg/lb
Light blocks with integral LED fitted with screw clamp terminal connections	~ 120	25...120 VA	ZBZVG	0.010/0.022
	~ 230	30...230 VA	ZBZVM	0.010/0.022

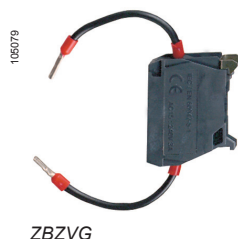
(1) To be used with 2 dummy contact blocks ZBE000.

(2) To order ~ 440...460 V - 60 Hz transformer blocks, please replace "5" in the reference by "8": ZBV5B becomes ZBV8B.

To order ~ 550...600 V - 60 Hz transformer blocks, please replace "5" by "9": ZBV5B becomes ZBV9B.

(3) Block for use with ~ light blocks with integral LED types ZBVJ●, ZBVB●, ZVBVG● or with direct supply light block for BA 9s bulb, ZBV6.

(4) Block for use ~ light blocks integral LED types ZBVG●, ZBVM●, see connection on Schneider Electric website, Harmony XB5.



814588



ZB5AZ009

PF107777



ZBE1015

PF107781



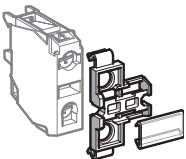
ZB5AZ1015

PF080711



ZBVB35

814262



ZBZ001

540548



XBY2U

Body/fixing collar

For use with

Electrical block (contact or light)

Sold in
lots of

10

Unit reference

ZB5AZ009

Weight
kg/lb

0.006/0.013

Contact functions Spring clamp terminal connections (1)

Description	Type of contact			Sold in lots of	Unit reference	Weight kg/lb
Contacts for standard applications						
Contact blocks	Single	1	—	4	ZBE1015	0.011/0.024
		—	1	4	ZBE1025	0.011/0.024
	Single with body/fixing collar	1	—	1	ZB5AZ1015	0.021/0.046
		—	1	1	ZB5AZ1025	0.021/0.046
		2	—	1	ZB5AZ1035	0.030/0.066
		—	2	1	ZB5AZ1045	0.030/0.066
		1	1	1	ZB5AZ1055	0.030/0.066

Light blocks Spring clamp terminal connections (1)

Description	Supply voltage V	Color of light source	Sold in lots of	Unit reference	Weight kg/lb
Integral LED (to combine with heads for integral LED)	~ 12 (50/60 Hz)	White	4	ZBVJ15	0.016/0.035
		Green	4	ZBVJ35	0.016/0.035
		Red	4	ZBVJ45	0.016/0.035
		Orange	4	ZBVJ55	0.016/0.035
		Blue	4	ZBVJ65	0.016/0.035
	~ 24 (50/60 Hz)	White	4	ZBVB15	0.016/0.035
		Green	4	ZBVB35	0.016/0.035
		Red	4	ZBVB45	0.016/0.035
		Orange	4	ZBVB55	0.016/0.035
		Blue	4	ZBVB65	0.016/0.035
	~ 110...120 (50/60 Hz)	White	4	ZBVG15	0.016/0.035
		Green	4	ZBVG35	0.016/0.035
		Red	4	ZBVG45	0.016/0.035
		Orange	4	ZBVG55	0.016/0.035
		Blue	4	ZBVG65	0.016/0.035
	~ 230...240 (50/60 Hz)	White	4	ZBVM15	0.016/0.035
		Green	4	ZBVM35	0.016/0.035
		Red	4	ZBVM45	0.016/0.035
		Orange	4	ZBVM55	0.016/0.035
		Blue	4	ZBVM65	0.016/0.035

Protected
LED**Sheet of 50 blank legends**

For use with

Legend holder ZBZ001

Sold in
lots of

10

Unit reference

ZBY001

Weight
kg/lb

0.023/0.051

"SIS Label" labelling software (for legends ZBY001)

For legend design

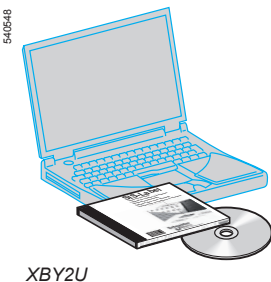
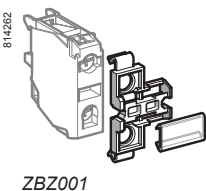
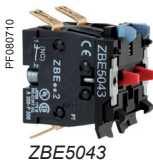
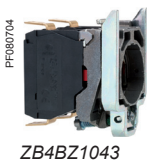
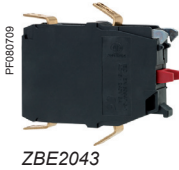
for English, French, German, Italian, Spanish

10

XBY2U

0.100/0.220

(1) It is not possible to fit an additional block on the back of these contact or light blocks.

**Contact functions ⁽¹⁾****Faston connectors (Ø 6.35 or 2 x 2.8 mm/0.250 or 2 x 0.110 in.)****Contacts for standard applications**

Description	Type of contact			Sold in lots of	Unit reference	Weight kg/lb
Contact blocks	Single	1	—	5	ZBE1013	0.011/0.024
		—	1	5	ZBE1023	0.011/0.024
	Double	2	—	5	ZBE2033	0.020/0.044
		—	2	5	ZBE2043	0.020/0.044
	Single with body/fixing collar	1	1	5	ZBE2053	0.020/0.044
		1	—	1	ZB5AZ1013 (2)	0.021/0.046
		—	1	1	ZB5AZ1023 (2)	0.021/0.046
		2	—	1	ZB5AZ1033	0.030/0.066
		—	2	1	ZB5AZ1043	0.030/0.066
		1	1	1	ZB5AZ1053	0.030/0.066

Contacts for specific applications

Application	Type of contact	Description			Sold in lots of	Unit reference	Weight kg/lb
Low power switching	Single	Standard	1	—	5	ZBE10163 (2)	0.012/0.026
			—	1	5	ZBE10263 (2)	0.012/0.026
		Dusty environments (3) (IP 5X, 50 µm dust)	1	—	5	ZBE1016P3 (2)	0.012/0.026
			—	1	5	ZBE1026P3 (2)	0.012/0.026
Staggered contacts	Single	Early make	1	—	5	ZBE2013 (2)	0.011/0.024
		Late break	—	1	5	ZBE2023 (2)	0.011/0.024
		Standard (4)	1	—	1	ZBE5013	0.021/0.046
High power switching	Single	Standard (4)	—	1	1	ZBE5023	0.021/0.046
			2	—	1	ZBE5033	0.033/0.073
			—	2	1	ZBE5043	0.033/0.073
			1	1	1	ZBE5053	0.033/0.073

Clip-on legend holder for electrical blocks with screw clamp terminal connections ⁽⁵⁾

For use with	Sold in lots of	Unit reference	Weight kg/lb
Identification of an XB5A control or signaling unit	10	ZBZ001	0.001/0.002

Sheet of 50 blank legends

Legend holder ZBZ001	10	ZBY001	0.023/0.051
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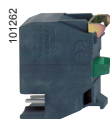
"SIS Label" labelling software (for legends ZBY001)

For legend design for English, French, German, Italian, Spanish	1	XBY2U	0.100/0.220
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- (1) The contact blocks enable variable composition of body/contact assemblies. Maximum number of rows possible: 3. Either 3 rows of 3 single contacts or 1 row of 3 double contacts + 1 row of 3 single contacts (double contacts occupy the first 2 rows).
- (2) To order products with screw clamp terminal connections for lugs, replace the 3 at the end of the reference with a 9. Example: ZBE1013 becomes ZBE1019.
- (3) It is not possible to fit an additional contact block on the back of these contact blocks.
- (4) It is not possible to use these contacts with light blocks.
- (5) This legend holder is not compatible with high power switching contacts.



ZB5AZ009



ZBE1014



ZBE1024



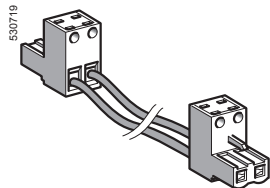
ZB5AZ1014



ZB5AZ1024



ZBVB14



APE1C2250

Body/fixing collar

For use with	Sold in lots of	Unit reference	Weight kg/lb
Electrical block (contact or light)	10	ZB5AZ009	0.006/0.013

Contact functions Plug-in connector (1)

Description	Type of contact			Sold in lots of	Unit reference	Weight kg/lb
		N/O	N/C			
Contacts for standard applications						
Contact blocks	Single	1	—	5	ZBE1014	0.011/0.024
		—	1	5	ZBE1024	0.011/0.024
	Single with body/fixing collar	1	—	1	ZB5AZ1014	0.018/0.040
		—	1	1	ZB5AZ1024	0.018/0.040
		2	—	1	ZB5AZ1034	0.026/0.057
		—	2	1	ZB5AZ1044	0.026/0.057
		1	1	1	ZB5AZ1054	0.026/0.057
		1	2	1	ZB5AZ1414	0.036/0.079

Light blocks Plug-in connector

Description	Supply voltage V	Color of light source	Sold in lots of	Unit reference	Weight kg/lb
Integral LED (to combine with heads for integral LED)	~ 24 (50/60 Hz)	White	5	ZBVB14	0.016/0.035
		Green	5	ZBVB34	0.016/0.035
		Red	5	ZBVB44	0.016/0.035
		Orange	5	ZBVB54	0.016/0.035
		Blue	5	ZBVB64	0.016/0.035
	~ 110...120 (50/60 Hz)	White	5	ZBVG14	0.016/0.035
		Green	5	ZBVG34	0.016/0.035
		Red	5	ZBVG44	0.016/0.035
		Orange	5	ZBVG54	0.016/0.035
		Blue	5	ZBVG64	0.016/0.035
	~ 230...240 (50/60 Hz)	White	5	ZBVM14	0.016/0.035
		Green	5	ZBVM34	0.016/0.035
		Red	5	ZBVM44	0.016/0.035
		Orange	5	ZBVM54	0.016/0.035
		Blue	5	ZBVM64	0.016/0.035

Connecting cables and connector

Description	Number of connectors	Wire c. s. a. mm²/AWG	Length Ø mm/in.	Sold in lots of	Unit reference	Weight kg/lb
Cables with connectors 2-pin, Ø 5.08 mm/0.200 in. pitch	1	0.75/19	500/ 19.685	8	APE1C2150	0.120/0.265
	2	0.75/19	500/ 19.685	8	APE1C2250	0.180/0.397
Spring terminal connector 2-pin, Ø 5.08 mm/0.200 in. pitch	—	0.2 to 0.5/ — 25 to 14		10	APE1PRE21	0.003/0.007

(1) It is not possible to fit an additional contact block on the back of these contact blocks.

PF514403



ZBY9130

DF539842

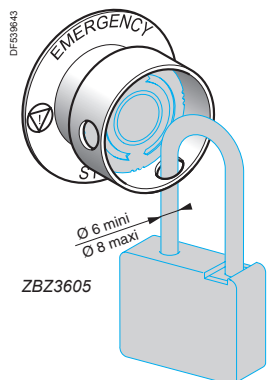


ZBY9160

Circular yellow legends for mushroom head pushbuttons

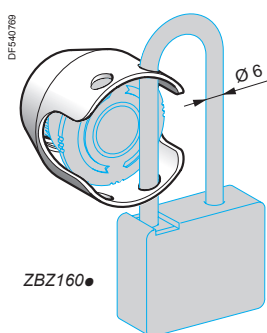
Diameter mm/in.	Conforming to standards	Marking on Yellow background	Sold in lots of	Unit Reference	Weight kg/lb
Used for “Emergency stop” function (1)					
90/3.543	EN/IEC 60204-1 and EN/ISO 13850	–	10	ZBY8140	0.008/0.018
		ARRET D'URGENCE	10	ZBY8130	0.008/0.018
		EMERGENCY STOP	10	ZBY8330	0.008/0.018
		NOT-HALT	10	ZBY8230	0.008/0.018
		PARADA DE EMERGENCIA	10	ZBY8430	0.008/0.018
		ARRESTO DE EMERGENZA	10	ZBY8630	0.008/0.018
Used for “Emergency switching off” function					
60/2.362	EN/IEC 60204-1	–	10	ZBY9101	0.004/0.009
		COUPURE D'URGENCE	10	ZBY9160	0.004/0.009
		EMERGENCY SWITCHING OFF	10	ZBY9360	0.004/0.009
		NOT-AUS	10	ZBY9260	0.004/0.009
		DESCONEXION DE EMERGENCIA	10	ZBY9460	0.004/0.009
		INTERRUZIONE DI EMERGENZA	10	ZBY9660	0.004/0.009
90/3.543	EN/IEC 60204-1	–	10	ZBY8101	0.008/0.018
		COUPURE D'URGENCE	10	ZBY8160	0.008/0.018
		EMERGENCY SWITCHING OFF	10	ZBY8360	0.008/0.018
		NOT-AUS	10	ZBY8260	0.008/0.018
		DESCONEXION DE EMERGENCIA	10	ZBY8460	0.008/0.018
		INTERRUZIONE DI EMERGENZA	10	ZBY8660	0.008/0.018

(1) For complying with EN/ISO 13850 standard, paragraph 4.4.6., Emergency Stop function logo  has been added.

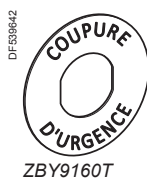


Accessories for mushroom head pushbuttons

Description	Exclusive use with the following Ø 40 mm/1.575 in. trigger action pushbuttons	Color	Reference	Weight kg/lb
Padlocking kit (1) (2) For Emergency stop (3) and Emergency switching off function (4), (padlockable)	XB5AS844●, XB5AS944●, ZB5AS844, ZB5AS944●	Yellow	ZBZ3605	0.045/0.099
Metal guards For Emergency stop (3) function Padlockable (2)	XB5AT8●, XB5AS8●, XB5AS9●, ZB5AT8●, ZB5AS8●, ZB5AS9●	Chromium plated	ZBZ1600	0.046/0.101
		Black	ZBZ1602	0.046/0.101
		Red	ZBZ1604	0.046/0.101
		Blue	ZBZ1606	0.046/0.101



Description	Marking	Color	Reference	Weight kg/lb
Ø 60 mm/2.362 in. legend for padlocking device ZBZ3605 For Emergency stop function (3)	Without	Yellow	ZBY9140T	0.004/0.009
	ARRET D'URGENCE	Yellow	ZBY9130T	0.004/0.009
	EMERGENCY STOP	Yellow	ZBY9330T	0.004/0.009
	NOT-HALT	Yellow	ZBY9230T	0.004/0.009
Ø 60 mm/2.362 in. legend for padlocking device ZBZ3605 For Emergency switching off function (4)	Without	Yellow	ZBY9101T	0.004/0.009
	COUPURE D'URGENCE	Yellow	ZBY9160T	0.004/0.009
	EMERGENCY SWITCHING OFF	Yellow	ZBY9360T	0.004/0.009
	NOT-AUS	Yellow	ZBY9260T	0.004/0.009

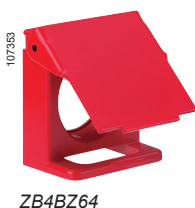


Description	Marking	Color	Sold in lots of	Reference	Weight kg/lb
Ø 60 mm/2.362 in. legend for Emergency stop function	-	Yellow	5	ZBY9121	0.007/0.015
	EMERGENCY STOP	Yellow	5	ZBY9320	0.007/0.015
	ARRET D'URGENCE	Yellow	5	ZBY9120	0.007/0.015
	NOT HALT	Yellow	5	ZBY9220	0.007/0.015
	PARADA DE EMERGENCIA	Yellow	5	ZBY9420	0.007/0.015
	ARRESTO DI EMERGENZA	Yellow	5	ZBY9620	0.007/0.015



Other accessories

Description	For use with	Color	Reference	Weight kg/lb
Plastic guard	Selector switches and key switches	Black	ZBZ2102	0.005/0.011
Padlockable flaps	Pushbuttons	Black	ZB4BZ62	0.076/0.168
		Red	ZB4BZ64	0.076/0.168
		Yellow	ZB4BZ65	0.076/0.168
		Blue	ZB4BZ66	0.076/0.168



(1) Standard circular legends are not compatible with this product. Use special legends **ZBY9●●●T**.

(2) No isolation function is possible when this guard is fitted.

(3) Ensures conformity with standards EN/IEC 60204-1 and EN/ISO 13850.

(4) Ensures conformity with standard EN/IEC 60204-1.

(5) Only when mounted on control stations. Use legends **ZBY9●●●T**.

PF100411



XB7NS842

Emergency stop and emergency switching off function with mechanical latching

Shape of head	Type of push	Standards			Sold in lots of	Unit reference	Weight kg/lb
Contacts for standard applications							
	Turn to release	EN/IEC 60204-1, EN/ISO 13850, EN/IEC 60947-5-5, Machinery directive 2006/42/EC and UL	–	1	10	XB7NS8442	0.045/0.099
			1	1	10	XB7NS8445	0.045/0.099
			–	2	10	XB7NS8444	0.045/0.099
	Push-pull		–	1	10	XB7NT842	0.040/0.088
			1	1	10	XB7NT845	0.040/0.088
			–	2	10	XB7NT844	0.040/0.088
	Key release (n° 455)		–	2	10	XB7NS9444	0.072/0.159
			–	1	10	XB7NS9445	0.072/0.159

Circular legends, yellow, for mushroom head pushbuttons

Description	Marking on yellow background	Sold in lots of	Unit reference	Weight kg/lb
Used for "Emergency stop" function (1)				
Ø 60 mm/2.362 in. circular legend compatible with Emergency stop	–	5	ZBY9121	0.007/0.015
	ARRET D'URGENCE	5	ZBY9320	0.007/0.015
	EMERGENCY STOP	5	ZBY9120	0.007/0.015
	NOT-HALT	5	ZBY9220	0.007/0.015
	PARADA DE EMERGENCIA	5	ZBY9420	0.007/0.015
	ARRESTO DE EMERGENZA	5	ZBY9620	0.007/0.015
Ø 90 mm/3.543 in. circular legend compatible with Emergency stop	–	10	ZBY8140	0.008/0.018
	ARRET D'URGENCE	10	ZBY8130	0.008/0.018
	EMERGENCY STOP	10	ZBY8330	0.008/0.018
	NOT-HALT	10	ZBY8230	0.008/0.018
	PARADA DE EMERGENCIA	10	ZBY8430	0.008/0.018
	ARRESTO DE EMERGENZA	10	ZBY8630	0.008/0.018

PF514403



ZBY9130

(1) For compliance with standard EN/ISO 13850, paragraph 4.4.6, the Emergency stop logo has been added.

Control units Ø 30

Harmony 9001K & SK range

Emergency stop pushbuttons

Presentation

The Ø 30 mm/1.181 in. Harmony 9001 range of Emergency stop and Emergency switching off functions is robust and meet a great number of applications in heavy industries such as: petrochemical, metallurgy, mining, oil and gas, wastewater treatment, and automobile manufacturing.

- Two family of products are available :
 - The Harmony 9001K control and signalling units offering good robustness with a chromium plated metal bezel
 - The Harmony 9001SK control and signalling units, with a double insulated bezel designed for applications requiring a high resistance to corrosion
- This range includes:
 - Emergency stop trigger action and mechanical latching pushbuttons (conforming to standards EN/IEC 60204-1 and EN/ISO 13850)
 - Choice of accessories and spare parts common to both families,
 - Choice of aluminium or plastic legend plates.

Installation

- Harmony 9001 products are both simple and quick to install:
 - Block setting by single installer with a single screw contact block,
 - Automatic self-grounding operators without additional wiring,
 - Easy function identification thanks to the coloured contact blocks,
 - Clear window for status of contact operation and troubleshooting,
 - Side-by-side and/or stacked mounting of contact blocks to minimize enclosure space requirements.
- Connection is made through screw clamp terminals (cross headed slotted screw)

Environment

The performance features of these range meet the most demanding international standards and approvals:

- Degrees of protection:

Products are originally oil-tight, dust-tight and water-tight. No boot needs to be added.

 - For 9001K chromium plated metal bezel: IP 66 according to IEC 61140 and NEMA type 1, 2, 3, 3R, 4, 12 and 13
 - For 9001SK plastic bezel: IP 66 according to IEC 61140 and NEMA type 1, 2, 3, 3R, 4, 4X, 12 et 13.
- International standards:
 - EN/IEC 60204/1 et EN/ISO 13850 for Emergency stop mushroom head pushbuttons (if used with the Emergency stop legend plates)
- Product certifications:
 - International certifications: UL, CSA, NOM, RoHS, GOST

Control units Ø 30

Harmony 9001K & SK range

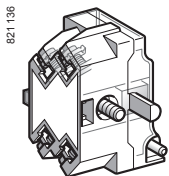
Emergency stop pushbuttons, contact blocks, and circular yellow legends



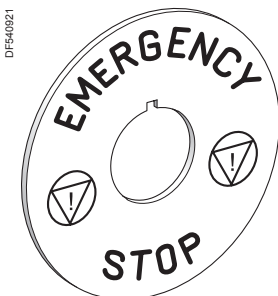
9001KR16H13



9001SKR16H13



9001KA1



9001 KN9330

Emergency stop mushroom head pushbutton (with chromium plated metal bezel)

Shape of head	Type of push	Head color & material	Type of contacts			Reference	Weight kg/lb
			N/O	N/C	C/O		
Circular, Ø 40 mm / 1.575 in.	2 positions (1) Turn to Release Trigger action	Red, plastic	1	1	–	9001KR16H13	0.141/0.311
			2	2	–	9001KR16H2	0.141/0.311
			–	–	–	9001KR16 (2)	0.141/0.311



Emergency stop mushroom head pushbutton (with double insulated bezel)

Circular, Ø 40 mm / 1.575 in.	2 positions Turn to release Trigger action (1)	1	1	–	9001SKR16H13	0.141/0.311
		2	2	–	9001SKR16H2	0.141/0.311
		–	–	–	9001SKR16 (2)	0.141/0.311



Contact blocks with protected terminals

Description	Type of contacts			Reference	Weight kg/lb
	N/O	N/C	C/O		
Standard contact blocks	–	–	1	9001KA1 (3)	0.027/0.060
	1	–	–	9001KA2 (3)	0.023/0.051
	–	1	–	9001KA3 (3)	0.023/0.051
Late break contact blocks	–	–	1	9001KA4	0.027/0.060
	–	1	–	9001KA5	0.023/0.051
Early break contact blocks	1	–	–	9001KA6	0.023/0.051
Logic reed contact blocks Hermetically sealed	1	–	–	9001KA41 (3)	0.045/0.099
	–	1	–	9001KA42 (3)	0.045/0.099
	–	–	1	9001KA43 (3)	0.045/0.099
Power reed contact blocks Hermetically sealed	1	–	1	9001KA51 (3)	0.045/0.099
	–	1	–	9001KA52 (3)	0.045/0.099
	–	–	1	9001KA53 (3)	0.045/0.099

Emergency stop legend plate (plastic)

Description	Legend plate colour	Marking	Reference	Weight kg/lb
Ø 60 mm / 2.362 in.	Yellow	EMERGENCY STOP	9001KN9330	0.005/0.011
Ø 90 mm / 3.543 in.	Yellow	EMERGENCY STOP	9001KN8330	0.005/0.011

(1) Emergency stop device, conforms to EN/IEC 60204-1 and EN/ISO 13850 when used with Emergency Stop legend plate 9001KN8330 or 9001KN9330.

(2) Supplied without contact block. Contact blocks to be ordered separately.

(3) It is possible to mount up to 3 levels of contact blocks (maximum of 6 contacts blocks) on 9001 K and 9001 SK references. For additional contact blocks to be installed by the customer, please refer to Schneider Electric website, Harmony 9001K and Harmony 9001SK.

Operator dialogue terminals Magelis™ XBTGH Advanced hand-held panel Emergency stop function



Magelis XBTGH with emergency stop

Presentation

The Magelis XBTGH Advanced hand-held panel offer a portable touch screen terminal with 5.7" color screen and safety devices (Emergency stop, enabling grip switch, etc.)

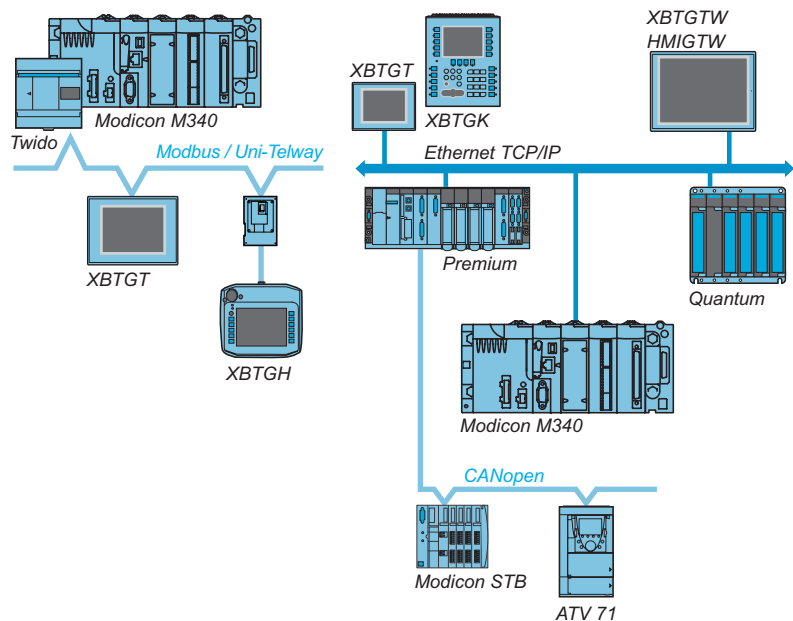
The emergency stop button with 2 NC safety contacts and 1 NO auxiliary contact is used to stop the machine during emergency.

Operation

These terminals are available in multifunction levels (5.7") which features new information and communication technologies:

- High level of communication (embedded Ethernet, multi-link, Web server and FTP)
- External storage of data (Compact Flash memory card and USB memory stick) for storing production data and backing up applications
- Multimedia data with integrated image and sound management (digital or analog camera)
- Management of peripherals: Printers, bar code readers, loudspeakers, etc.

Communication



Magelis Standard Advanced panel communicate with PLCs via one or two integrated serial links, using communication protocols:

- Schneider Electric (Uni-TE, Modbus)
- Third-party: Mitsubishi Electric, Omron, Allen-Bradley and Siemens

Operator dialogue terminals

Magelis XBTGH Advanced hand-held panel

Emergency stop function



XBTGH2460



XBTZGJBOX



XBTZGHL●●

XBTGH Advanced hand-held panel ⁽¹⁾

Type of front panel	Number of ports	Application memory capacity	Compact Flash memory	Video input	Number of Ethernet ports	Reference	Weight kg/lb
Multifunction, 5.7" screen							
TFT color mode screen and Emergency stop button	1 COM1 1 USB	32 MB	Yes	No	1	XBTGH2460 (2)	–

Connection components

Description	Usage	Length m/ft.	Reference	Weight kg/lb
Junction box for XBTGH	Specifically for the XBTGH terminal, it enables: ■ 24 V $\overline{\text{V}}$ power supply to XBTGH terminal ■ Connection of various safety inputs/outputs ■ Connection on multi-protocol serial link (9-way SUB-D) or Ethernet TCP/IP (RJ45) Can be mounted on 35 mm rail	–	XBTZGJBOX (2) (3)	–
Interface cable for XBTGH	For connecting XBTGH terminal to junction box XBTZGJBOX	3/9.84	XBTZGHL3	–
		5/16.40	XBTZGHL5	–
		10/32.80	XBTZGHL10	–
		20/65.62	XBTZGHL20 (4)	–

(1)) For more information on Magelis XBTGH functions, description and connection accessories, please refer to Magelis XBTGH Advanced hand-held panel catalog in our website www.schneider-electric.com.

(2) The XBTGH terminal is connected to junction box XBTZGJBOX using cable XBTZGHL●●, to be ordered separately.

(3) A junction box is required at each XBTGH terminal connection point.

(4) With this cable, the following limitations apply to the junction box:

- no RS 232C serial link
- an isolation box cannot be used
- 24 V $\overline{\text{V}}$ supply voltage tolerance of approximately 10%

9		XBY2U	5	ZB5AS944D	12	ZBE101	5	ZBV5B	6
9001KA1	3		7	ZB5AS964	12		14		15
9001KA2	3		8	ZB5AT82Y	13	ZBE102	5	ZBV18B1	6
9001KA3	3		14	ZB5AT84	12		14		15
9001KA4	3		16	ZB5AT844	12	ZBE201	5	ZBV18B3	6
9001KA5	3		17				14		15
9001KA6	3	Z		ZB5AT8643M	12	ZBE202	5	ZBV18B4	6
9001KA41	3	ZB2BE101	5	ZB5AW743	12		14		15
9001KA42	3		14	ZB5AX84	12	ZBE203	5	ZBV18B5	6
9001KA43	3	ZB2BE102	5	ZB5AZ009	14		14		15
9001KA51	3		14		16	ZBE204	5	ZBV18B6	6
9001KA52	3	ZB4BS834	3		18		14		15
9001KA53	3	ZB4BS844	3	ZB5AZ101	14	ZBE205	5	ZBV18G1	6
9001KN8330	3	ZB4BS864	3	ZB5AZ102	14		14		15
9001KN9330	3	ZB4BS934	3	ZB5AZ103	14	ZBE501	5	ZBV18G3	6
9001KR16	3	ZB4BS944	3	ZB5AZ104	14		14		15
9001KR16H2	3	ZB4BS964	3	ZB5AZ105	14	ZBE502	5	ZBV18G4	6
9001KR16H13	3	ZB4BT84	3	ZB5AZ106	14		14		15
9001SKR16	3	ZB4BT844	3	ZB5AZ141	14	ZBE503	5	ZBV18G5	6
9001SKR16H2	3	ZB4BVG35	7	ZB5AZ1013	17		14		15
9001SKR16H13	3	ZB4BVG45	7	ZB5AZ1014	18	ZBE504	5	ZBV18G6	6
		ZB4BW643	3	ZB5AZ1015	16		14		15
		ZB4BX84	3	ZB5AZ1023	17	ZBE505	5	ZBV18M1	6
		ZB4BZ009	5	ZB5AZ1024	18		14		15
A			7	ZB5AZ1025	16	ZBE1013	8	ZBV18M3	6
APE1C2150	9		9	ZB5AZ1033	17		17		15
	18	ZB4BZ62	11	ZB5AZ1034	18	ZBE1014	9	ZBV18M4	6
APE1C2250	9		20	ZB5AZ1035	16		18		15
	18	ZB4BZ64	11	ZB5AZ1043	17	ZBE1015	7	ZBV18M5	6
APE1PRE21	9		20	ZB5AZ1044	18		16		15
	18	ZB4BZ65	11	ZB5AZ1045	16	ZBE1016	5	ZBV18M6	6
			20	ZB5AZ1053	17		14		15
X		ZB4BZ66	11	ZB5AZ1054	18	ZBE1016P	5	ZBVB1	6
			20	ZB5AZ1055	16		14		15
XB4BS8442	3	ZB4BZ101	5	ZB5AZ1056	16	ZBE1016P3	8	ZBVB3	6
XB4BS8444	3	ZB4BZ102	5	ZB5AZ1414	18		17		15
XB4BS8445	3	ZB4BZ103	5	ZB6AS834	4	ZBE1023	8	ZBVB4	6
XB4BS9445	3	ZB4BZ104	5	ZB6AS934	4		17		15
XB4BS84441	3	ZB4BZ105	5	ZB6Y002	5	ZBE1024	9	ZBVB5	6
XB4BT842	3	ZB4BZ106	5	ZB6Y003	5		18		15
XB4BT845	3	ZB4BZ107	5	ZB6Y004	5	ZBE1025	7	ZBVB6	6
XB5AS8442	12	ZB4BZ108	14	ZB6Y005	5		16		15
XB5AS8444	12	ZB4BZ109	5	ZB6Y006	5	ZBE1026	5	ZBVB14	9
XB5AS8445	12	ZB4BZ110	14	ZB6Y007	5		14		18
XB5AS9442	12	ZB4BZ111	5	ZB6Y008	5	ZBE1026P	5	ZBVB15	7
XB5AS9445	12	ZB4BZ1013	8	ZB6Y009	5		14		16
XB5AT842	12	ZB4BZ1014	9	ZB6Y006A	5	ZBE1026P3	8	ZBVB34	9
XB5AT845	12	ZB4BZ1015	7	ZB6Y010	5		17		18
XB6AS8349B	4	ZB4BZ1016	5	ZB6Y011	5	ZBE2013	8	ZBVB35	7
XB6AS9349B	4	ZB4BZ1023	8	ZB6Y012	5		17		16
XB6ETI522P	3	ZB4BZ1024	9	ZB6Y013	5	ZBE2023	8	ZBVB44	9
XB6ETI523P	3	ZB4BZ1025	7	ZB6Y014	5		17		18
XB6ETI523P	3	ZB4BZ1033	8	ZB6Y016	5	ZBE2033	8	ZBVB45	7
XB6ETN521P	3	ZB4BZ1034	9	ZB6Y018	5		17		16
XB7NS8442	21	ZB4BZ1035	7	ZB6Y019	5	ZBE2043	8	ZBVB54	9
XB7NS8444	21	ZB4BZ1043	8	ZB6Y56	3		17		18
XB7NS8445	21	ZB4BZ1044	9	ZB6Y905	5	ZBE2053	8	ZBVB55	7
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XB7NS9445	21	ZB4BZ1053	8	ZB6Y901	4	ZBE5013	8	ZBVB64	9
XB7NT842	21	ZB4BZ1054	9	ZB6Y7130	4		17		18
XB7NT844	21	ZB4BZ1055	7	ZB6Y7230	4	ZBE5023	8	ZBVB65	7
XB7NT845	21	ZB4BZ1414	9	ZB6Y7330	4		17		16
XBTGH2460	3	ZB5AS834	12	ZB6Y7430	4	ZBE5033	8	ZBVBG1	6
XBTZGHL3	3	ZB5AS842Y	13	ZB6Y7630	4		17		15
XBTZGHL5	3	ZB5AS844	12	ZB6Z1B	5	ZBE5043	8	ZBVBG3	6
XBTZGHL10	3	ZB5AS934	12	ZB6Z2B	5		17		15
XBTZGHL20	3	ZB5AS942Y	13	ZB6Z3B	5	ZBE5053	8	ZBVBG4	6
XBTZGJBOX	3	ZB5AS944	12	ZB6Z4B	5		17		15
				ZB6Z5B	5	ZBE10163	8	ZBVBG5	6
							17		15
						ZBE10263	8	ZBVBG6	6
							17		15

ZBVG1	6 15	ZBVM54	9 18	ZBY9220	4 11 13 20 21
ZBVG3	6 15	ZBVM55	7 16		
ZBVG4	6 15	ZBVM64	9 18	ZBY9230T	11 20
ZBVG5	6 15	ZBVM65	7 16	ZBY9260	10 19
ZBVG6	6 15	ZBY001	5 7 8	ZBY9260T	11 20
ZBVG14	9 18		14 16 17	ZBY9320	4 11 13 20 21
ZBVG15	7 16	ZBY8101	10 19		
ZBVG34	9 18	ZBY8130	10 19 21 10	ZBY9330T	11 20
ZBVG35	7 16			ZBY9360	10 19
ZBVG44	9 18	ZBY8140	19 21	ZBY9360T	11 20
ZBVG45	7 16	ZBY8160	10 19	ZBY9420	4 11 13 20 21
ZBVG54	9 18	ZBY8230	10 19 21		
ZBVG55	7 16	ZBY8260	10 19	ZBY9460	10 19
ZBVG64	9 18	ZBY8330	10 19 21	ZBY9620	4 11 13 20 21
ZBVG65	7 16				
ZBVJ1	6 15	ZBY8360	10 19	ZBY9660	10 19
ZBVJ3	6 15	ZBY8430	10 19 21	ZBZ001	5 8 14 17
ZBVJ4	6 15	ZBY8460	10 19		
ZBVJ5	6 15	ZBY8630	10 19 21	ZBZ28	4 13
ZBVJ6	6 15			ZBZ58	4 13
ZBVJ15	7 16	ZBY8660	10 19	ZBZ1600	11 20
ZBVJ35	7 16	ZBY9101	10 19	ZBZ1602	11 20
ZBVJ45	7 16	ZBY9101T	11 20	ZBZ1604	11 20
ZBVJ55	7 16	ZBY9120	4 11 13 20 21	ZBZ1606	11 20
ZBVJ65	7 16			ZBZ2102	11 20
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ZBVM4	6 15	ZBY91215	4 11 13 20 21	ZBZVG	6 15
ZBVM5	6 15			ZBZVM	6 15
ZBVM6	6 15				
ZBVM14	9 18	ZBY9130T	11 20		
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ZBVM45	7 16				

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