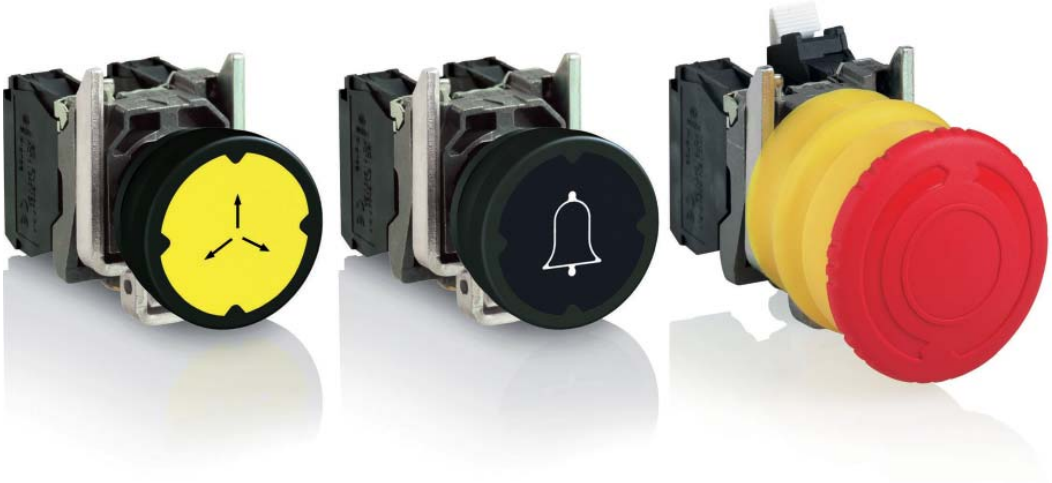
Harmony XB4/XB5 control and signalling units for harsh environments

Catalogue

June 2011



Schneider Electric

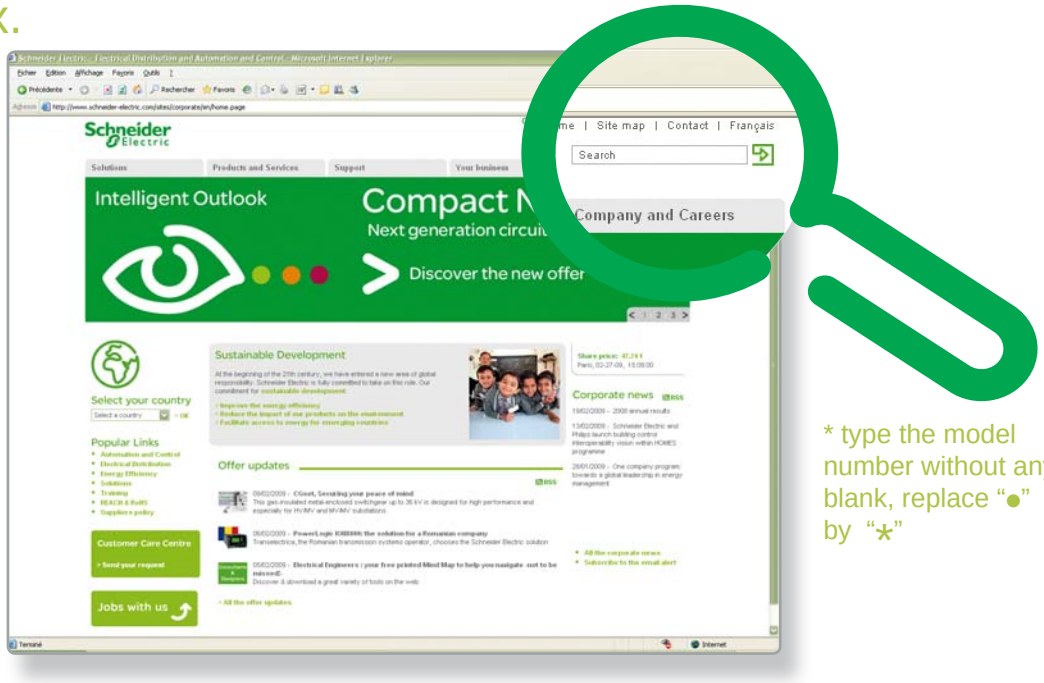
All technical information about products listed in this catalogue are now available on:

www.schneider-electric.com

Browse the “product data sheet” to check out :

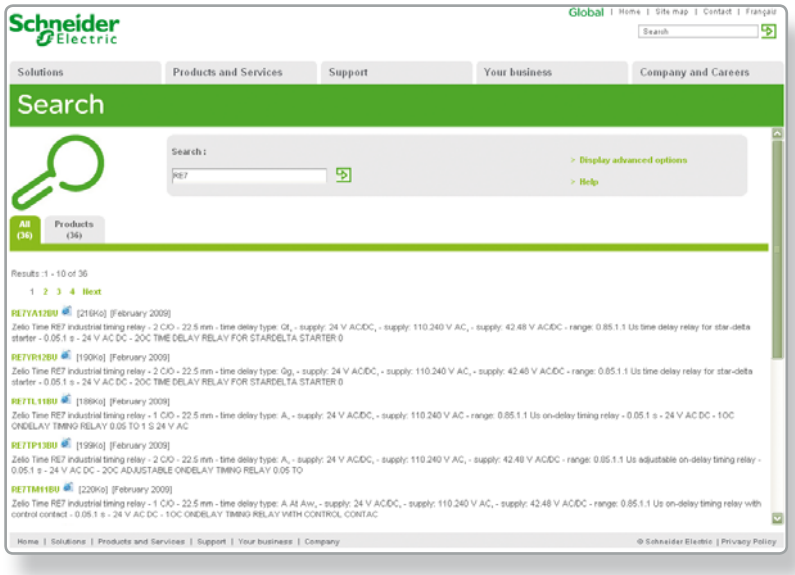
- characteristics,
- dimensions,
- curves, ...
- and also the links to the user guides and the CAD files.

1 From the home page, type the model number* into the “Search” box.



* type the model number without any blank, replace “●” by “*”

2 Under ”All” tab, click the model number that interests you.





Harmony XB4/XB5 provides a complete control & signalling solution for harsh environments

Applications today demand high performance in harsh environments. Outdoor use of machinery, high pressure cleaning and exposure to extreme temperature conditions are common and can adversely affect the performance of devices for human machine interfacing.

> Designed to perform
Complete offer for all applications in harsh environments

> Built on proven quality
A robust and rugged design with high performance and long life in use

> Common accessories and complementary functions
Proven quality and worldwide availability

Contents

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Harmony XB4 & XB5 common components ..... 16 to 17

Make the most of your energy

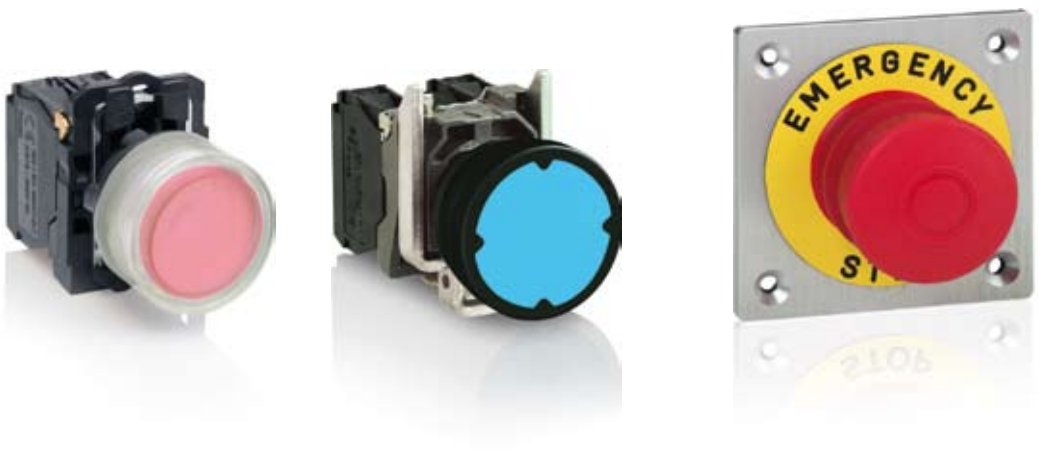
Designed to perform

Harmony for harsh Environments is designed for the most difficult of applications. As the market leader in control and signalling, Schneider Electric has the knowledge and experience to meet your exacting demands.

> Rugged design and protection

- External boot to prevent ingress of water and dust into the head as well as the panel
- Large diameter head for operation by gloved hand.

IP66
IP69K
performance



> Unique and innovative marking system

- Clear marking, with high contrast symbols or text
- UV resistant for high performance and long life
- Marking is customizable to your application.



100%
customizable head marking

Built on proven quality

Harmony for harsh environments perfectly complements the world leading XB4 and XB5 families with over 10 years of proven quality and performance.

> Complete range

These pushbuttons are available in XB4 metal bodied and XB5 plastic bodied versions, and both are fitted with an external boot to protect against liquid and dust ingress into the head itself.

More than
200 million
products in service

Common accessories

Uses fixing collars and contact blocks from the XB4 and XB5 families – over 10 years of proven quality and performance.

> ... and complementary functions to complete your solution

- Booted pushbuttons, selector switches, key operated switches
- Emergency Stop devices
- Illuminated functions for status indication
- Protective guard to limit accidental operation
- Protective boot for high dust environments

to limit contact block pollution.

100%
Worldwide availability



	Industrial vehicule	Outdoor machinery	Mining	Marine
				
Harmony **XB4**	★★★★	★★★★	★★★★	★★
Harmony **XB5**	★★	★★	★	★★★★

Control and signalling units Ø 22

Harmony® XB4 metal

Pushbuttons and switches for harsh environment

Spring return pushbuttons, unmarked or with marking

Assembly of other products using body/contact assemblies: see page 16


PF101202

ZB4 BC580


PF101213

ZB4 BC28001


PF101203

ZBZ 1902


PF101214

ZBZ 60


PF101208

Contact + ZB4 BC28001


PF101209

Contact + ZB4 BC28001RA

Pushbuttons with integrated bellows

Shape of head	Colour of push	Symbol	Reference	Weight kg
Heads only, Ø 37 mm (IP 66 + IP 69K) without marking				
Flush	White	–	**ZB4 BC180**	0.036
	Black	–	**ZB4 BC280**	0.036
	Green	–	**ZB4 BC380**	0.036
	Red	–	**ZB4 BC480**	0.036
	Yellow	–	**ZB4 BC580**	0.036
	Blue	–	**ZB4 BC680**	0.036
	Grey	–	**ZB4 BC780**	0.036
	Light blue	–	**ZB4 BC980**	0.036
Heads only, Ø 37 mm (IP 66 + IP 69K) with marking *(1)*				
Flush	Black	Bell	**ZB4 BC28001**	0.036
		0	**ZB4 BC28021**	0.036
	White	I	**ZB4 BC18023**	0.036
	Red	0	**ZB4 BC48021**	0.036
	Green	I	**ZB4 BC38023**	0.036

Accessories

Description	Function	Reference	Weight kg
Protective guard in plastic	Protection against accidental operation	**ZBZ 1902** *(2)*	0.010
Boot for contact block ZBE 10●, ZBE 10●3 and ZBE 50● *(3)*	Protection against dust ingress (IP 5x)	**ZBZ 60**	0.098
Other versions	Customization with other texts or symbols Please consult our Customer Care Centre.		

(1) Heads are fixed relative to the position of the contact blocks:

- contact blocks are normally used in the "vertical" position.

- to mount the contact block in the "horizontal" position, it is necessary to order an alternative head with the symbol rotated by 90°. Please add the suffix «RA» in the end of the references for alternative heads of your choice.
Example: ZB4 BC28001 becomes ZB4 BC28001RA.

(2) For heads with the RA suffix (ZB4 BC●●●●RA) used with a guard, it is necessary to order the dedicated guard ZBZ 1902RA.
(3) Restriction for use: refer to the product instruction sheet on www.schneider-electric.com.

Control and signalling units Ø 22
Harmony® XB4 metal
Pushbuttons and switches for harsh environment
Spring return pushbuttons, unmarked

Assembly of other products using body/contact assemblies: see page 16


110012
XB4 BP42


PG115073
ZB4 BP58


PG113498
ZB4 BP3S


109495
ZB4 BP183


107360
ZBP 0

Pushbuttons with silicone booted head
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Colour of push	Reference	Weight kg
Complete units (IP 66 + IP 69K)						
	**Booted, clear silicone** (colour of push unobscured)	1	–	Black	**XB4 BP21** (ZB4 BZ101 + ZB4 BP2)	0.082
				Green	**XB4 BP31** (ZB4 BZ101 + ZB4 BP3)	0.082
				Yellow	**XB4 BP51** (ZB4 BZ101 + ZB4 BP5)	0.082
				Blue	**XB4 BP61** (ZB4 BZ101 + ZB4 BP6)	0.082
		–	1	Red	**XB4 BP42** (ZB4 BZ102 + ZB4 BP4)	0.082
Silicone booted heads only, with increased protection (IP 66 + IP 69K)						
Flush 	**Clear boot** *(1)* For insertion of protected legend within head *(2)*			White	**ZB4 BP18**	0.034
				Green	**ZB4 BP38**	0.034
				Red	**ZB4 BP48**	0.034
				Yellow	**ZB4 BP58**	0.034
				Blue	**ZB4 BP68**	0.034
Projecting 	**Clear boot** *(1)*			White	**ZB4 BP1**	0.031
				Black	**ZB4 BP2**	0.031
				Green	**ZB4 BP3**	0.031
				Red	**ZB4 BP4**	0.031
				Yellow	**ZB4 BP5**	0.031
				Blue	**ZB4 BP6**	0.031
Silicone booted heads only, standard for mounting with legend holder (IP 66)						
Flush 	**Coloured boot**			White	**ZB4 BP1S**	0.034
				Black	**ZB4 BP2S**	0.034
				Green	**ZB4 BP3S**	0.034
				Red	**ZB4 BP4S**	0.034
				Yellow	**ZB4 BP5S**	0.034
				Blue	**ZB4 BP6S**	0.034
	Clear membrane For insertion of protected legend within head *(2)*			White	**ZB4 BP183**	0.026
				Green	**ZB4 BP383**	0.026
				Red	**ZB4 BP483**	0.026
				Yellow	**ZB4 BP583**	0.026
				Blue	**ZB4 BP683**	0.026

Transparent boots for pushbuttons

Description	For use with pushbutton types	Sold in lots of	Unit reference	Weight kg
Single boots *(1)*	Flush with circular head	10	**ZBP A**	0.002
	Projecting with circular head and push-push version	10	**ZBP 0**	0.002
	Flush or projecting with circular head for food industry applications	10	**ZBP 0A**	0.002

Coloured boots

Description	Colour	For use with	Sold in lots of	Unit reference	Weight kg
Coloured boots *(3)*	Black	ZB4 BP2S	10	**ZBP 012**	0.003
	Green	ZB4 BP3S	10	**ZBP 013**	0.003
	Red	ZB4 BP4S	10	**ZBP 014**	0.003
	Yellow	ZB4 BP5S	10	**ZBP 015**	0.003
	Blue	ZB4 BP6S	10	**ZBP 016**	0.003

Heads with black metal bezel

To order, add a figure **7** to the references selected from above.
Example: **ZB4 BP18** becomes **ZB4 BP187**.

(1) Permissible panel thickness 1 to 5 mm, cannot be used with legend holders.
(2) To order a legend for insertion within the head, please consult our site www.schneider-electric.com.
(3) Can be replaced without dismantling the head.

Control and signalling units Ø 22

Harmony® XB4 metal

Pushbuttons and switches for harsh environment

Multiple headed pushbuttons, spring return

Assembly of other products using body/contact assemblies: see page 16



XB4 BL73415



ZB4 BA7121



ZB4 BL7341



XB4 BW73731●5



ZB4 BW7A1721



ZB4 BW7A3741

Double-headed pushbuttons *(1)*

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

Shape of head	Description	Type of contact N/O	Type of contact N/C	Colour and marking of caps *(2)*	Reference	Weight kg
Complete units (IP 66 + IP 69K)						
	2 pushes (1 flush black + 1 projecting red)	1	1	White “I” on green background White “0” on red background	**XB4 BL73415**	0.116
Heads only (IP 66 + IP 69K)						
	2 flush black pushes			White background + black background, unmarked	**ZB4 BA7120**	0.056
				Black “I” on white background White “0” on black background	**ZB4 BA7121**	0.056
				Green background + red background, unmarked	**ZB4 BA7340**	0.056
				White “I” on green background White “0” on red background	**ZB4 BA7341**	0.056
				Without cap *(3)*	**ZB4 BA79**	0.056
	1 flush black push 1 projecting red push			Green background + red background, unmarked	**ZB4 BL7340**	0.056
				White “I” on green background White “0” on red background	**ZB4 BL7341**	0.056

Double-headed pushbuttons + 1 white central pilot light block *(1)*

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

Shape of head	Description	Type of contact N/O	Type of contact N/C	Colour and marking of caps *(2)*	Pilot light voltage V	Reference	Weight kg
Complete units (IP 66 + IP 69K)							
Protected LED	**1 flush black push 1 projecting red push 1 white central pilot light block**	1	1	White “I” on green background White “0” on red background	24	**XB4 BW73731B5**	0.130
					120	**XB4 BW73731G5**	0.130
					240	**XB4 BW73731M5**	0.130
Heads only (IP 66 + IP 69K) *(5)*							
Protected LED	**2 flush black pushes 1 clear central pilot light** *(4)*			White background + black background, unmarked		**ZB4 BW7A1720**	0.056
				Black “I” on white background White “0” on black background		**ZB4 BW7A1721**	0.056
				Green background + red background, unmarked		**ZB4 BW7A3740**	0.056
				White “I” on green background White “0” on red background		**ZB4 BW7A3741**	0.056
				Black “⬆” on white background White “⇩” on black background		**ZB4 BW7A1724**	0.056
				Black “+” on white background Black “–” on white background		**ZB4 BW7A1715**	0.056
				Without cap *(3)*		**ZB4 BW7A9**	0.056
Protected LED	**1 flush black push 1 projecting red push 1 clear central pilot light** *(4)*			Green background + red background, unmarked		**ZB4 BW7L3740**	0.056
				White “I” on green background White “0” on red background		**ZB4 BW7L3741**	0.056

Heads with black metal bezel

To order, add the suffix **7** to the references selected above. Example: **ZB4 BA7120** becomes **ZB4 BA71207**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, please consult our site www.schneider-electric.com.
(2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).
(3) Caps to be ordered separately: see page opposite.
(4) Colour of centrally positioned pilot light determined by the colour of the LED incorporated in the body sub-assembly.
(5) Only for use with bodies comprising a light source with integral LED.

Control and signalling units Ø 22
Harmony® XB4 metal
Pushbuttons and switches for harsh environment
Multiple headed pushbuttons, spring return

Assembly of other products using body/contact assemblies: see page 16

DF569144



XB4 BA731327

DF569146



ZB4 BA73133

DF569148



ZB4 BA71124

DF540585



ZBA 7235

DF569177



ZBA 7331

DF569178



ZBA 7432

DF540598



ZBA 709

Triple-headed pushbuttons *(1) (2)*

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

Shape of head	Description	Type of contact N/O	N/C	N/O	Colour and marking of caps *(3)*	Reference	Weight kg
Complete units (IP 66 + IP 69K)							
	**2 flush black pushes + 1 central projecting red push marked "Stop" in white**	1	1	1	White "I" on green background White "II" on green background	**XB4 BA731327**	0.128
					Black "➡" on white background White "⇦" on black background	**XB4 BA711237**	0.128
Heads only (IP 66 + IP 69K)							
	**2 flush black pushes + 1 central projecting red push marked "Stop" in white**				White "I" on green background White "II" on green background	**ZB4 BA73132**	0.056
					White "⇦" on green background White "⇨" on green background	**ZB4 BA73133**	0.056
					White "⇧" on green background White "⇩" on green background	**ZB4 BA73134**	0.056
					White "+" on green background White "–" on green background	**ZB4 BA73135**	0.056
					Black "+" on white background Black "–" on white background	**ZB4 BA71115**	0.056
					Black "➡" on white background White "⇦" on black background	**ZB4 BA71123**	0.056
					Black "⇧" on white background White "⇩" on black background	**ZB4 BA71124**	0.056
					White "⇧" on black background White "⇩" on black background	**ZB4 BA72124**	0.056
					Without cap *(4)*	**ZB4 BA791**	0.056

Specific accessories for multiple-headed pushbuttons

Description	Background colour	Marking	Sold in lots of	Reference	Weight kg
Caps only for clip-on mounting *(5)* on: - ZB4 BA79 double-headed pushbuttons - ZB4 BW7A9 double-headed pushbuttons + central pilot light block - ZB4 BA791 triple-headed pushbuttons	White	Unmarked	10	**ZBA 71**	0.010
		"I" black	10	**ZBA 7131**	0.010
		"➡" black	10	**ZBA 7134**	0.010
		"+" black	10	**ZBA 7138**	0.010
	Black	Unmarked	10	**ZBA 72**	0.010
		"O" white	10	**ZBA 7232**	0.010
		"+" white	10	**ZBA 7233**	0.010
		"⇨" white	10	**ZBA 7235**	0.010
		"I" white	10	**ZBA 7237**	0.010
	Green	Unmarked	10	**ZBA 73**	0.010
		"I" white	10	**ZBA 7331**	0.010
		"+" white	10	**ZBA 7333**	0.010
		"⇧" white	10	**ZBA 7335**	0.010
		"II" white	10	**ZBA 7336**	0.010
	Red	Unmarked	10	**ZBA 74**	0.010
		"O" white	10	**ZBA 7432**	0.010
	Yellow	Unmarked	10	**ZBA 75**	0.010
	Blue	Unmarked	10	**ZBA 76**	0.010
Clear silicone boots *(6)*	For 2 flush pushes	–	10	**ZBA 708**	0.055
	For 3 pushes	–	10	**ZBA 709**	0.055
	For 1 flush push + 1 projecting push	–	10	**ZBA 710**	0.055

Heads with black metal bezel

To order, add the suffix **7** to the references selected above.
Example: **ZB4 BA73132** becomes **ZB4 BA731327**.

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, please consult our site www.schneider-electric.com.
(2) Not compatible with high power switching contacts and contacts for printed circuit board.
(3) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).
(4) Caps to be ordered separately: see accessories on this page.
(5) Can be clipped-in at 90° steps, through 360°.
(6) Can be replaced without dismantling the head.

Control and signalling units Ø 22

Harmony® XB4 metal

Pushbuttons and switches for harsh environment

Emergency stop devices conforming to EN/IEC 60204-1, to EN/ISO 13850 and Machinery Directive 2006/42/EC

Assembly of other products using body/contact assemblies: see page 16

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


107171

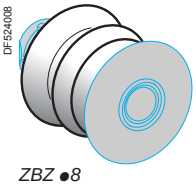
XB4 BT845


107172

XB4 BS9445


107176

XB4 BS834


DF524008

ZBZ ●8

Emergency stop trigger action and mechanical latching pushbuttons *(1)*

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

Complete units (IP 66)

Shape of head	Type of reset	Type of contact N/O	Type of contact N/C	Push Ø (mm)	Push Colour	Reference	Weight kg
	Push-pull	1	1	40	Red	**XB4 BT845** (ZB4 BZ105 + ZB4 BT84)	0.136
	Turn to release	1	1	40	Red	**XB4 BS8445** (ZB4 BZ105 + ZB4 BS844)	0.130
		–	2	40	Red	**XB4 BS8444** (ZB4 BZ104 + ZB4 BS844)	0.130
		1	2	40	Red	**XB4 BS84441** (ZB4 BZ141 + ZB4 BS844)	0.140
	Key release (key n° 455) *(2)*	1	1	40	Red	**XB4 BS9445** (ZB4 BZ105 + ZB4 BS944)	0.170

Heads only (IP 66)

Shape of head	Type of reset	Push Ø mm	Push Colour	Reference	Weight kg
	Push-pull	30	Red	**ZB4 BT844**	0.078
		40	Red	**ZB4 BT84**	0.078
		60	Red	**ZB4 BX84**	0.098
	Turn to release	30	Red	**ZB4 BS834**	0.068
		40	Red	**ZB4 BS844**	0.073
		60	Red	**ZB4 BS864**	0.093
	Key release (key n° 455) 2 keys included with head *(3)* *(2)*	30	Red	**ZB4 BS934**	0.094
		40	Red	**ZB4 BS944**	0.098
		60	Red	**ZB4 BS964**	0.118

Bellows for harsh environment (IP 69K) *(4)*

For use in	Material	Colour	Sold in lots of	Unit reference	Weight kg
Environment subject to humidity, dust, high pressure cleaning, etc.	Silicone	Red	2	**ZBZ 48**	0.009
	EPDM	Black	2	**ZBZ 28**	0.009
		Yellow	2	**ZBZ 58**	0.009

Heads with black metal bezel

To order, add a figure **7** to the references selected above.
Example: **ZB4 BT844** becomes **ZB4 BT8447**.

(1) It is recommended that a legend or yellow background is used.
(2) The symbol ⚷ indicates key withdrawal position(s).
(3) For specific keys with other numbers, please consult your Customer Care Centre.
(4) Not compatible with Ø 30 Emergency Stop head.

Control and signalling units Ø 22
Harmony® XB4 metal
Pushbuttons and switches for harsh environment
Selector switches and key switches

Assembly of other products using body/contact assemblies: see page 16

Selector switches with standard handle and key switches
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Type of operator	Positions: Number	Positions: Type		Reference	Weight kg
Heads only (IP 66 + IP 69K)						
	**Selector switch with standard handle, black**	2-position 90°	Stay put		**ZB4 BD2**	0.040
			Spring return from right to left		**ZB4 BD4**	0.045
		3-position ± 45°	Stay put		**ZB4 BD3**	0.040
			Spring return to centre		**ZB4 BD5**	0.040
			Spring return from left to centre		**ZB4 BD7**	0.040
			Spring return from right to centre		**ZB4 BD8**	0.040
	**Key switch with key n° 455** *(1) (2)*	2-position 90°	Stay put		**ZB4 BG2**	0.098
					**ZB4 BG02**	0.098
					**ZB4 BG4**	0.098
			Spring return from right to left		**ZB4 BG6**	0.098
		3-position ± 45°	Stay put		**ZB4 BG0**	0.098
					**ZB4 BG03**	0.098
					**ZB4 BG04**	0.098
					**ZB4 BG3**	0.098
					**ZB4 BG5**	0.098
					**ZB4 BG9**	0.098
					**ZB4 BG09**	0.098


PF106195

ZB4 BD4


PF106199

ZB4 BG0

Heads with black metal bezel
For heads with standard black handle only. To order, add the suffix **7** to the references selected from above.
Example: **ZB4 BD2** becomes **ZB4 BD27**.

Replacement keys

Description	Key number	Reference	Weight kg
Keys for booted selector switches			
Sets of 2 keys, one of which supplied booted (rubber boot)	455	**ZBG 455P**	–
	421E	**ZBG 421EP**	–
	458A	**ZBG 458AP**	–
	520E	**ZBG 520EP**	–
	3131A	**ZBG 3131AP**	–


106554

ZBG 455P

Accessory for key switches *(3)*

Description	Function	Reference	Weight kg
Keyhole cover (rubber cover)	Protection of lock barrel when no key inserted in lock	**ZBG P**	0.005


PF100233

ZBG P

Boot for standard handle

Description	For use with	Sold in lots of	Unit reference	Weight kg
Boot for standard handle	**ZB4 BD●**	5	**ZBD D2**	0.005


PF100232

ZBD D2

(1) The symbol ⚷ indicates key withdrawal position(s).
(2) For specific keys with other numbers, please consult your Customer Care Centre.
(3) Not compatible with products with key TEC10.

Control and signalling units Ø 22

Harmony® XB5 plastic

Pushbuttons and switches for harsh environment

Spring return pushbuttons, unmarked or with marking

Assembly of other products using body/contact assemblies: see page 16


PF101212

ZB5 AC680

Pushbuttons with integrated bellows

Shape of head	Colour of push	Reference	Weight kg
Heads only, Ø 37 mm (IP 66 + IP 69K) without marking			
Flush 	White	**ZB5 AC180**	0.024
	Black	**ZB5 AC280**	0.024
	Green	**ZB5 AC380**	0.024
	Red	**ZB5 AC480**	0.024
	Yellow	**ZB5 AC580**	0.024
	Blue	**ZB5 AC680**	0.024
	Grey	**ZB5 AC780**	0.024
	Light blue	**ZB5 AC980**	0.024
Heads only, Ø 37 mm (IP 66 + IP 69K) with marking			
Other versions	Customization with marking at your choice (texts or symbols) Rotation of head for horizontal mounting of the contact block *(1)* Please consult our Customer Care Centre.		


PF101203

ZBZ 1902

Accessories

Description	Function	Reference	Weight kg
Protective guard in plastic	Protection against accidental operation	**ZBZ 1902** *(2)*	0.010
Boot for contact block ZBE 10●, ZBE 10●3 and ZBE 50● *(3)*	Protection against dust ingress (IP 5x)	**ZBZ 60**	0.098


PF101214

ZBZ 60

(1) Heads are fixed relative to the position of the contact blocks: contact blocks are normally used in the "vertical" position. It is necessary to order an alternative head with the symbol rotated by 90° in order to mount the contact block in the "horizontal" position (see images page 2). Please add the suffix «RA» in the end of the references for alternative heads of your choice.
(2) For heads with the RA suffix (ZB5 AC●●●●RA) used with a guard, it is necessary to order the dedicated guard ZBZ 1902RA.
(3) Restriction for use: refer to the product instruction sheet on www.schneider-electric.com.

Control and signalling units Ø 22

Harmony® XB5 plastic

Pushbuttons and switches for harsh environment

Spring return pushbuttons, unmarked

Assembly of other products using body/contact assemblies: see page 16


101287

XB5 AP51


110267

ZB5 AP4


PG113876

ZB5 AP6S


109499

ZB5 AP183


107360

ZBP 0

Pushbuttons with silicone booted head

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

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Colour of push	Reference	Weight kg
Complete units (IP 66 + IP 69K)						
	Booted, clear silicone (colour of push unobscured)	1	–	Black	**XB5 AP21** (ZB5 AZ101 + ZB5 AP2)	0.039
				Green	**XB5 AP31** (ZB5 AZ101 + ZB5 AP3)	0.039
				Yellow	**XB5 AP51** (ZB5 AZ101 + ZB5 AP5)	0.039
				Blue	**XB5 AP61** (ZB5 AZ101 + ZB5 AP6)	0.039
		–	1	Red	**XB5 AP42** (ZB5 AZ102 + ZB5 AP4)	0.039
Silicone booted heads only, with increased protection (IP 66 + IP 69K)						
Flush	**Clear boot** *(1)* For insertion of protected legend within head *(2)*			White	**ZB5 AP18**	0.023
				Green	**ZB5 AP38**	0.023
				Red	**ZB5 AP48**	0.023
				Yellow	**ZB5 AP58**	0.023
				Blue	**ZB5 AP68**	0.023
Projecting	**Clear boot** *(1)*			White	**ZB5 AP1**	0.014
				Black	**ZB5 AP2**	0.014
				Green	**ZB5 AP3**	0.014
				Red	**ZB5 AP4**	0.014
				Yellow	**ZB5 AP5**	0.014
				Blue	**ZB5 AP6**	0.014
Silicone booted heads only, standard for mounting with legend holder (IP 66)						
Flush	**Coloured boot**			White	**ZB5 AP1S**	0.021
				Black	**ZB5 AP2S**	0.021
				Green	**ZB5 AP3S**	0.021
				Red	**ZB5 AP4S**	0.021
				Yellow	**ZB5 AP5S**	0.021
				Blue	**ZB5 AP6S**	0.021
	Clear membrane For insertion of protected legend within head *(2)*			White	**ZB5 AP183**	0.010
				Green	**ZB5 AP383**	0.010
				Red	**ZB5 AP483**	0.010
				Yellow	**ZB5 AP583**	0.010
				Blue	**ZB5 AP683**	0.010

Transparent boots for pushbuttons

Description	For use with pushbutton types	Sold in lots of	Unit reference	Weight kg
Single boots *(1)*	Flush with circular head	10	**ZBP A**	0.002
	Projecting with circular head and push-push version	10	**ZBP 0**	0.002
	Flush or projecting with circular head for food industry applications	10	**ZBP 0A**	0.002

Coloured boots

Description	Colour	For use with	Sold in lots of	Unit reference	Weight kg
Coloured boots *(3)*	Black	ZB5 AP2S	10	**ZBP 012**	0.003
	Green	ZB5 AP3S	10	**ZBP 013**	0.003
	Red	ZB5 AP4S	10	**ZBP 014**	0.003
	Yellow	ZB5 AP5S	10	**ZBP 015**	0.003
	Blue	ZB5 AP6S	10	**ZBP 016**	0.003

Heads with black metal bezel

To order, add a figure **7** to the references selected from above.
Example: **ZB5 AP18** becomes **ZB5 AP187**.

(1) Permissible panel thickness 1 to 5 mm, cannot be used with legend holders.
(2) To order a legend for insertion within the head, please consult our site www.schneider-electric.com.
(3) Can be replaced without dismantling the head.

Control and signalling units Ø 22
Harmony® XB5 plastic
Pushbuttons and switches for harsh environment
Multiple-headed pushbuttons, spring return

Assembly of other products using body/contact assemblies: see page 16



XB5 AL73415



ZB5 AA7121



ZB5 AL7341



XB5 AW73731●5



ZB5 AW7A1721



ZB5 AW7A3741

Double-headed pushbuttons *(1)*
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Colour and marking of caps *(2)*	Reference	Weight kg
Complete units (IP 66 + IP 69K)						
	2 pushes (1 flush black + 1 projecting red)	1	1	White “I” on green background White “0” on red background	**XB5 AL73415**	0.053
Heads only (IP 66 + IP 69K)						
	2 flush black pushes			White background + black background, unmarked	**ZB5 AA7120**	0.023
				Black “I” on white background White “0” on black background	**ZB5 AA7121**	0.023
				Green background + red background, unmarked	**ZB5 AA7340**	0.023
				White “I” on green background White “0” on red background	**ZB5 AA7341**	0.023
				Without cap *(3)*	**ZB5 AA79**	0.023
	1 flush black push 1 projecting red push			Green background + red background, unmarked	**ZB5 AL7340**	0.023
				White “I” on green background White “0” on red background	**ZB5 AL7341**	0.023

Double-headed pushbuttons + 1 white central pilot light block *(1)*
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Colour and marking of caps *(2)*	Pilot light voltage V	Reference	Weight kg
Complete units (IP 66 + IP 69K)							
Protected LED	**1 flush black push 1 projecting red push 1 white central pilot light block**	1	1	White “I” on green background White “0” on red background	24	**XB5 AW73731B5**	0.066
					120	**XB5 AW73731G5**	0.066
					240	**XB5 AW73731M5**	0.066
Heads only (IP 66 + IP 69K) *(5)*							
Protected LED	**2 flush black pushes 1 clear central pilot light** *(4)*			White background + black background, unmarked		**ZB5 AW7A1720**	0.023
				Black “I” on white background White “0” on black background		**ZB5 AW7A1721**	0.023
				Green background + red background, unmarked		**ZB5 AW7A3740**	0.023
				White “I” on green background White “0” on red background		**ZB5 AW7A3741**	0.023
				Black “⬆” on white background White “⇩” on black background		**ZB5 AW7A1724**	0.023
				Black “+” on white background Black “–” on white background		**ZB5 AW7A1715**	0.023
				Without cap *(3)*		**ZB5 AW7A9**	0.023
Protected LED	**1 flush black push 1 projecting red push 1 clear central pilot light** *(4)*			Green background + red background, unmarked		**ZB5 AW7L3740**	0.023
				White “I” on green background White “0” on red background		**ZB5 AW7L3741**	0.023

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, please consult our site www.schneider-electric.com.
(2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).
(3) Caps to be ordered separately: see page opposite.
(4) Colour of centrally positioned pilot light determined by the colour of the LED incorporated in the body sub-assembly.
(5) Only for use with bodies comprising a light source with integral LED.

Control and signalling units Ø 22
Harmony® XB5 plastic
Pushbuttons and switches for harsh environment
Multiple-headed pushbuttons, spring return

Assembly of other products using body/contact assemblies: see page 16

Triple-headed pushbuttons *(1) (2)*
Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact N/O	Type of contact N/C	Type of contact N/O	Colour and marking of caps *(3)*	Reference	Weight kg
Complete units (IP 66 + IP 69K)							
	**2 flush black pushes + 1 central projecting red push marked "Stop" in white**	1	1	1	White "I" on green background White "II" on green background	**XB5 AA731327**	0.063
					Black "➡" on white background White "⇦" on black background	**XB5 AA711237**	0.063
Heads only (IP 66 + IP 69K)							
	**2 flush black pushes + 1 central projecting red push marked "Stop" in white**				White "I" on green background White "II" on green background	**ZB5 AA73132**	0.023
					White "⇦" on green background White "⇨" on green background	**ZB5 AA73133**	0.023
					White "⇧" on green background White "⇩" on green background	**ZB5 AA73134**	0.023
					White "+" on green background White "–" on green background	**ZB5 AA73135**	0.023
					Black "+" on white background Black "–" on white background	**ZB5 AA71115**	0.023
					Black "➡" on white background White "⇦" on black background	**ZB5 AA71123**	0.023
					Black "⬆" on white background White "⇩" on black background	**ZB5 AA71124**	0.023
					White "⇧" on black background White "⇩" on black background	**ZB5 AA72124**	0.023
					Without cap *(4)*	**ZB5 AA791**	0.023

DF569143


XB5 AA731327

DF569145


ZB5 AA73133

DF569147


ZB5 AA71124

Specific accessories for multiple-headed pushbuttons

Description	Background colour	Marking	Sold in lots of	Reference	Weight kg
Caps only for clip-on mounting *(5)* on: - ZB5 AA79 double-headed pushbuttons - ZB5 AW7A9 double-headed pushbuttons + central pilot light block - ZB5 AA791 triple-headed pushbuttons	White	Unmarked	10	**ZBA 71**	0.010
		"I" black	10	**ZBA 7131**	0.010
		"➡" black	10	**ZBA 7134**	0.010
		"+" black	10	**ZBA 7138**	0.010
	Black	Unmarked	10	**ZBA 72**	0.010
		"O" white	10	**ZBA 7232**	0.010
		"+" white	10	**ZBA 7233**	0.010
		"⇨" white	10	**ZBA 7235**	0.010
		"I" white	10	**ZBA 7237**	0.010
	Green	Unmarked	10	**ZBA 73**	0.010
		"I" white	10	**ZBA 7331**	0.010
		"+" white	10	**ZBA 7333**	0.010
		"⇧" white	10	**ZBA 7335**	0.010
		"II" white	10	**ZBA 7336**	0.010
	Red	Unmarked	10	**ZBA 74**	0.010
		"O" white	10	**ZBA 7432**	0.010
	Yellow	Unmarked	10	**ZBA 75**	0.010
	Blue	Unmarked	10	**ZBA 76**	0.010
Clear silicone boots *(6)*	For 2 flush pushes	–	10	**ZBA 708**	0.055
	For 3 pushes	–	10	**ZBA 709**	0.055
	For 1 flush push + 1 projecting push	–	10	**ZBA 710**	0.055

DF540585

ZBA 7235

DF569177

ZBA 7331

DF569178

ZBA 7432

DF540598

ZBA 709

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, please consult our site www.schneider-electric.com.
(2) Not compatible with high power switching contacts and contacts for printed circuit board.
(3) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).
(4) Caps to be ordered separately: see accessories on this page.
(5) Can be clipped-in at 90° steps, through 360°.
(6) Can be replaced without dismantling the head.

Assembly of other products using body/contact assemblies: see page 16

Control and signalling units Ø 22

Harmony® XB5 plastic

Pushbuttons and switches for harsh environment

Emergency stop devices conforming to EN/IEC 60204-1, to EN/ISO 13850 and Machinery Directive 2006/42/EC

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


PF107183

XB5 AT845


107184

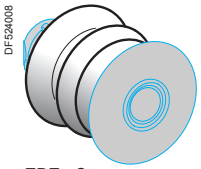
XB5 AS8445


107182

XB5 AS9445


107188

ZB5 AS844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ZBZ ●8

Emergency stop trigger action and mechanical latching pushbuttons *(1)*

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

Shape of head	Type of reset	Type of contact N/O	Type of contact N/C	Push Ø (mm)	Colour	Reference	Weight kg
Complete units (IP 66)							
	Push-pull	1	1	40	Red	**XB5 AT845** (ZB5 AZ105 + ZB5 AT84)	0.076
	Turn to release	1	1	40	Red	**XB5 AS8445** (ZB5 AZ105 + ZB5 AS844)	0.072
		–	2	40	Red	**XB5 AS8444** (ZB5 AZ104 + ZB5 AS844)	0.072
	Key release (key n° 455) *(2)*	1	1	40	Red	**XB5 AS9445** (ZB5 AZ105 + ZB5 AS944)	0.112
Heads only (IP 66)							
Shape of head	**Type of reset**			**Push Ø (mm)**	**Colour**	**Reference**	**Weight kg**
	Push-pull			30	Red	**ZB5 AT844**	0.050
				40	Red	**ZB5 AT84**	0.050
				60	Red	**ZB5 AX84**	0.050
	Turn to release			30	Red	**ZB5 AS834**	0.042
				40	Red	**ZB5 AS844**	0.046
	Key release (key n° 455) *(3)* 2 keys included with head *(2)*			30	Red	**ZB5 AS934**	0.068
				40	Red	**ZB5 AS944**	0.071
				60	Red	**ZB5 AS964**	0.092
	Key release (key n° 4A185) *(3)*			40	Red	**ZB5 AS944D**	0.071

Bellows for harsh environment (IP 69K) *(4)*

For use in	Material	Colour	Sold in lots of	Unit reference	Weight kg
Environment subject to humidity, dust, high pressure cleaning, etc.	Silicone	Red	2	**ZBZ 48**	0.009
	EPDM	Black	2	**ZBZ 28**	0.009
		Yellow	2	**ZBZ 58**	0.009

(1) It is recommended that a legend or yellow background is used.
(2) The symbol ⚷ indicates key withdrawal position(s).
(3) For specific keys with other numbers, please consult your Customer Care Centre.
(4) Not compatible with Ø 30 Emergency Stop head.

Control and signalling units Ø 22

Harmony® XB5 plastic

Pushbuttons and switches for harsh environment

Selector switches and key switches

Assembly of other products using body/contact assemblies: see page 16


PF106215

ZB5 AD2


PF106223

ZB5 AG3

Selector switches with standard handle and key switches

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

Shape of head	Type of operator	Positions: Number	Positions: Type		Reference	Weight kg
Heads only (IP 66 + IP 69K)						
	**Standard handle, black**	2-position 90°	Stay put		**ZB5 AD2**	0.017
			Spring return from right to left		**ZB5 AD4**	0.020
		3-position ± 45°	Stay put		**ZB5 AD3**	0.017
			Spring return to centre		**ZB5 AD5**	0.017
			Spring return from left to centre		**ZB5 AD7**	0.017
			Spring return from right to centre		**ZB5 AD8**	0.017
	**Key switch with key n° 455** *(1) (2)*	2-position 90°	Stay put		**ZB5 AG2**	0.057
					**ZB5 AG02**	0.057
					**ZB5 AG4**	0.057
			Spring return from right to left		**ZB5 AG6**	0.061
		3-position ± 45°	Stay put		**ZB5 AG0**	0.057
					**ZB5 AG3**	0.057
					**ZB5 AG5**	0.057
					**ZB5 AG9**	0.057
					**ZB5 AG09**	0.057
			Spring return from left to centre		**ZB5 AG1**	0.057
			Spring return to centre		**ZB5 AG7**	0.057
			Spring return from right to center		**ZB5 AG8**	0.057
					**ZB5 AG05**	0.057


106554

ZBG 455P

Heads with black metal bezel

For heads with standard black handle only. To order, add the suffix 7 to the references selected from above.
Example: **ZB5 AD2** becomes **ZB5 AD27**.

Replacement keys

Description	Key number	Reference	Weight kg
Keys for booted selector switches			
Sets of 2 keys, one of which supplied booted (rubber boot)	455	**ZBG 455P**	–
	421E	**ZBG 421EP**	–
	458A	**ZBG 458AP**	–
	520E	**ZBG 520EP**	–
	3131A	**ZBG 3131AP**	–


PF100233

ZBG P

Accessory for key switches *(3)*

Description	Function	Reference	Weight kg
Keyhole cover (rubber cover)	Protection of lock barrel when no key inserted in lock	**ZBG P**	0.005


PF100232

ZBD D2

Boot for standard handle

Description	For use with	Sold in lots of	Unit reference	Weight kg
Boot for standard handle	**ZB5 AD●**	5	**ZBD D2**	0.005

(1) The symbol ⚷ indicates key withdrawal position(s).
(2) For specific keys with other numbers, please consult your Customer Care Centre.
(3) Not compatible with products with key TEC10.

To combine with XB4 metal heads, see page 4
To combine with XB5 plastic heads, see page 10

Control and signalling units Ø 22

Harmony® XB4 metal and XB5 plastic

Pushbuttons and switches for harsh environment

Body/contact assemblies


101274

ZB4 BZ101


101363

ZB5 AZ101


PF107779

ZB4 BZ1015


PF107781

ZB5 AZ1015

Contact functions - Screw clamp terminal connections (Schneider Electric anti-retightening system)

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contacts blocks (for Harmony XB4 metal range)	Single with body/fixing collar	1	–	1	**ZB4 BZ101**	0.053
		–	1	1	**ZB4 BZ102**	0.053
		2	–	1	**ZB4 BZ103**	0.062
		–	2	1	**ZB4 BZ104**	0.062
		1	1	1	**ZB4 BZ105**	0.062
		1	2	1	**ZB4 BZ141**	0.072
Contacts blocks (for Harmony XB5 metal range)	Single with body/fixing collar	1	–	1	**ZB5 AZ101**	0.021
		–	1	1	**ZB5 AZ102**	0.021
		2	–	1	**ZB5 AZ103**	0.030
		–	2	1	**ZB5 AZ104**	0.030
		1	1	1	**ZB5 AZ105**	0.030
		1	2	1	**ZB5 AZ141**	0.040

Contact functions - Spring clamp terminal connections

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contacts blocks (for Harmony XB4 metal range)	Single with body/fixing collar	1	–	1	**ZB4 BZ1015**	0.053
		–	1	1	**ZB4 BZ1025**	0.053
		2	–	1	**ZB4 BZ1035**	0.062
		–	2	1	**ZB4 BZ1045**	0.062
		1	1	1	**ZB4 BZ1055**	0.062
Contacts blocks (for Harmony XB5 metal range)	Single with body/fixing collar	1	–	1	**ZB5 AZ1015**	0.021
		–	1	1	**ZB5 AZ1025**	0.021
		2	–	1	**ZB5 AZ1035**	0.030
		–	2	1	**ZB5 AZ1045**	0.030
		1	1	1	**ZB5 AZ1055**	0.030

Control and signalling units Ø 22

Harmony® XB4 metal and XB5 plastic

Pushbuttons and switches for harsh environment

Body/contact assemblies

To combine with XB4 metal heads, see page 4
To combine with XB5 plastic heads, see page 10

101191



ZB4 BZ009

Body/fixing collar

Contacts for standard applications

For use with	Type of range	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	Harmony XB4 metal	10	**ZB4 BZ009**	0.038
	Harmony XB5 plastic	10	**ZB5 AZ009**	0.038

101368



ZB5 AZ009

Contact functions - Screw clamp terminal connections (Schneider Electric anti-retightening system)

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks (for Harmony XB4 metal and XB5 plastic ranges)	Single	1	–	5	**ZBE 101**	0.011
		–	1	5	**ZBE 102**	0.011
	Double	2	–	5	**ZBE 203**	0.020
		–	2	5	**ZBE 204**	0.020
		1	1	5	**ZBE 205**	0.020

101264



ZBE 101

Contacts for specific applications

Application	Type of contact	Description	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks for low power switching (for Harmony XB4 metal and XB5 plastic ranges)	Single	Standard	1	–	5	**ZBE 1016**	0.012
			–	1	5	**ZBE 1026**	0.012
		Dusty environment *(1)* (IP5X, 50 µm dust)	1	–	5	**ZBE 1016P**	0.012
			–	1	5	**ZBE 1026P**	0.012
Contact blocks for high power switching (for Harmony XB4 metal and XB5 plastic ranges)	Single	Standard *(2)*	1	–	1	**ZBE 501**	0.020
			–	1	1	**ZBE 502**	0.020
			2	–	1	**ZBE 503**	0.032
			–	2	1	**ZBE 504**	0.032
			1	1	1	**ZBE 505**	0.032

101267



ZBE 203

PF080706



ZBE 501

Contact functions - Spring clamp terminal connections

Contacts for standard applications

Description	Type of contact	N/O	N/C	Sold in lots of	Unit reference	Weight kg
Contact blocks (for Harmony XB4 metal and XB5 plastic ranges)	Single	1	–	4	**ZBE 1015**	0.011
		–	1	4	**ZBE 1025**	0.011

PF107777



ZBE 1015

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

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