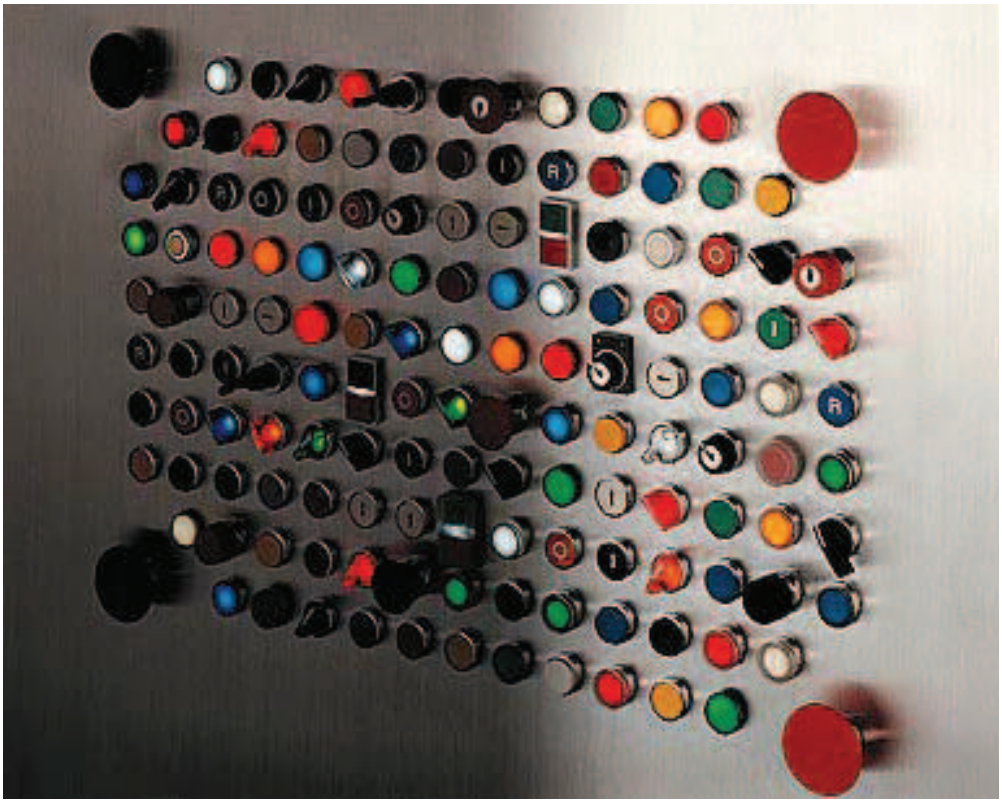
Control and Signaling
Diameter 22mm
XB5 / ZB5

Catalog
February
2004



a brand of Schneider Electric

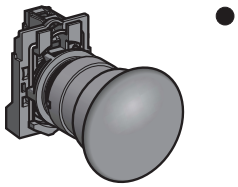
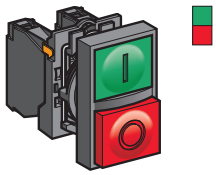
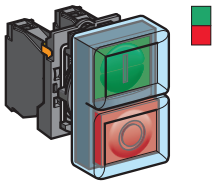
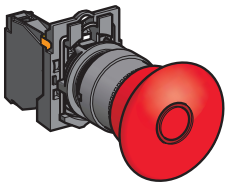
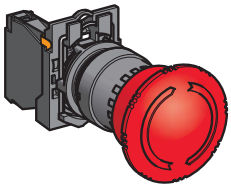
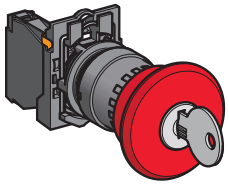
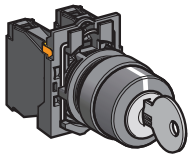
Telemecanique

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Complete units, XB5 A

Complete units	Contact functions		
Pushbuttons, spring return			
	Flush push XB5 AA●1/AA42 see page 36012/2	Flush push XB5 AA3311/AA33●1 see page 36012/2	Flush push XB5 AA4322 see page 36012/2
			
	Booted flush push XB5 AP●1/AP42 see page 36012/2	Projecting push XB5 AL42 see page 36012/2	Mushroom head XB5 AC21 see page 36012/2
Double-headed pushbuttons, spring return			
	Flush push + projecting push XB5 AL845 see page 36012/2	Booted flush push + projecting push XB5 AL945 see page 36012/2	
Ø 40 Emergency stop mushroom head pushbuttons with or without trigger action			
	Push-pull XB5 AT42/AT845 see page 36012/3	Turn to release XB5 AS542/AS8445 see page 36012/3	Key release XB5 AS142/AS9445 see page 36012/3
Selector switches and key switches			
	Standard black handle XB5 AD see page 36012/3	Long black handle XB5 AJ see page 36012/3	Key switch XB5 AG see page 36012/3

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Complete units, XB5 A

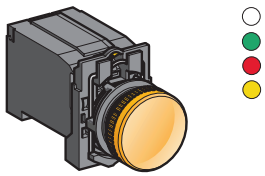
Complete units (continued)

Signalling functions

Pilot lights





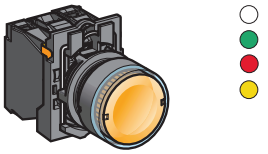


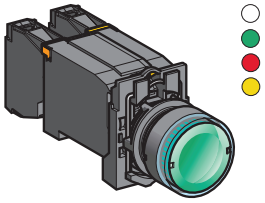
With integral LED	For BA 9s bulb Direct supply	Via integral transformer
XB5 AVB/AVG/AVM see page 36013/2	XB5 AV see page 36013/3	XB5 AV3/AV4 see page 36013/3

Combined functions (contact + signalling)

Illuminated pushbuttons, spring return, flush push

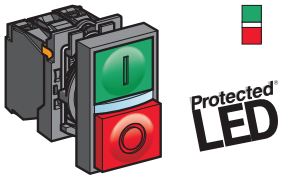






With integral LED	For BA 9s bulb Direct supply	Via integral transformer
XB5 AW3●B6/AW3●G5/AW3●M5 see page 36014/2	XB5 AW3●65 see page 36014/2	XB5 AW3●35/AW3●45 see page 36014/2

Double-headed pushbuttons, spring return, with pilot light



With integral LED
XB5 AW84●5 see page 36014/3

Illuminated selector switches, standard handle



With integral LED
XB5 AK12●B5/AK12●G5/BK12●M5 see page 36014/3

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Sub-assemblies, ZB5 A

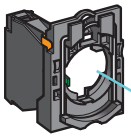
Non illuminated units for user assembly

Contact functions

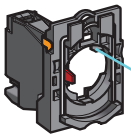
Body sub-assemblies

Head sub-assemblies

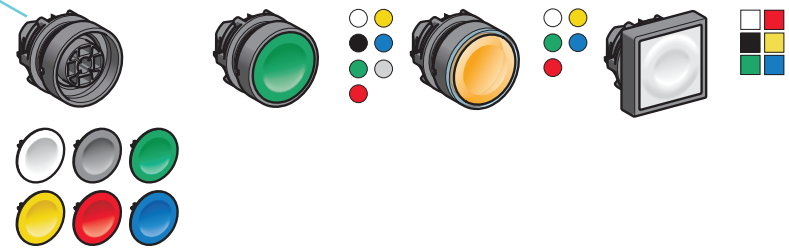
For pushbuttons, spring return, without marking



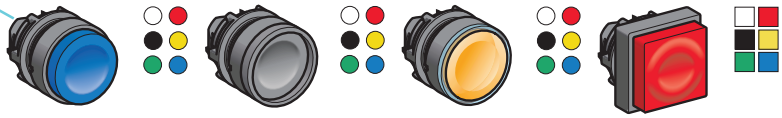
Screw clamp terminals
ZB5 AZ10●/AZ141
see page 36015/2



Plug-in connector
ZB5 AZ10●4/AZ1414
see page 36015/2



Flush push with cap mounted or not mounted		Flush push for insertion of legend	Flush push
ZB5 AA0/AA9 see page 36015/3	ZB5 AA● see page 36015/3	ZB5 AA●8 see page 36015/3	ZB5 CA● see page 36015/5



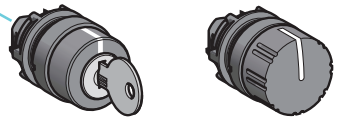
Projecting push	Recessed push	Booted flush push	Projecting push
ZB5 AL● see page 36015/3	ZB5 AA● see page 36015/3	ZB5 AP●/AP●8 see page 36015/3	ZB5 CL● see page 36015/3

For pushbuttons, spring return, with marking



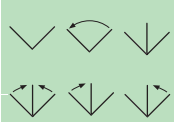
Flush push	Projecting push	Flush push
ZB5 AA●3●/AA●4● see page 36015/4	ZB5 AL see page 36015/4	ZB5 CA●3/CA●9 see page 36015/4

For "push-turn to release" pushbuttons

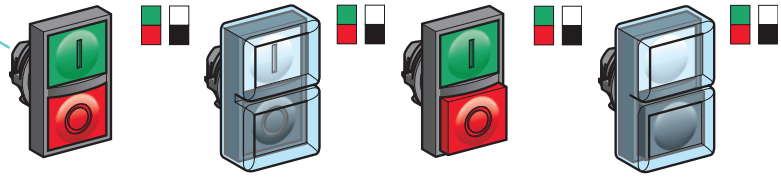


Key switch	Knurled knob *(1)*
ZB5 AFD see page 36015/4	ZB5 AF see page 36015/4

(1) Knob positions



For double-headed pushbuttons, spring return



Flush pushes (IP 40/IP 66) Without/with marking		Flush push + projecting push (IP 40/IP 66) Without/with marking	
ZB5 AA81/AA82 see page 36015/5	ZB5 AA91/AA92 see page 36015/5	ZB5 AL83/AL84 see page 36015/5	ZB5 AL93/AL94 see page 36015/5

For "push-push to release" pushbuttons



Flush push	Projecting push	Flush push
ZB5 AH0//CH0 see page 36015/5	ZB5 AH● see page 36015/5	ZB5 CH0● see page 36015/5

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Sub-assemblies, ZB5 A

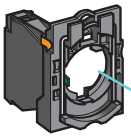
Non illuminated units for user assembly *(continued)*

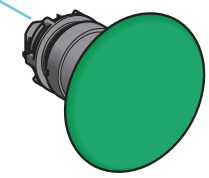
Contact functions *(continued)*

Body sub-assemblies

Head sub-assemblies

For mushroom head pushbuttons, spring return





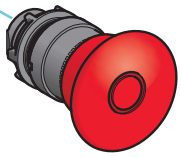
Ø 30
Ø 40
Ø 60

Screw clamp terminals
ZB5 AZ10●/AZ141
see page 36015/2

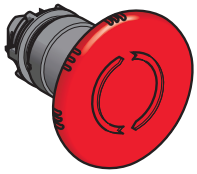
Spring return
ZB5 AC/AR
see page 36015/6

For mushroom head pushbuttons, latching, with or without trigger action





Ø 30
Ø 40
Ø 60

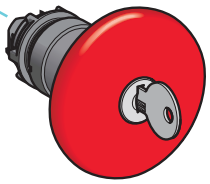


Ø 30
Ø 40
Ø 60

Plug-in connector
ZB5 AZ10●4/AZ1414
see page 36015/2

Push-pull
ZB5 AT84/AT●/AX●
see page 36015/7

Turn to release
ZB5 AS8●4/AS4●/ AS5●/AS6●
see page 36015/7



Ø 30
Ø 40
Ø 60

Key release
ZB5 AS9●4/AS7●/AS1●/AS2●
see page 36015/7

For selector switches and key switches



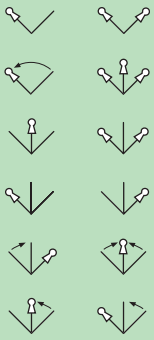
Standard handle *(1)*
ZB5 AD●
see page 36015/8

Long black handle *(1)*
ZB5 AJ●
see page 36015/9

(1) Switch handle and knob positions



(2) Key switch positions
Key withdrawal positions

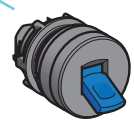




Knurled black knob *(1)*
ZB5 AD●9
see page 36015/10

Key switch *(2)*
ZB5 AG●/AG0●
see page 36015/11

For toggle switches



2-position
ZB5 AD●8
see page 36016/11

Control and signalling units Ø 22

Harmony® style 5

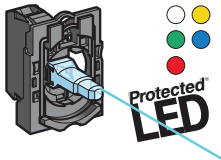
Pushbuttons, switches and pilot lights with double insulated bezel

Sub-assemblies, ZB5 A

Pilot lights for user assembly

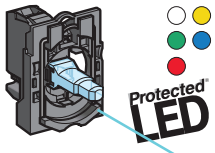
Signalling functions

Body sub-assemblies with integral LED



Screw clamp terminals

ZB5 AVB/AVG/AVM
see page 36016/2



Plug-in connector

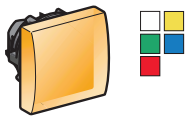
ZB5 AVB●4/AVG●4/AVM●4
see page 36016/2

Head sub-assemblies



With lens mounted

ZB5 AV0●3
see page 36016/3

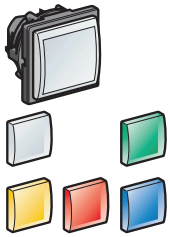


ZB5 CV0●3
see page 36016/3



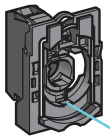
With 5 separate lenses not mounted

ZB5 AV003
see page 36016/3



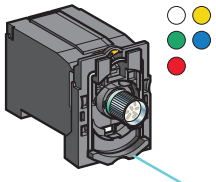
ZB5 CV003
see page 36016/3

Body sub-assemblies for BA 9s bulb



Direct supply
Screwclamp terminals

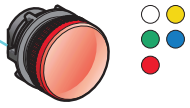
ZB5 AV6
see page 36016/3



Via integral transformer
Screw clamp terminals

ZB5 AV●/AV3D●/AV5D●
see page 36016/3

Head sub-assemblies



With lens mounted

ZB5 AV0●
see page 36016/3

Characteristics :
pages 36011/2 to 36011/5

References :
pages 36012/2 to 36019/3

Dimensions :
pages 36021/2 to 36021/9

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

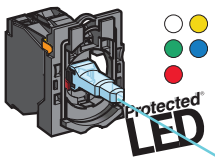
Sub-assemblies, ZB5 A

Illuminated pushbuttons for user assembly

Combined functions (contact + signalling)

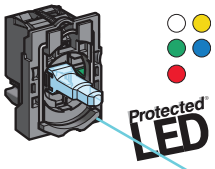
Body sub-assemblies with integral LED

For illuminated push-buttons, spring return



Screw clamp terminals

ZB5 AW0B/AW0G/ AW0M see pages 36017/4 and 36025/3



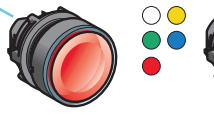
For double-headed pushbuttons, spring return, with pilot light

Plug-in connector

ZB5 AW0B●●4/ AW0G●●4/AW0M●●4 see pages 36017/4 and 36026/3

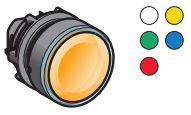
For illuminated "push-push to release" push-buttons and illuminated selector switches with standard handle

Head sub-assemblies



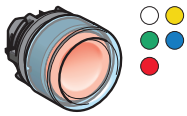
Flush push with cap mounted/not mounted

ZB5 AW3●3/AW9●3 see page 36017/7



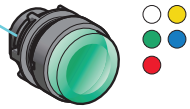
Flush push for insertion of legend

ZB5 AA●8 see page 36017/7



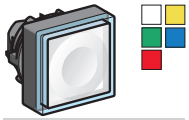
Booted flush push

ZB5 AW5●3 see page 36017/7



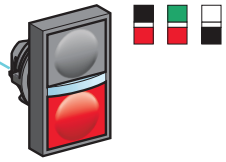
Projecting push

ZB5 AW1●3/AL●8 see page 36017/7



Flush or projecting push

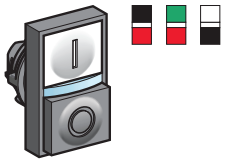
ZB5 CW3●3/CW1●3 see page 36017/7



Flush push
Without/with markings

ZB5 AW81●●●3 see page 36017/8

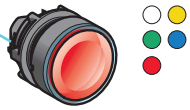
ZB5 AW82●●●3 see page 36017/8



Flush push + projecting push
Without/with markings

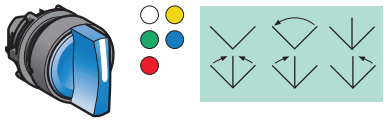
ZB5 AW83●●●3 see page 36017/8

ZB5 AW84●●●3 see page 36017/8



Flush or projecting "push-push to release"

ZB5 AH0●3/AH●3 see page 36017/8

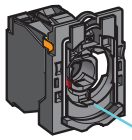


Standard handle operator

ZB5 AK1●●3 see page 36017/9

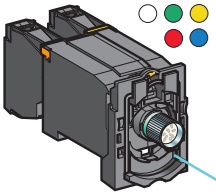
Body sub-assemblies for BA9s bulb

For illuminated push-buttons, spring return



Direct supply
Screw clamp terminals

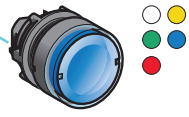
ZB5 AW06● see page 36017/6



Via integral transformer
Screw clamp terminals

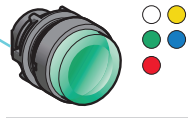
ZB5 AW03/4/5/3D/5D see page 36017/6

Head sub-assemblies



Flush push

ZB5 AW3● see page 36017/7



Projecting push

ZB5 AW1● see page 36017/7

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Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Environment

Protective treatment standard version			"TH"
Ambient air temperature around the device	Storage	**°C**	- 40…+ 70
	Operation	**°C**	- 25…+ 70 unless otherwise stated
Electric shock protection	Conforming to IEC 60536		Class II
Degree of protection	Conforming to IEC 60529		IP 65, unless otherwise stated IP 66, for booted pushbutton heads
	Conforming to NEMA		NEMA type 4X and 13, unless otherwise stated
Resistance to high pressure washer		**Pa**	70 x 10^5 (70 bar); distance: 0.1 m Temperature: 55°C
Mechanical shock protection	Conforming to IEC 50102		Non illuminated heads: IK 03
			Illuminated heads: IK 05
Conforming to standards			IEC/EN 60947-1, IEC/EN 60947-5-1, IEC/EN 60947-5-4, JIS C 4520, UL 508, CSA C22-2 n° 14
Product certifications	UL Listed, CSA		Standard single contact blocks with screw clamp terminals: A600; Q600 Double contact blocks with screw clamp terminals: A600; Q600 Light blocks with screw clamp terminals Joystick controllers XD5 PA/ZD5 PA: A600; R300
	UL Recognized, CSA		Standard single contact blocks for plug-in connector: A300; R300 Standard contact blocks for printed circuit board: B300; R300
	BV, RINA, LROS, DNV, GL (pending)		Standard single and double contact blocks with screw clamp terminals:
Terminal identification	Conforming to EN 50005 and EN 50013		

Characteristics of contact or combined contact and signalling functions

Mechanical characteristics

Contact operation	N/C or N/O		Slow break
Positive operation	Conforming to IEC/EN 60947-5-1 appendix K		All functions incorporating a N/C contact are positive opening operation
Operating travel (to change the electrical state)	Pushbutton	**mm**	Changing N/C state: 1.5 Changing N/O state: 2.6 Total travel: 4.3
Operating force	Pushbutton	**N**	Changing N/C state: 3.5 Changing N/O state: 3.8
	Additional contact (extra to change state)	**N**	Single N/C contact: 2 Single N/O contact: 2.3
		N	Double N/C contact: 3.4 Double N/O contact: 5 Double contact N/C + N/O: 4.6
	Emergency stop with N/C + N/O	**N**	Standard push-pull: 45 Trigger action push-pull: 50
		N	Standard turn to release and key release: 40 Trigger action turn to release and key release: 44

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pages 36025/2 to 36027/5

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Control and signalling units Ø 22
Harmony® style 5
Pushbuttons, switches and pilot lights with double insulated bezel

Characteristics of contact or combined contact and signalling functions (continued)

Mechanical characteristics (continued)

Operating torque (to change the electrical state)	Selector switches		**N.m**	N/O contact: 0.14
	Additional contact (extra)		**N.m**	N/O contact: 0.05
Mechanical durability (in millions of operating cycles)	Pushbuttons	Spring return		5
		Double-headed		1
		Push-push to release		0.5
	Selector switches	Non illuminated		3
		Illuminated		1
	Toggle switches			0.5
	Emergency stop pushbuttons			0.3
	Joystick controllers			1
	Standard contact blocks only			5
	Low power switching contact blocks only (dust protected)			0.5
Vibration resistance	Conforming to IEC 60068-2-6		**gn**	Frequency: 2 to 500 Hz: 5
Electric shock resistance	Conforming to IEC 60068-2-27		**gn**	All functions except mushroom head pushbuttons half sine wave acceleration 11 ms: 50 half sine wave acceleration 18 ms: 30
			gn	Mushroom head pushbutton (half sine wave acceleration 11 ms: 10)

Electrical characteristics

Cabling capacity	Conforming to IEC 60947-1	**mm²**	Screw clamp terminals Min: 1 x 0.22 without cable end Max: 2 x 1.5 with cable end Cross headed screw (Pozidrive or Philips type 1), slotted for flat 4 and 5.5 mm screwdriver Tightening torque: 0.8 N.m (max 1.2 N.m)
Contact material	Silver alloy (Ag / Ni)		Standard single and double blocks with screw clamp terminals Blocks for plug-in connector Standard blocks for printed circuit board connection
	Gold flashed (Ag / Ni / Au)		Low power switching contact blocks with screw clamp terminals Low power switching contact blocks for printed circuit board connection
Short-circuit protection	Conforming to IEC/EN 60947-5-1	**A**	Standard single and double blocks with screw clamp terminals: 10 (gG cartridge fuse conforming to IEC 60269-1) Blocks for plug-in connector: 4 (gG cartridge fuse conforming to IEC 60269-1) Standard blocks for printed circuit board connection: 4 (gG cartridge fuse conforming to IEC 60269-1)
Rated thermal current	Conforming to IEC/EN 60947-5-1	**A**	Standard single and double blocks with screw clamp terminals: 10 Blocks for plug-in connector: 10 Standard blocks for printed circuit board connection: 6
Rated insulation voltage	Conforming to IEC 60947-1	**V**	Standard single and double blocks with screw clamp terminals: Ui = 600 degree of pollution 3 Blocks for plug-in connector or Faston connectors: Ui = 250 degree of pollution 3 Standard blocks for printed circuit board connection: Ui = 250 degree of pollution 3
Rated impulse withstand voltage	Conforming to IEC 60947-1	**kV**	Standard single and double blocks with screw clamp terminals: Uimp = 6 Blocks for plug-in connector: Uimp = 4 Standard blocks for printed circuit board connection: Uimp = 4

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Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Characteristics of contact or combined contact and signalling functions (continued)

Electrical characteristics (continued)

Rated operational characteristics Conforming to IEC/EN 60947-5-1	a.c. supply: utilisation category AC-15		Standard single and double blocks with screw clamp terminals: A600: Ue = 600 V and Ie = 1.2 A or Ue = 240 V and Ie = 3 A or Ue = 120 V and Ie = 6 A Blocks for plug-in connector: A300: Ue = 120 V and Ie = 6 A or Ue = 240 V and Ie = 3 A Standard blocks for printed circuit board connection: B300: Ue = 120 V and Ie = 3 A or Ue = 240 V and Ie = 1.5 A
	d.c.supply: utilisation category DC-13		Standard single and double blocks with screw clamp terminals: Q600: Ue = 600 V and Ie = 0.1 A or Ue = 250 V and Ie = 0.27 A or Ue = 125 V and Ie = 0.55 A Joystick controllers XD5 PA/ZD5 PA : R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A Blocks for plug-in connector: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A Standard blocks for printed circuit board connection: R300: Ue = 125 V and Ie = 0.22 A or Ue = 250 V and Ie = 0.1 A
Characteristics of special contact blocks for low power switching		**VA** **A** **V**	P max: 12 I max: 0.1 U max: 24
Electrical durability Conforming to IEC/EN 60947-5-1 appendix C Operating rate 3600 operating cycles/hour. Load factor: 0.5	a.c. supply for 1 million operating cycles utilisation category AC-15		Standard single blocks with screw clamp terminals:
		V **A**	24 4 — 120 3 — 230 2
			Standard double blocks with screw clamp terminals and blocks for plug-in connector:
		V **A**	24 3 — 120 1.5 — 230 1
	d.c. supply for 1 million operating cycles utilisation category DC-13		Standard single blocks with screw clamp terminals:
		V **A**	24 0.5 — 110 0.2
			Standard double blocks with screw clamp terminals and blocks for plug-in connector:
		V **A**	24 0.4 — 110 0.15
Electrical reliability	Failure rate Conforming to IEC/EN 60947-5-4 - In clean environment		Standard blocks: - at 17 V and 5 mA, $\lambda < 10^{-8}$ - at 5 V and 1 mA, $\lambda < 10^{-6}$ Special blocks with gold flashed contacts, for low power switching: - at 5 V and 1 mA, $\lambda < 10^{-7}$
	- In dusty environment		Special blocks with gold flashed contacts and dust protection for low power switching only: - at 5 V and 1 mA, $\lambda < 10^{-7}$

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Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Characteristics of signalling units (pilot lights)

Mechanical characteristics

Vibration resistance	Conforming to IEC 60068-2-6	**gn**	Frequency: 12 to 500 Hz: 5
Electric shock resistance	Conforming to IEC 60068-2-27	**gn**	Half sine wave acceleration 11 ms: 50 Half sine wave acceleration 18 ms: 30

Electrical characteristics

Cabling capacity	Conforming to IEC 60947-1	**mm²**	Screw clamp terminals Min: 1 x 0.22 without cable end (1 x 0.34 for linking) Max: 2 x 1.5 with cable end
Rated insulation voltage	Conforming to IEC 60947-1	**V**	Direct supply pilot light blocks (BA 9s bulb): Ui = 250 degree of pollution 3 Pilot light blocks with integral LED: Ui = 250 degree of pollution 3 Pilot light blocks with transformer: Ui = 600 degree of pollution 3
Rated impulse withstand voltage	Conforming to IEC 60947-1	**kV**	Direct supply pilot light blocks (BA 9s bulb): Uimp = 4 Pilot light blocks with integral LED: Uimp = 4 Pilot light blocks with transformer: Uimp = 6

Specific characteristics of single light blocks with integral LED

Voltage limits	For rated voltage	**V**	12 V: 10 to 15 ⎓; 10.2 to 13.8 ∿ 24 V: 19.2 to 30 ⎓; 21.6 to 26.4 ∿ 24 to 120 V: 20 to 132 ≂ 48 to 120 V: 40 to 132 ∿ 240 V: 195 to 264 ∿
Current consumption	Applicable to all colours	**mA**	Blocks with ≂ 12 V supply: 18 Blocks with ≂ 24 V supply: 18 Blocks with ∿ 120 V supply: 14 Blocks with ∿ 240 V supply: 14
Service life	At rated voltage and at an ambient temperature of 25 °C	**H**	100 000
Surge withstand	Conforming to IEC 61000-4-5	**kV**	1
Resistance to fast transients	Conforming to IEC 61000-4-4	**kV**	2
Resistance to electromagnetic fields	Conforming to IEC 61000-4-3	**V/m**	10
Resistance to electrostatic discharges	Conforming to IEC 61000-2-6	**kV**	8/6
Direct parallel connection across inductive load e.g.: contactor coil or solenoid	Maximum power of load	**VA**	For high power applications (≥ 30 VA), a **ZBZ V●** LED suppressor must be connected across the light block terminals (see page 36018/3)
Electromagnetic emission	Conforming to IEC 55011		Class B

Specific characteristics

Body/fixing collar

Tightening torque of fixing screw		**N.m**	0.8 (max 1.2)

Hour counters and annunciators

Voltage limits	Hour counter and annunciator	**V**	± 10% of the rated voltage
Current consumption	Hour counter	**mA**	XB5 DSB : 7 to 15 XB5 DSG : 8 XB5 DSM : 8
	Annunciator	**mA**	5

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Control and signalling units Ø 22

Harmony® style 5

Pushbuttons and switches with double insulated bezel

Complete units, XB5 A

User assembly of other units
using body + head sub-assemblies:
see pages 36015/2 to 36015/6


563455

XB5 AA31


563456

XB5 AA4322


563457

XB5 AP51


563458

XB5 AL42


563459

XB5 AC21


563560

XB5 AL845

Pushbuttons, spring return (screw clamp terminal connections)

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Marking	Colour of push	Reference	Weight kg
	Flush	1	–	–	Black	**XB5 AA21** (ZB5 AZ101 + ZB5 AA2)	0.037
					Green	**XB5 AA31** (ZB5 AZ101 + ZB5 AA3)	0.037
					Yellow	**XB5 AA51** (ZB5 AZ101 + ZB5 AA5)	0.037
					Blue	**XB5 AA61** (ZB5 AZ101 + ZB5 AA6)	0.037
		–	1	–	Red	**XB5 AA42** (ZB5 AZ102 + ZB5 AA4)	0.037
	Flush	1	–	"I" (white)	Green	**XB5 AA3311** (ZB5 AZ101 + ZB5 AA331)	0.037
	Flush	–	1	"O" (white)	Red	**XB5 AA4322** (ZB5 AZ102 + ZB5 AA432)	0.037
	Flush *(1)*	1	–	↑ (black)	White	**XB5 AA3341** (ZB5 AZ101 + ZB5 AA334)	0.037
	Flush *(1)*	1	–	↑ (white)	Black	**XB5 AA3351** (ZB5 AZ101 + ZB5 AA335)	0.037
	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
	Projecting	–	1	–	Red	**XB5 AL42** (ZB5 AZ102 + ZB5 AL4)	0.038
	Mushroom head Ø 40	1	–	–	Black	**XB5 AC21** (ZB5 AZ101 + ZB5 AC2)	0.062

Double-headed pushbuttons, spring return (screw clamp terminal connections)

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Degree of protection	Reference	Weight kg
	1 flush green push (marked "I") **1 projecting red push** (marked "O")	1	1	IP 40	**XB5 AL845** (ZB5 AZ105 + ZB5 AL8434)	0.049
				IP 66	**XB5 AL945** (ZB5 AZ105 + ZB5 AL9434)	0.054

(1) Product supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.

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Control and signalling units Ø 22

Harmony® style 5

Pushbuttons and switches with double insulated bezel

Complete units, XB5 A

User assembly of other units
using body + head sub-assemblies:
see pages 36015/2 to 36015/6

Emergency stop and mushroom head pushbuttons, Ø 40 (red) (screw clamp terminal connections)


563449

XB5 AS9445


563450

XB5 AT42


563451

XB5 AS542

Shape of head	Type of push	Type of contact N/O	Type of contact N/C	Reference	Weight kg
	Trigger action Push-pull	1	1	**XB5 AT845** (ZB5 AZ105 + ZB5 AT84)	0.076
	Trigger action Turn to release	1	1	**XB5 AS8445** (ZB5 AZ105 + ZB5 AS844)	0.072
	Trigger action Key release (key n° 455)	1	1	**XB5 AS9445** (ZB5 AZ105 + ZB5 AS944)	0.112
	Push-pull	–	1	**XB5 AT42** (ZB5 AZ102 + ZB5 AT4)	0.065
	Turn to release	–	1	**XB5 AS542** (ZB5 AZ102 + ZB5 AS54)	0.060
	Key release (key n° 455)	–	1	**XB5 AS142** (ZB5 AZ102 + ZB5 AS14)	0.075

Selector switches and key switches


563452

XB5 AD33


563453

XB5 AJ33


563454

XB5 AG33

Shape of head	Type of operator	Type of contact N/O	Type of contact N/C	Number and type of positions (1)		Reference	Weight kg
	Standard handle, black	1	–	2 - stay put		**XB5 AD21** (ZB5 AZ101 + ZB5 AD2)	0.043
		2	–	3 - stay put		**XB5 AD33** (ZB5 AZ103 + ZB5 AD3)	0.052
				3 - spring return to centre		**XB5 AD53** (ZB5 AZ103 + ZB5 AD5)	0.052
	Long handle, black	1	–	2 - stay put		**XB5 AJ21** (ZB5 AZ101 + ZB5 AJ2)	0.043
		2	–	3 - stay put		**XB5 AJ33** (ZB5 AZ103 + ZB5 AJ3)	0.053
				3 - spring return to centre		**XB5 AJ53** (ZB5 AZ103 + ZB5 AJ5)	0.053
	Key switch (n° 455)	1	–	2 - stay put		**XB5 AG21** (ZB5 AZ101 + ZB5 AG2)	0.066
						XB5 AG41 (ZB5 AZ101 + ZB5 AG4)	0.066
				2 - spring return to left		**XB5 AG61** (ZB5 AZ101 + ZB5 AG6)	0.066
		2	–	3 - stay put		**XB5 AG03** (ZB5 AZ103 + ZB5 AG0)	0.076
						XB5 AG33 (ZB5 AZ103 + ZB5 AG3)	0.076

(1) The symbol ⚷ indicates key withdrawal position(s).

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Control and signalling units Ø 22

Harmony® style 5

Pilot lights with double insulated bezel

Complete units, XB5 A

User assembly of other units
using body + head sub-assemblies:
see pages 36016/2 and 36016/3

814388



XB5 AVB1

Pilot lights with integral LED (screw clamp terminal connections)

Shape of head	Supply voltage V	Colour	Reference	Weight kg
With integral LED				
Protected LED	≂ 24	White	**XB5 AVB1** (ZB5 AVB1 + ZB5 AV013)	0.038
		Green	**XB5 AVB3** (ZB5 AVB3 + ZB5 AV033)	0.038
		Red	**XB5 AVB4** (ZB5 AVB4 + ZB5 AV043)	0.038
		Yellow	**XB5 AVB5** (ZB5 AVB5 + ZB5 AV053)	0.038
		Blue	**XB5 AVB6** (ZB5 AVB6 + ZB5 AV063)	0.038
	∿ 48…120	White	**XB5 AVG1** (ZB5 AVG1 + ZB5 AV013)	0.038
		Green	**XB5 AVG3** (ZB5 AVG3 + ZB5 AV033)	0.038
		Red	**XB5 AVG4** (ZB5 AVG4 + ZB5 AV043)	0.038
		Yellow	**XB5 AVG5** (ZB5 AVG5 + ZB5 AV053)	0.038
		Blue	**XB5 AVG6** (ZB5 AVG6 + ZB5 AV063)	0.038
	∿ 230…240	White	**XB5 AVM1** (ZB5 AVM1 + ZB5 AV013)	0.038
		Green	**XB5 AVM3** (ZB5 AVM3 + ZB5 AV033)	0.038
		Red	**XB5 AVM4** (ZB5 AVM4 + ZB5 AV043)	0.038
		Yellow	**XB5 AVM5** (ZB5 AVM5 + ZB5 AV053)	0.038
		Blue	**XB5 AVM6** (ZB5 AVM6 + ZB5 AV063)	0.038

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Control and signalling units Ø 22

Harmony® style 5

Pilot lights with double insulated bezel

Complete units, XB5 A

User assembly of other units
using body + head sub-assemblies:
see pages 36016/2 to 36016/3

814392



XB5 AV63

814391



XB5 AV34

Pilot lights for BA 9s bulb (screw clamp terminal connections)

Shape of head	Supply voltage V	Colour	Reference	Weight kg
Direct supply, for BA 9s bulb, U ≤ 250 V, 2.4 W (bulb not included)				
	≤ 250	White	**XB5 AV61** (ZB5 AV6 + ZB5 AV01)	0.037
		Green	**XB5 AV63** (ZB5 AV6 + ZB5 AV03)	0.037
		Red	**XB5 AV64** (ZB5 AV6 + ZB5 AV04)	0.037
		Yellow	**XB5 AV65** (ZB5 AV6 + ZB5 AV05)	0.037
Via integral transformer with 1.2 VA, 6 V secondary. BA 9s incandescent bulb (bulb included)				
	∿ 110…120 50/60 Hz	White	**XB5 AV31** (ZB5 AV3 + ZB5 AV01)	0.109
		Green	**XB5 AV33** (ZB5 AV3 + ZB5 AV03)	0.109
		Red	**XB5 AV34** (ZB5 AV3 + ZB5 AV04)	0.109
		Yellow	**XB5 AV35** (ZB5 AV3 + ZB5 AV05)	0.109
	∿ 230 - 50 Hz ∿ 220…240 - 60 Hz	White	**XB5 AV41** (ZB5 AV4 + ZB5 AV01)	0.110
		Green	**XB5 AV43** (ZB5 AV4 + ZB5 AV03)	0.110
		Red	**XB5 AV44** (ZB5 AV4 + ZB5 AV04)	0.110
		Yellow	**XB5 AV45** (ZB5 AV4 + ZB5 AV05)	0.110

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Control and signalling units Ø 22

Harmony® style 5

Illuminated pushbuttons and switches with double insulated bezel

Complete units, XB5 A

User assembly of other units
using body + head sub-assemblies:
see pages 36017/2 to 36017/7

814396



XB5 AW31B5

814397



XB5 AW3465

Illuminated pushbuttons, spring return, flush push

Shape of head	Description	Type of contact N/O	Type of contact N/C	Supply voltage V	Colour of push	Reference	Weight kg
Screw clamp terminal connections							
	Integral LED Protected LED	1	1	≂ 24	White	**XB5 AW31B5** (ZB5 AW0B15 + ZB5 AW313)	0.056
					Green	**XB5 AW33B5** (ZB5 AW0B35 + ZB5 AW333)	0.056
					Red	**XB5 AW34B5** (ZB5 AW0B45 + ZB5 AW343)	0.056
					Yellow	**XB5 AW35B5** (ZB5 AW0B55 + ZB5 AW353)	0.056
					Blue	**XB5 AW36B5** (ZB5 AW0B65 + ZB5 AW363)	0.056
				~ 48…120	White	**XB5 AW31G5** (ZB5 AW0G15 + ZB5 AW313)	0.056
					Green	**XB5 AW33G5** (ZB5 AW0G35 + ZB5 AW333)	0.056
					Red	**XB5 AW34G5** (ZB5 AW0G45 + ZB5 AW343)	0.056
					Yellow	**XB5 AW35G5** (ZB5 AW0G55 + ZB5 AW353)	0.056
					Blue	**XB5 AW36G5** (ZB5 AW0G65 + ZB5 AW363)	0.056
				~ 230…240	White	**XB5 AW31M5** (ZB5 AW0M15 + ZB5 AW313)	0.056
					Green	**XB5 AW33M5** (ZB5 AW0M35 + ZB5 AW333)	0.056
					Red	**XB5 AW34M5** (ZB5 AW0M45 + ZB5 AW343)	0.056
					Yellow	**XB5 AW35M5** (ZB5 AW0M55 + ZB5 AW353)	0.056
					Blue	**XB5 AW36M5** (ZB5 AW0M65 + ZB5 AW363)	0.056
	Direct supply for BA 9s bulb, 2.4 W max. **(not included)**	1	1	≤ 250	White	**XB5 AW3165** (ZB5 AW065 + ZB5 AW31)	0.057
					Green	**XB5 AW3365** (ZB5 AW065 + ZB5 AW33)	0.057
					Red	**XB5 AW3465** (ZB5 AW065 + ZB5 AW34)	0.057
					Yellow	**XB5 AW3565** (ZB5 AW065 + ZB5 AW35)	0.057

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Control and signalling units Ø 22

Harmony® style 5

Illuminated pushbuttons and switches with double insulated bezel

Complete units, XB5 A

User assembly of other units using body + head sub-assemblies: see pages 36017/2 to 36017/9

563461



XB5 AW3335

Illuminated pushbuttons, spring return, flush push *(continued)*

Shape of head	Description	Type of contact N/O	Type of contact N/C	Supply voltage V	Colour of push	Reference	Weight kg
Screw clamp terminal connections							
	Via integral transformer 6 V secondary, BA 9s incandescent bulb **(included)**	1	1	∼ 110…120 50/60 Hz	White	**XB5 AW3135** (ZB5 AW035 + ZB5 AW31)	0.128
					Green	**XB5 AW3335** (ZB5 AW035 + ZB5 AW33)	0.128
					Red	**XB5 AW3435** (ZB5 AW035 + ZB5 AW34)	0.128
					Yellow	**XB5 AW3535** (ZB5 AW035 + ZB5 AW35)	0.128
				∼ 230 50 Hz ∼ 220…240 60 Hz	White	**XB5 AW3145** (ZB5 AW045 + ZB5 AW31)	0.129
					Green	**XB5 AW3345** (ZB5 AW045 + ZB5 AW33)	0.129
					Red	**XB5 AW3445** (ZB5 AW045 + ZB5 AW34)	0.129
					Yellow	**XB5 AW3545** (ZB5 AW045 + ZB5 AW35)	0.129

814405



XB5 AW84B5

Double-headed pushbuttons, spring return, with integral LED pilot light (IP 40) *(1)*

Shape of head	Description	Type of contact N/O	Type of contact N/C	Supply voltage V	Colour of push	Reference	Weight kg
Screw clamp terminal connections							
Protected LED	**1 flush green push** (marked “I”) **1 yellow pilot light** **1 red projecting push** (marked “O”)	1	1	⎓ 24	–	**XB5 AW84B5** (ZB5 AW0B55 + ZB5 AW843743)	0.060
				∼ 48…120	–	**XB5 AW84G5** (ZB5 AW0G55 + ZB5 AW843743)	0.060
				∼ 230…240	–	**XB5 AW84M5** (ZB5 AW0M55 + ZB5 AW843743)	0.060

814406



XB5 AK124B5

Illuminated selector switches with integral LED (2-position stay put)

Shape of head	Type of operator	Type of contact N/O	Type of contact N/C	Supply voltage V	Colour of handle	Reference	Weight kg
Screw clamp terminal connections							
Protected LED	**Standard handle**	1	1	⎓ 24	Green	**XB5 AK123B5** (ZB5 AW0B35 + ZB5 AK1233)	0.059
					Red	**XB5 AK124B5** (ZB5 AW0B45 + ZB5 AK1243)	0.059
					Yellow	**XB5 AK125B5** (ZB5 AW0B55 + ZB5 AK1253)	0.059
				∼ 48…120	Green	**XB5 AK123G5** (ZB5 AW0G35 + ZB5 AK1233)	0.059
					Red	**XB5 AK124G5** (ZB5 AW0G45 + ZB5 AK1243)	0.059
					Yellow	**XB5 AK125G5** (ZB5 AW0G55 + ZB5 AK1253)	0.059
				∼ 230…240	Green	**XB5 AK123M5** (ZB5 AW0M35 + ZB5 AK1233)	0.059
					Red	**XB5 AK124M5** (ZB5 AW0M45 + ZB5 AK1243)	0.059
					Yellow	**XB5 AK125M5** (ZB5 AW0M55 + ZB5 AK1253)	0.059

*(1) For IP 66 degree of protection, fit a clear sealing boot: **ZBW 008** or **ZBW 008A**. See page 36018/15.*

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : bodies

To combine with heads:
see pages 36015/3 to 36015/9

814411



ZB5 AZ101

814409



ZB5 AZ102

814408



ZB5 AZ1014

814410



ZB5 AZ1024

Complete bodies (fixing collar + single contact block)

Description	Type of contact N/O	Type of contact N/C	Reference	Weight kg
Screw clamp terminal connections	1	–	**ZB5 AZ101**	0.021
	–	1	**ZB5 AZ102**	0.021
	2	–	**ZB5 AZ103**	0.030
	–	2	**ZB5 AZ104**	0.030
	1	1	**ZB5 AZ105**	0.030
	1	2	**ZB5 AZ141**	0.040
Plug-in connector *(1)*	1	–	**ZB5 AZ1014**	0.018
	–	1	**ZB5 AZ1024**	0.018
	2	–	**ZB5 AZ1034**	0.026
	–	2	**ZB5 AZ1044**	0.026
	1	1	**ZB5 AZ1054**	0.026
	1	2	**ZB5 AZ1414**	0.036

Contact blocks

Description	
Separate contact blocks	See page 36018/12

(1) Connecting cables and connector for plug-in connector contact blocks: see page 36018/4.

Other versions Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : heads

To combine with bodies:
see page 36015/2

814416



ZB5 AA0

814417



ZB5 AA5

814418



ZB5 AL3

814419



ZB5 AP1

103545_1



ZB5 AP2S

814420



ZB5 CA2

814421



ZB5 CA5

Heads for spring return pushbuttons - unmarked

Shape of head	Type of push	Colour of cap	Reference	Weight kg
	**Without cap** *(1)*	–	**ZB5 AA0**	0.022
	Flush, with set of 6 coloured caps	6 colours *(2)*	**ZB5 AA9**	0.027
	**Flush**	White	**ZB5 AA1**	0.018
		Black	**ZB5 AA2**	0.018
		Green	**ZB5 AA3**	0.018
		Red	**ZB5 AA4**	0.018
		Yellow	**ZB5 AA5**	0.018
		Blue	**ZB5 AA6**	0.018
		Grey	**ZB5 AA8**	0.018
	**Flush with transparent cap, for insertion of legend** *(3)*	White	**ZB5 AA18**	0.018
		Green	**ZB5 AA38**	0.018
		Red	**ZB5 AA48**	0.018
		Yellow	**ZB5 AA58**	0.018
		Blue	**ZB5 AA68**	0.018
	**Projecting**	White	**ZB5 AL1**	0.019
		Black	**ZB5 AL2**	0.019
		Green	**ZB5 AL3**	0.019
		Red	**ZB5 AL4**	0.019
		Yellow	**ZB5 AL5**	0.019
		Blue	**ZB5 AL6**	0.019
	**Booted (clear silicone)** Colour of push unobscured	White	**ZB5 AP1**	0.021
		Black	**ZB5 AP2**	0.021
		Green	**ZB5 AP3**	0.021
		Red	**ZB5 AP4**	0.021
		Yellow	**ZB5 AP5**	0.021
		Blue	**ZB5 AP6**	0.021
	**Booted (coloured silicone)** Can be replaced without dismantling the head. Compatible with legend holder	White	**ZB5 AP1S**	0.014
		Black	**ZB5 AP2S**	0.014
		Green	**ZB5 AP3S**	0.014
		Red	**ZB5 AP4S**	0.014
		Yellow	**ZB5 AP5S**	0.014
		Blue	**ZB5 AP6S**	0.014
	**Booted (clear silicone), for insertion of legend** *(3)* (colour of push unobscured)	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
	**Flush** (high bezel)	White	**ZB5 AA14**	0.020
		Black	**ZB5 AA24**	0.020
		Green	**ZB5 AA34**	0.020
		Red	**ZB5 AA44**	0.020
		Yellow	**ZB5 AA54**	0.020
		Blue	**ZB5 AA64**	0.020
	**Recessed** (high guard)	White	**ZB5 AA16**	0.020
		Black	**ZB5 AA26**	0.020
		Green	**ZB5 AA36**	0.020
		Red	**ZB5 AA46**	0.020
		Yellow	**ZB5 AA56**	0.020
		Blue	**ZB5 AA66**	0.020
	**Without cap** *(1)*	–	**ZB5 CA0**	0.022
	Flush	White	**ZB5 CA1**	0.019
		Black	**ZB5 CA2**	0.019
		Green	**ZB5 CA3**	0.019
		Red	**ZB5 CA4**	0.019
		Yellow	**ZB5 CA5**	0.019
		Blue	**ZB5 CA6**	0.019
	**Projecting**	White	**ZB5 CL1**	0.021
		Black	**ZB5 CL2**	0.021
		Green	**ZB5 CL3**	0.021
		Red	**ZB5 CL4**	0.021
		Yellow	**ZB5 CL5**	0.021
		Blue	**ZB5 CL6**	0.021

(1) Cap to be ordered separately, see page 36018/6.
(2) Head supplied with 6 different coloured caps (white, black, green red, yellow, blue).
(3) For legend ordering information, see page 36018/12.

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : heads

To combine with bodies:
see page 36015/2

814428



ZB5 AA331

814429



ZB5 AA432

814430



ZB5 AL232

Heads for spring return pushbuttons - marked

Shape of head	Type of push	Marking		Colour of cap	Reference	Weight kg
		Text	Colour			
	**Flush** *(1)*	I	White	Green	**ZB5 AA331**	0.018
			Black	White	**ZB5 AA131**	0.018
		II	White	Green	**ZB5 AA336**	0.018
			Black	White	**ZB5 AA136**	0.018
		START	White	Green	**ZB5 AA333**	0.018
			Black	White	**ZB5 AA133**	0.018
		ON	White	Green	**ZB5 AA341**	0.018
			Black	White	**ZB5 AA141**	0.018
		MARCHE	White	Green	**ZB5 AA342**	0.018
			Black	White	**ZB5 AA142**	0.018
			White	Black	**ZB5 AA245**	0.018
			Black	White	**ZB5 AA145**	0.018
		O	White	Red	**ZB5 AA432**	0.018
				Black	**ZB5 AA232**	0.018
		ARRET	White	Red	**ZB5 AA433**	0.018
				Black	**ZB5 AA233**	0.018
		STOP	White	Red	**ZB5 AA434**	0.018
				Black	**ZB5 AA234**	0.018
		OFF	White	Red	**ZB5 AA435**	0.018
				Black	**ZB5 AA235**	0.018
		UP	Black	White	**ZB5 AA343**	0.018
		DOWN	White	Black	**ZB5 AA344**	0.018
		↑	White	Black	**ZB5 AA335**	0.018
			Black	White	**ZB5 AA334**	0.018
	**Projecting** *(1)*	O	White	Red	**ZB5 AL432**	0.019
				Black	**ZB5 AL232**	0.019
		ARRET	White	Red	**ZB5 AL433**	0.019
				Black	**ZB5 AL233**	0.019
		STOP	White	Red	**ZB5 AL434**	0.019
				Black	**ZB5 AL234**	0.019
		OFF	White	Red	**ZB5 AL435**	0.019
				Black	**ZB5 AL235**	0.019
	**Flush** *(1)*	I	White	Green	**ZB5 CA331**	0.019
		O	White	Red	**ZB5 CA432**	0.019
		+	White	Black	**ZB5 CA2934**	0.019
		↑	White	Black	**ZB5 CA2912**	0.019
		R	White	Blue	**ZB5 CA6939**	0.019

Heads for lockable "push-turn" pushbuttons

Shape of head	Key type	Locking	Key withdrawal	Reference	Weight kg
	**Key n° 4A185**	Both positions	Both positions	**ZB5 AFDA**	0.050
		Actuated position	Actuated position	**ZB5 AFDB**	0.050
		Rest position	Rest position	**ZB5 AFDC**	0.050
		Actuated position	Both positions	**ZB5 AFDD**	0.050
	Key LU1	Both positions	Both positions	**ZB5 AFDE01**	0.050
	Key LU2	Both positions	Both positions	**ZB5 AFDE02**	0.050
	Key LU3	Both positions	Both positions	**ZB5 AFDE03**	0.050
	Key LU4	Both positions	Both positions	**ZB5 AFDE04**	0.050
	Key LU5	Both positions	Both positions	**ZB5 AFDE05**	0.050
	Key LU6	Both positions	Both positions	**ZB5 AFDE06**	0.050
	Key LU7	Both positions	Both positions	**ZB5 AFDE07**	0.050
	Key LU8	Both positions	Both positions	**ZB5 AFDE08**	0.050
	Key LU9	Both positions	Both positions	**ZB5 AFDE09**	0.050
	Key LU10	Both positions	Both positions	**ZB5 AFDE10**	0.050
	Key LU11	Both positions	Both positions	**ZB5 AFDE11**	0.050
	Key LU12	Both positions	Both positions	**ZB5 AFDE12**	0.050
	Key LU13	Both positions	Both positions	**ZB5 AFDE13**	0.050
	Key LU14	Both positions	Both positions	**ZB5 AFDE14**	0.050
	Key LU15	Both positions	Both positions	**ZB5 AFDE15**	0.050

(1) Push supplied with cap not clipped-in, allowing orientation through 360° in 90° steps.

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Control and signalling units Ø 22

Harmony® style 5

Pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : heads

To combine with bodies:
see page 36015/2

Heads for "push-turn" pushbuttons with knurled knob

Shape of head	Description	Marking	Reference	Weight kg
	Knurled knob \without cap	–	**ZB5 AF**	0.027
	Knurled knob with marked cap	↑ (white on black background)	**ZB5 AF351**	0.030

814440



ZB5 AL8334

Heads for double-headed, spring return pushbuttons

Shape of head	Description	Colour of pushes	Degree of protection	Reference	Weight kg
Without function marking on pushes					
	2 flush pushes	Green	IP 40 *(1)*	**ZB5 AA8134**	0.022
		Red	IP 66	**ZB5 AA9134**	0.027
		White	IP 40 *(1)*	**ZB5 AA8112**	0.022
		Black	IP 66	**ZB5 AA9112**	0.027
	1 flush push **1 projecting push**	Green	IP 40 *(1)*	**ZB5 AL8334**	0.021
		Red	IP 66	**ZB5 AL9334**	0.026
		White	IP 40 *(1)*	**ZB5 AL8312**	0.021
		Black	IP 66	**ZB5 AL9312**	0.026
With function marking on pushes					
	2 flush pushes (marked “I”) (marked “O”)	Green	IP 40 *(1)*	**ZB5 AA8234**	0.022
		Red	IP 66	**ZB5 AA9234**	0.027
		White	IP 40 *(1)*	**ZB5 AA8212**	0.022
		Black	IP 66	**ZB5 AA9212**	0.027
	1 flush push **1 projecting push**	Green	IP 40 *(1)*	**ZB5 AL8434**	0.021
		Red	IP 66	**ZB5 AL9434**	0.026
		White	IP 40 *(1)*	**ZB5 AL8412**	0.021
		Black	IP 66	**ZB5 AL9412**	0.026

814442



ZB5 AL9334

Heads for "push-push to release" pushbuttons *(2)*

Shape of head	Type of push	Colour of push	Reference	Weight kg
	Without cap *(3)*	–	**ZB5 AH0**	0,018
	Flush	White	**ZB5 AH01**	0,018
		Black	**ZB5 AH02**	0,018
		Green	**ZB5 AH03**	0,018
		Red	**ZB5 AH04**	0,018
		Yellow	**ZB5 AH05**	0,018
		Blue	**ZB5 AH06**	0,018
	Projecting	White	**ZB5 AH1**	0,018
		Black	**ZB5 AH2**	0,018
		Green	**ZB5 AH3**	0,018
		Red	**ZB5 AH4**	0,018
		Yellow	**ZB5 AH5**	0,018
		Blue	**ZB5 AH6**	0,018
	Without cap *(3)*	–	**ZB5 CH0**	0,020
	Flush	White	**ZB5 CH01**	0,020
		Black	**ZB5 CH02**	0,020
		Green	**ZB5 CH03**	0,020
		Red	**ZB5 CH04**	0,020
		Yellow	**ZB5 CH05**	0,020
		Blue	**ZB5 CH06**	0,020

814441



ZB5 AL8434

814439



ZB5 AH04

(1) NEMA type 1.
(2) Maximum of 1 row of 3 contact blocks on associated body/fixing collar sub-assembly.
(3) Coloured cap to be ordered separately: see page 36018/6.

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : heads

To combine with bodies:
see page 36015/2

Mushroom heads for spring return pushbuttons

Shape of head	Diameter of push mm	Colour of push	Reference	Weight kg
 *ZB5 AC24*	**30**	Black	**ZB5 AC24**	0.027
		Green	**ZB5 AC34**	0.027
		Red	**ZB5 AC44**	0.027
		Yellow	**ZB5 AC54**	0.027
		Blue	**ZB5 AC64**	0.027
 *ZB5 AC2*	**40**	Black	**ZB5 AC2**	0.046
		Green	**ZB5 AC3**	0.046
		Red	**ZB5 AC4**	0.046
		Yellow	**ZB5 AC5**	0.046
		Blue	**ZB5 AC6**	0.046
 *ZB5 AR4*	**60**	Black	**ZB5 AR2**	0.065
		Green	**ZB5 AR3**	0.065
		Red	**ZB5 AR4**	0.065
		Yellow	**ZB5 AR5**	0.065
		Blue	**ZB5 AR6**	0.065
 *ZB5 AR216*	**60** Hemispherical	Black	**ZB5 AR216**	0.048
		Green	**ZB5 AR316**	0.048
		Red	**ZB5 AR416**	0.048
		Yellow	**ZB5 AR516**	0.048
		Blue	**ZB5 AR616**	0.048

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Pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : heads

To combine with bodies:
see page 36015/2

550285



ZB5 AS844

530708



ZB5 AS934

550287



ZB5 AT4

550288



ZB5 AS64

Mushroom heads for latching pushbuttons

(Emergency stop: colour red)

Shape of head	Type of push	Diameter of push mm	Colour of push	Reference	Weight kg
	**Trigger action Push-pull** *(1)*	40	Red	**ZB5 AT84**	0.050
	**Trigger action Turn to release** *(1)*	30	Red	**ZB5 AS834**	0.042
		40	Red	**ZB5 AS844**	0.046
	**Trigger action Key release (key n° 455)** *(1) (3)*	30	Red	**ZB5 AS934**	0.068
		40	Red	**ZB5 AS944** *(2)*	0.071
		60	Red	**ZB5 AS934**	0.092
	**Trigger action Key release (key n° 4A185)** *(1)*	40	Red	**ZB5 AS944D**	0.071
	**Push-pull**	30	Black	**ZB5 AT24**	0.044
		40	Black	**ZB5 AT2**	0.049
			Red	**ZB5 AT4**	0.049
		60	Black	**ZB5 AX2**	0.067
			Red	**ZB5 AX4**	0.067
	**Turn to release**	30	Black	**ZB5 AS42**	0.040
			Red	**ZB5 AS44**	0.040
		40	Black	**ZB5 AS52**	0.044
			Red	**ZB5 AS54**	0.044
			Yellow	**ZB5 AS55**	0.044
		60	Black	**ZB5 AS62**	0.064
			Red	**ZB5 AS64**	0.064
	**Key release (key n° 455)** *(3)* (2 keys included with head)	30	Black	**ZB5 AS72**	0.040
			Red	**ZB5 AS74**	0.040
		40	Black	**ZB5 AS12**	0.044
			Red	**ZB5 AS14** *(2)*	0.044
		60	Black	**ZB5 AS22**	0.064
			Red	**ZB5 AS24**	0.064
	**Key release (key n° 4A185)**	40	Red	**ZB5 AS14D**	0.044

(1) Maximum number of contacts fitted to the associated body: 4.
Example : 4 single contact blocks, 2 double contact blocks, or 2 single contact blocks + 1 double contact block. See page 36018/2

(2) 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.*
*Example : For a Ø 40 mushroom head for a trigger action, latching pushbutton, with release by key n° 421E, the reference becomes: **ZB5 AS94412**.*

(3) For specific keys with other numbers, please consult your Regional Sales Office.

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Control and signalling units Ø 22

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Pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : heads

To combine with bodies:
see page 36015/2

814463



ZB5 AD●

Heads for selector switches *(1)*

Shape of head	Type of operator	Number and type of positions	Reference	Weight kg
	Standard handle, black	2 - stay put	**ZB5 AD2**	0.024
		2 - stay put with actuation of the centre contact	**ZB5 AD2M**	0.024
		2 - spring return from right to left	**ZB5 AD4**	0.024
		2 - spring return from right to left with actuation of centre contact	**ZB5 AD4M**	0.024
		3 - stay put	**ZB5 AD3**	0.024
		3 - spring return to centre	**ZB5 AD5**	0.024
		3 - spring return from left to centre	**ZB5 AD7**	0.024
		3 - spring return from right to centre	**ZB5 AD8**	0.024
	Standard handle, white	2 - stay put	**ZB5 AD201**	0.024
		2 - spring return from right to left	**ZB5 AD401**	0.024
		3 - stay put	**ZB5 AD301**	0.024
		3 - spring return to centre	**ZB5 AD501**	0.024
		3 - spring return from left to centre	**ZB5 AD701**	0.024
		3 - spring return from right to centre	**ZB5 AD801**	0.024
	Standard handle, green	2 - stay put	**ZB5 AD203**	0.024
		2 - spring return from right to left	**ZB5 AD403**	0.024
		3 stay put	**ZB5 AD303**	0.024
		3 - spring return to centre	**ZB5 AD503**	0.024
		3 - spring return from left to centre	**ZB5 AD703**	0.024
		3 - spring return from right to centre	**ZB5 AD803**	0.024

(1) Can only be used for actuation of end row (side) mounted contacts.

Control and signalling units Ø 22

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Pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : heads

To combine with bodies:
see page 36015/2


814473

ZB5 AD●●

Heads for selector switches (1) (continued)

Shape of head	Type of operator	Number and type of positions	Reference	Weight kg
	Standard handle, red	2 - stay put	**ZB5 AD204**	0.024
		2 - spring return from right to left	**ZB5 AD404**	0.024
		3 stay put	**ZB5 AD304**	0.024
		3 - spring return to centre	**ZB5 AD504**	0.024
		3 - spring return from left to centre	**ZB5 AD704**	0.024
		3 - spring return from right to centre	**ZB5 AD804**	0.024
	Standard handle, yellow	2 - stay put	**ZB5 AD205**	0.024
		2 - spring return from right to left	**ZB5 AD405**	0.024
		3 stay put	**ZB5 AD305**	0.024
		3 - spring return to centre	**ZB5 AD505**	0.024
		3 - spring return from left to centre	**ZB5 AD705**	0.024
		3 - spring return from right to centre	**ZB5 AD805**	0.024
	Standard handle, blue	2 - stay put	**ZB5 AD206**	0.024
		2 - spring return rom right to left	**ZB5 AD406**	0.024
		3 stay put	**ZB5 AD306**	0.024
		3 - spring return to centre	**ZB5 AD506**	0.024
		3 - spring return from left to centre	**ZB5 AD706**	0.024
		3 - spring return from right to centre	**ZB5 AD806**	0.024


814472

ZB5 AJ3

Shape of head	Type of operator	Number and type of positions	Reference	Weight kg
	Long handle, black	2 - stay put	**ZB5 AJ2**	0.025
		2 - stay put with actuation of the centre contact	**ZB5 AJ2M**	0.025
		2 - spring return from right to left	**ZB5 AJ4**	0.025
		2 - spring return from right to left with actuation of centre contact	**ZB5 AJ4M**	0.025
		3 - stay put	**ZB5 AJ3**	0.025
		3 - spring return to centre	**ZB5 AJ5**	0.025
		3 - spring return from left to centre	**ZB5 AJ7**	0.025
		3 - spring return from right to centre	**ZB5 AJ8**	0.025

(1) Can only be used for actuation of end row (side) mounted contacts.

General :
pages 36025/2 to 36027/5

Characteristics :
pages 36011/2 to 36011/5

Dimensions :
pages 36021/2 to 36021/9

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : heads

To combine with bodies:
see page 36015/2

814496



ZB5 AD●●

814517



ZB5 AG●

Heads for selector switches *(1) (continued)*

Shape of head	Type of operator	Number and type of positions *(2)*		Reference	Weight kg
	**Knurled knob, black**	2 - stay put		**ZB5 AD29**	0.027
		2 - spring return from right to left		**ZB5 AD49**	0.027
		3 - stay put		**ZB5 AD39**	0.027
		3 - spring return to centre		**ZB5 AD59**	0.027
		3 - spring return from left to centre		**ZB5 AD79**	0.027
		3 - spring return from right to centre		**ZB5 AD89**	0.027
	**Key switch (key n° 455)** *(4)*	2 - stay put		**ZB5 AG2** *(3)*	0.050
				**ZB5 AG4** *(3)*	0.050
		2 - stay put with actuation of the centre contact		**ZB5 AG2M**	0.050
				**ZB5 AG4M**	0.050
		2 - spring return from right to left		**ZB5 AG6** *(3)*	0.050
		2 - spring return from right to left with actuation of centre contact		**ZB5 AG6M**	0.050
		3 - stay put		**ZB5 AG0** *(3)*	0.050
				**ZB5 AG3** (3)	0.050
				**ZB5 AG5** *(3)*	0.050
				**ZB5 AG9** *(3)*	0.050
				**ZB5 AG09** *(3)*	0.050
		3 - spring return from left to centre		**ZB5 AG1** *(3)*	0.050
		2 - spring return to centre		**ZB5 AG7** *(3)*	0.050
		3 - spring return from right to centre		**ZB5 AG8** *(3)*	0.050
				**ZB5 AG08** *(3)*	0.050

(1) Can only be used for actuation of end row (side) mounted contacts.
(2) The symbol ⚷ indicates key withdrawal position(s).
(3) 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.*
Example :
*For a switch head with key n° 421E, 2-position stay put with key withdrawal from the left-hand position, the reference becomes : **ZB5 AG212**.*
(4) For specific keys with other numbers, please consult your Regional Sales Office.

General :
pages 36025/2 to 36027/5

Characteristics :
pages 36011/2 to 36011/5

Dimensions :
pages 36021/2 to 36021/9

Control and signalling units Ø 22
Harmony® style 5
Pushbuttons and switches with double insulated bezel
Sub-assemblies ZB5 A : heads

To combine with bodies:
see page 36015/2

814496



ZB5 AG●●

Heads for selector switches *(1) (continued)*

Shape of head	Type of operator	Number and type of positions *(2)*		Reference	Weight kg
	Key switch (key n° 8D1)	2 - stay put		**ZB5 AG2D**	0.050
				ZB5 AG02D	0.050
				ZB5 AG4D	0.050
		2 - spring return from right to left		**ZB5 AG6D**	0.050
		3 - stay put		**ZB5 AG0D**	0.050
				ZB5 AG3D	0.050
				ZB5 AG5D	0.050
				ZB5 AG9D	0.050
				ZB5 AG09D	0.050
				ZB5 AG03D	0.050
				ZB5 AG04D	0.050
		3 - spring return from left to centre		**ZB5 AG06D**	0.050
				ZB5 AG1D	0.050
				ZB5 AG07D	0.050
		3 - spring return from right to centre		**ZB5 AG8D**	0.050
				ZB5 AG08D	0.050
				ZB5 AG05D	0.050
		2 - spring return to centre		**ZB5 AG7D**	0.050

Heads for toggle switches

Shape of head	Description	Lever	Type of position	Reference	Weight kg
	2-position	Black	Stay put	**ZB5 AD28**	0.023
			Spring return	**ZB5 AD48**	0.023
		White	Stay put	**ZB5 AD2801**	0.023
		Red	Stay put	**ZB5 AD2804**	0.023
		Blue	Stay put	**ZB5 AD2806**	0.023

814497



ZB5 AD28

(1) Can only be used for actuation of end row (side) mounted contacts.
(2) The symbol ⚷ indicates key withdrawal position(s).

Control and signalling units Ø 22

Harmony® style 5

Specific function units, with double insulated bezel

563091



XB5 AA

Manual overload reset buttons (travel 10 mm) *(1)*

Shape of head	Actuation distance mm	Marking	Colour	Reference	Weight kg
Without cap *(2)*					
	17…120	–	–	**XB5 AA801**	0.027
	120…257	–	–	**XB5 AA802**	0.040
With flush push					
	17…120	Without	Green	**XB5 AA831**	0.027
			Red	**XB5 AA841**	0.027
			Blue	**XB5 AA861**	0.027
		O	Red	**XB5 AA84101**	0.027
		R	Blue	**XB5 AA86102**	0.027
	120…257	Without	Green	**XB5 AA832**	0.040
			Red	**XB5 AA842**	0.040
			Blue	**XB5 AA862**	0.040
		O	Red	**XB5 AA84201**	0.040
		R	Blue	**XB5 AA86202**	0.040
With projecting push					
	17…120	O	Red	**XB5 AL84101**	0.027
	120…257	O	Red	**XB5 AL84201**	0.040

Heads + mounting base for potentiometer

Shape of head	Description	For use on	Reference	Weight kg
	For potentiometer with shaft length 44 to 50 mm (potentiometer not included)	Ø 6 mm shaft	**ZB5 AD912**	0.032
		Ø 6.35 mm shaft	**ZB5 AD922**	0.032

(1) NEMA type 13.
(2) Coloured cap to be ordered separately: see page 36018/6.

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

Control and signalling units Ø 22
Harmony® style 5
Specific function units, with double insulated bezel

563161



XD5 PA12

814667



ZD5 PA103

814666



ZD5 PA203

563162



ZD5 PA12

814663



XB5 DS●

814664



XB5 KS●

814665



XB5 DT1S

Joystick controllers (54 mm long operating shaft) *(1)*

Complete joystick controllers (screw clamp terminal connections)

Description	Operation	Spring return to zero position	Reference	Weight kg
2 direction	1 notch 1 N/O contact per direction	Without	**XD5 PA12**	0.060
		With	**XD5 PA22**	0.060
4 direction	1 notch 1 N/O contact per direction	Without	**XD5 PA14**	0.077
		With	**XD5 PA24**	0.077

Sub-assemblies for joystick controllers

Description	For use on		Reference	Weight kg
Complete body/contact assemblies (screw clamp terminal connections)	2 direction		**ZD5 PA103**	0.049
	4 direction		**ZD5 PA203**	0.058
Complete head assemblies with operating shaft	2 direction, stay put		**ZD5 PA12**	0.022
	2 direction, spring return to zero position		**ZD5 PA22**	0.022
	4 direction, stay put		**ZD5 PA14**	0.022
	4 direction, spring return to zero position		**ZD5 PA24**	0.022
Legends 30 x 48 mm for engraving	2 direction	Black one side Red reverse	**ZBG 2201**	0.001
		White one side Yellow reverse	**ZBG 2401**	0.001
Legends 48 x 48 mm for engraving	4 direction	Black one side Red reverse	**ZBG 4201**	0.002
		White one side Yellow reverse	**ZBG 4401**	0.002

Hour counters *(2)*

Characteristics	Supply voltage V	Reference	Weight kg
Indication 0…9999.9	⎓ 12…24 - 50/60 Hz	**XB5 DSB**	0.045
	∿ 120 - 60 Hz	**XB5 DSG**	0.045
	∿ 230…240 -50 Hz	**XB5 DSM**	0.045

Annunciators (IP 40 NEMA 1) *(2)*

Characteristics	Supply voltage V	Reference	Weight kg
85 db buzzer, basic: 4 kHz with continuous or intermittent operation (connection diagram: see page 36021/8)	⎓ 24 - 50/60 Hz	**XB5 KSB**	0.035
	∿ 120 - 50/60 Hz	**XB5 KSG**	0.035
	∿ 230…240 - 50 Hz	**XB5 KSM**	0.035

Fuse carrier *(2)*

Description	For use with	Reference	Weight kg
Fuse carrier	5 x 20 mm fuse 6.3 A - 250 V	**XB5 DT1S**	0.022

(1) Cannot be used with standard contact blocks ZBE 101 (single) or ZBE 20● (double).
(2) Replacement parts: fixing nut ZB5 AZ901, anti-rotation plate: ZB5 AZ902, tightening key: ZB5 AZ905.

Other versions Joystick controllers and complete body/contact assemblies for joystick controllers with Faston connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

Control and signalling units Ø 22

Harmony® style 5

Illuminated pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : bodies

To combine with heads for integral LED:
see pages 36017/7 to 36017/9

814532



ZB5 AW0●●1

814533



ZB5 AW0●●3

Complete bodies (fixing collar + single contact block + light block with integral LED)

Light source	Supply voltage V	Type of contact (1) N/O	Type of contact (1) N/C	Colour of light source	Reference	Weight kg
Screw clamp terminal connections						
Integral LED Protected LED	⎓ 24	1	–	White	**ZB5 AW0B11**	0.032
				Green	**ZB5 AW0B31**	0.032
				Red	**ZB5 AW0B41**	0.032
				Yellow	**ZB5 AW0B51**	0.032
				Blue	**ZB5 AW0B61**	0.032
		–	1	White	**ZB5 AW0B12**	0.032
				Green	**ZB5 AW0B32**	0.032
				Red	**ZB5 AW0B42**	0.032
				Yellow	**ZB5 AW0B52**	0.032
				Blue	**ZB5 AW0B62**	0.032
		2	–	White	**ZB5 AW0B13**	0.042
				Green	**ZB5 AW0B33**	0.042
				Red	**ZB5 AW0B43**	0.042
				Yellow	**ZB5 AW0B53**	0.042
				Blue	**ZB5 AW0B63**	0.042
		1	1	White	**ZB5 AW0B15**	0.042
				Green	**ZB5 AW0B35**	0.042
				Red	**ZB5 AW0B45**	0.042
				Yellow	**ZB5 AW0B55**	0.042
				Blue	**ZB5 AW0B65**	0.042
	∿ 48…120	1	–	White	**ZB5 AW0G11**	0.032
				Green	**ZB5 AW0G31**	0.032
				Red	**ZB5 AW0G41**	0.032
				Yellow	**ZB5 AW0G51**	0.032
				Blue	**ZB5 AW0G61**	0.032
		–	1	White	**ZB5 AW0G12**	0.032
				Green	**ZB5 AW0G32**	0.032
				Red	**ZB5 AW0G42**	0.032
				Yellow	**ZB5 AW0G52**	0.032
				Blue	**ZB5 AW0G62**	0.032

(1) Can be fitted with additional contact blocks: see page 36018/2.

Other versions Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

Control and signalling units Ø 22

Harmony® style 5

Illuminated pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : bodies

To combine with heads for integral LED:
see pages 36017/7 to 36017/9

814536



ZB5 AW0●●3

814537



ZB5 AW0●●1

Complete bodies (fixing collar + single contact block + light block with integral LED)

Light source	Supply voltage V	Type of contact (1) N/O	Type of contact (1) N/C	Colour of light source	Reference	Weight kg
Screw clamp terminal connections *(continued)*						
Integral LED Protected LED	∿ 48…120	2	–	White	**ZB5 AW0G13**	0.042
				Green	**ZB5 AW0G33**	0.042
				Red	**ZB5 AW0G43**	0.042
				Yellow	**ZB5 AW0G53**	0.042
				Blue	**ZB5 AW0G63**	0.042
		1	1	White	**ZB5 AW0G15**	0.042
				Green	**ZB5 AW0G35**	0.042
				Red	**ZB5 AW0G45**	0.042
				Yellow	**ZB5 AW0G55**	0.042
				Blue	**ZB5 AW0G65**	0.042
	∿ 230…240	1	–	White	**ZB5 AW0B11**	0.032
				Green	**ZB5 AW0M31**	0.032
				Red	**ZB5 AW0M41**	0.032
				Yellow	**ZB5 AW0M51**	0.032
				Blue	**ZB5 AW0M61**	0.032
		–	1	White	**ZB5 AW0M12**	0.032
				Green	**ZB5 AW0M32**	0.032
				Red	**ZB5 AW0M42**	0.032
				Yellow	**ZB5 AW0M52**	0.032
				Blue	**ZB5 AW0M62**	0.032
		2	–	White	**ZB5 AW0M13**	0.042
				Green	**ZB5 AW0M33**	0.042
				Red	**ZB5 AW0M43**	0.042
				Yellow	**ZB5 AW0M53**	0.042
				Blue	**ZB5 AW0M63**	0.042
		1	1	White	**ZB5 AW0M15**	0.042
				Green	**ZB5 AW0M35**	0.042
				Red	**ZB5 AW0M45**	0.042
				Yellow	**ZB5 AW0M55**	0.042
				Blue	**ZB5 AW0M65**	0.042

(1) Can be fitted with additional contact blocks : see page 36018/2.

Other versions Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

Control and signalling units Ø 22

Harmony® style 5

Illuminated pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : bodies

To combine with heads for integral LED:
see pages 36017/7 to 36017/9

814541



ZB5 AW0●●24

814542



ZB5 AW0●●34

Complete bodies (fixing collar + single contact block + light block with integral LED) *(continued)*

Light source	Supply voltage	Type of contact *(1)* N/O	Type of contact *(1)* N/C	Colour of light source	Reference	Weight
	V					kg
Plug-in connector *(2)*						
Integral LED Protected LED	≂ 24	1	–	White	**ZB5 AW0B114**	0.028
				Green	**ZB5 AW0B314**	0.028
				Red	**ZB5 AW0B414**	0.028
				Yellow	**ZB5 AW0B514**	0.028
				Blue	**ZB5 AW0B614**	0.028
		–	1	White	**ZB5 AW0B124**	0.028
				Green	**ZB5 AW0B324**	0.028
				Red	**ZB5 AW0B424**	0.028
				Yellow	**ZB5 AW0B524**	0.028
				Blue	**ZB5 AW0B624**	0.028
		2	–	White	**ZB5 AW0B134**	0.035
				Green	**ZB5 AW0B334**	0.035
				Red	**ZB5 AW0B434**	0.035
				Yellow	**ZB5 AW0B534**	0.035
				Blue	**ZB5 AW0B634**	0.035
		1	1	White	**ZB5 AW0B154**	0.035
				Green	**ZB5 AW0B354**	0.035
				Red	**ZB5 AW0B454**	0.035
				Yellow	**ZB5 AW0B554**	0.035
				Blue	**ZB5 AW0B654**	0.035
	≂ 48…120	1	–	White	**ZB5 AW0G114**	0.028
				Green	**ZB5 AW0G314**	0.028
				Red	**ZB5 AW0G414**	0.028
				Yellow	**ZB5 AW0G514**	0.028
				Blue	**ZB5 AW0G614**	0.028
		–	1	White	**ZB5 AW0G124**	0.028
				Green	**ZB5 AW0G324**	0.028
				Red	**ZB5 AW0G424**	0.028
				Yellow	**ZB5 AW0G524**	0.028
				Blue	**ZB5 AW0G624**	0.028

(1) Can be fitted with additional contact blocks: see page 36018/4.
(2) Connecting cables and connector for plug-in connector electrical blocks: see page 36018/4.

Other versions Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

Control and signalling units Ø 22

Harmony® style 5

Illuminated pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : bodies

To combine with heads for integral LED:
see pages 36017/7 to 36017/9

Complete bodies (fixing collar + single contact block + light block with integral LED) *(continued)*

Light source	Supply voltage V	Type of contact (1) N/O	Type of contact (1) N/C	Colour of light source	Reference	Weight kg
Plug-in connector *(2)* *(continued)*						
Integral LED	~ 48…120	2	–	White	**ZB5 AW0G134**	0.035
				Green	**ZB5 AW0G334**	0.035
				Red	**ZB5 AW0G434**	0.035
				Yellow	**ZB5 AW0G534**	0.035
				Blue	**ZB5 AW0G634**	0.035
		1	1	White	**ZB5 AW0G154**	0.035
				Green	**ZB5 AW0G354**	0.035
				Red	**ZB5 AW0G454**	0.035
				Yellow	**ZB5 AW0G554**	0.035
				Blue	**ZB5 AW0G654**	0.035
	~ 230…240	1	–	White	**ZB5 AW0M114**	0.028
				Green	**ZB5 AW0M314**	0.028
				Red	**ZB5 AW0M414**	0.028
				Yellow	**ZB5 AW0M514**	0.028
				Blue	**ZB5 AW0M614**	0.028
		–	1	White	**ZB5 AW0M124**	0.028
				Green	**ZB5 AW0M324**	0.028
				Red	**ZB5 AW0M424**	0.028
				Yellow	**ZB5 AW0M524**	0.028
				Blue	**ZB5 AW0M624**	0.028
		2	–	White	**ZB5 AW0M134**	0.035
				Green	**ZB5 AW0M334**	0.035
				Red	**ZB5 AW0M434**	0.035
				Yellow	**ZB5 AW0M534**	0.035
				Blue	**ZB5 AW0M634**	0.035
		1	1	White	**ZB5 AW0M154**	0.035
				Green	**ZB5 AW0M354**	0.035
				Red	**ZB5 AW0M454**	0.035
				Yellow	**ZB5 AW0M554**	0.035
				Blue	**ZB5 AW0M654**	0.035

814545



ZB5 AW0●●34

814546



ZB5 AW0●●24

(1) Can be fitted with additional contact blocks: see page 36018/4.
(2) Connecting cables and connector for plug-in connector electrical blocks: see page 36018/4.

Other versions Complete bodies with Faston connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

Control and signalling units Ø 22

Harmony® style 5

Illuminated pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : bodies

To combine with heads for BA 9s bulbs: see pages 36017/7 to 36017/9

814549



ZB5 AW065

563168



ZB5 AW035

Complete bodies (fixing collar + single contact block + light block for BA 9s bulb, incandescent, neon or LED)

Description	Light source	Supply voltage V	Type of contact (1) N/O	Type of contact (1) N/C	Colour of light source	Reference	Weight kg
Screw clamp terminal connections							
Direct supply	BA 9s bulb, 2.4 W max. Not included (2)	≤ 250	1	–	–	**ZB5 AW061**	0.031
			–	1	–	**ZB5 AW062**	0.031
			2	–	–	**ZB5 AW063**	0.041
			1	1	–	**ZB5 AW065**	0.041
Via integral transformer 1.2 VA, 6 V secondary	BA 9s incandescent bulb, included	∿ 110…120 50/60 Hz	1	–	–	**ZB5 AW031**	0.110
			1	1	–	**ZB5 AW035**	0.119
		∿ 230 - 50 Hz	1	–	–	**ZB5 AW041**	0.110
		∿ 220…240 - 60 Hz	1	1	–	**ZB5 AW045**	0.119
		∿ 400 - 50 Hz	1	–	–	**ZB5 AW051**	0.110
			1	1	–	**ZB5 AW055**	0.119
	BA 9s base fitting LED included	∿ 110…120 50/60 Hz	1	1	White	**ZB5 AW03D15**	0.119
					Green	**ZB5 AW03D35**	0.119
					Red	**ZB5 AW03D45**	0.119
					Yellow	**ZB5 AW03D55**	0.119
					Blue	**ZB5 AW03D65**	0.119
		∿ 230 - 50 Hz ∿ 220…240 - 60 Hz	1	1	White	**ZB5 AW04D15**	0.119
					Green	**ZB5 AW04D35**	0.119
					Red	**ZB5 AW04D45**	0.119
					Yellow	**ZB5 AW04D55**	0.119
					Blue	**ZB5 AW04D65**	0.119
		∿ 400 50/60 Hz	1	1	White	**ZB5 AW05D15**	0.120
					Green	**ZB5 AW05D35**	0.120
					Red	**ZB5 AW05D45**	0.120
					Yellow	**ZB5 AW05D55**	0.120
					Blue	**ZB5 AW05D65**	0.120

(1) Can be fitted with additional contact blocks: see page 36018/2.
(2) Bulb to be ordered separately: see page 36018/14.

Other versions

Complete bodies with integral transformer incorporating Faston connector terminals (6.35 or 2 x 2.8).
Please consult your Regional Sales Office.

Control and signalling units Ø 22

Harmony® style 5

Illuminated pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : heads

To combine with bodies:
see pages 36017/2 to 36017/6


814556

ZB5 AW313


814557

ZB5 AW363


814555

ZB5 AW143


814558

ZB5 CW113


814559

ZB5 AW33

Heads for spring return illuminated pushbuttons

Shape of head	Type of push	Colour	Reference	Weight kg
Plain lens **Only for use with bodies comprising a light source with integral LED**				
	Flush	White	**ZB5 AW313**	0.017
		Green	**ZB5 AW333**	0.017
		Red	**ZB5 AW343**	0.017
		Yellow	**ZB5 AW353**	0.017
		Blue	**ZB5 AW363**	0.017
	Flush with illuminated ring	White	**ZB5 AW913**	0.016
		Green	**ZB5 AW933**	0.016
		Red	**ZB5 AW943**	0.016
		Yellow	**ZB5 AW953**	0.016
		Blue	**ZB5 AW963**	0.016
	Flush with clear boot	White	**ZB5 AW513**	0.019
		Green	**ZB5 AW533**	0.019
		Red	**ZB5 AW543**	0.019
		Yellow	**ZB5 AW553**	0.019
		Blue	**ZB5 AW563**	0.019
	Flush for insertion of legend	White	**ZB5 AA18**	0.018
		Green	**ZB5 AA38**	0.018
		Red	**ZB5 AA48**	0.018
		Yellow	**ZB5 AA58**	0.018
		Blue	**ZB5 AA68**	0.018
	Projecting	White	**ZB5 AW113**	0.018
		Green	**ZB5 AW133**	0.018
		Red	**ZB5 AW143**	0.018
		Yellow	**ZB5 AW153**	0.018
		Blue	**ZB5 AW163**	0.018
	Flush (legend can be inserted)	White	**ZB5 CW313**	0.023
		Green	**ZB5 CW333**	0.023
		Red	**ZB5 CW343**	0.023
		Yellow	**ZB5 CW353**	0.023
		Blue	**ZB5 CW363**	0.023
	Projecting (legend can be inserted)	White	**ZB5 CW113**	0.024
		Green	**ZB5 CW133**	0.024
		Red	**ZB5 CW143**	0.024
		Yellow	**ZB5 CW153**	0.024
		Blue	**ZB5 CW163**	0.024
Grooved lens *(For use in bright ambient light conditions - outdoors in sunlight, for example)* **Only for use with bodies comprising a light source with integral LED**				
	Flush	White	**ZB5 AW313S**	0.017
		Green	**ZB5 AW333S**	0.017
		Red	**ZB5 AW343S**	0.017
		Yellow	**ZB5 AW353S**	0.017
		Blue	**ZB5 AW363S**	0.017
Plain lens *(1)*				
	Flush	White	**ZB5 AW31**	0.018
		Green	**ZB5 AW33**	0.018
		Red	**ZB5 AW34**	0.018
		Yellow	**ZB5 AW35**	0.018
		Blue	**ZB5 AW36**	0.018
		Clear	**ZB5 AW37**	0.018
	Projecting	White	**ZB5 AW11**	0.017
		Green	**ZB5 AW13**	0.017
		Red	**ZB5 AW14**	0.017
		Yellow	**ZB5 AW15**	0.017
		Blue	**ZB5 AW16**	0.017
		Clear	**ZB5 AW17**	0.017
Grooved lens *(1) (For use in bright ambient light conditions - outdoors in sunlight, for example)*				
	Flush	White	**ZB5 AW31S**	0.018
		Green	**ZB5 AW33S**	0.018
		Red	**ZB5 AW34S**	0.018
		Yellow	**ZB5 AW35S**	0.018
		Blue	**ZB5 AW36S**	0.018
		Clear	**ZB5 AW37S**	0.018

(1) Only for use with bodies comprising a light source with BA 9s bulb (incandescent, neon or LED).

Control and signalling units Ø 22

Harmony® style 5

Illuminated pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : heads

To combine with bodies:
see pages 36017/2 to 36017/6

Heads for illuminated "push-push to release" pushbuttons *(1)*

Shape of head	Type of push	Colour of lens	Reference	Weight kg
Only for use with bodies comprising a light source with integral LED			Protected LED	
	**Flush**	White	**ZB5 AH013**	0.017
		Green	**ZB5 AH033**	0.017
		Red	**ZB5 AH043**	0.017
		Yellow	**ZB5 AH053**	0.017
		Blue	**ZB5 AH063**	0.017
	**Projecting**	White	**ZB5 AH13**	0.017
		Green	**ZB5 AH33**	0.017
		Red	**ZB5 AH43**	0.017
		Yellow	**ZB5 AH53**	0.017
		Blue	**ZB5 AH63**	0.017
	**Flush**	White	**ZB5 CH313**	0.018
		Green	**ZB5 CH333**	0.018
		Red	**ZB5 CH343**	0.018
		Yellow	**ZB5 CH353**	0.018
		Blue	**ZB5 CH363**	0.018

Heads with pilot light for double-headed, spring return pushbuttons (IP 40) *(2)*

Shape of head	Description	Colour of pushes	Colour of pilot light	Reference	Weight kg
Only for use with bodies comprising a light source with integral LED (without function marking on push)				Protected LED	
	**1 flush push** **1 central pilot light** **1 flush push**	Black Red	Clear *(3)*	**ZB5 AW812743**	0.022
		Green Red	Clear *(3)*	**ZB5 AW813743**	0.022
		White Black	Clear *(3)*	**ZB5 AW811723**	0.022
	**1 flush push** **1 central pilot light** **1 projecting push**	Black Red	Clear *(3)*	**ZB5 AW812743**	0.021
		Green Red	Clear *(3)*	**ZB5 AW833743**	0.021
		White Black	Clear *(3)*	**ZB5 AW831723**	0.021
Only for use with bodies comprising a light source with integral LED (with function marking on push)				Protected LED	
	**1 flush push** (marked "I") **1 central pilot light** **1 flush push** (marked "O")	Black Red	Clear *(3)*	**ZB5 AW822743**	0.022
		Green Red	Clear *(3)*	**ZB5 AW823743**	0.022
		White Black	Clear *(3)*	**ZB5 AW821723**	0.021
	**1 flush push** (marked "I") **1 central pilot light** **1 projecting push** (marked "O")	Black Red	Clear *(3)*	**ZB5 AW842743**	0.021
		Green Red	Clear *(3)*	**ZB5 AW843743**	0.021
		White Black	Clear *(3)*	**ZB5 AW841723**	0.021

814567



ZB5 AW833743

814568



ZB5 AW823743

814569



ZB5 AW843743

(1) Maximum of 1 row of 2 contact blocks on associated body/fixing collar sub-assembly.
(2) NEMA type 1, for a head with IP 66 degree of protection (NEMA type 4X) fit a clear sealing boot ***ZBW 008****: see page 36018/15.*
(3) Colour of centrally positioned pilot light determined by the colour of the LED incorporated in the body assembly.

Control and signalling units Ø 22

Harmony® style 5

Illuminated pushbuttons and switches with double insulated bezel

Sub-assemblies ZB5 A : head

To combine with bodies:
see pages 36017/2 to 36017/6

103547



ZB5 AW743

Heads for Ø 40 latching mushroom head pushbuttons

Shape of head	Type of push	Colour of push	Reference	Weight kg
	**Turn to release**	White	**ZB5 AW713**	0,022
		Green	**ZB5 AW733**	0.022
		Red	**ZB5 AW743**	0.022
		Yellow	**ZB5 AW753**	0.022
		Blue	**ZB5 AW763**	0.022

Heads for illuminated selector switches with standard handle *(1)*

Shape of head	Number and type of positions	Colour of handle	Reference	Weight kg
Only for use with bodies comprising a light source with integral LED			Protected LED	
	**2 - stay put** 	White	**ZB5 AK1213**	0.021
		Green	**ZB5 AK1233**	0.021
		Red	**ZB5 AK1243**	0.021
		Yellow	**ZB5 AK1253**	0.021
		Blue	**ZB5 AK1263**	0.021
	2 - spring return from right to left 	White	**ZB5 AK1413**	0.021
		Green	**ZB5 AK1433**	0.021
		Red	**ZB5 AK1443**	0.021
		Yellow	**ZB5 AK1453**	0.021
		Blue	**ZB5 AK1463**	0.021
	3 - stay put 	White	**ZB5 AK1313**	0.021
		Green	**ZB5 AK1333**	0.021
		Red	**ZB5 AK1343**	0.021
		Yellow	**ZB5 AK1353**	0.021
		Blue	**ZB5 AK1363**	0.021
	3 - spring return to centre 	White	**ZB5 AK1513**	0.021
		Green	**ZB5 AK1533**	0.021
		Red	**ZB5 AK1543**	0.021
		Yellow	**ZB5 AK1553**	0.021
		Blue	**ZB5 AK1563**	0.021
	3 - spring return from right to centre 	White	**ZB5 AK1813**	0.021
		Green	**ZB5 AK1833**	0.021
		Red	**ZB5 AK1843**	0.021
		Yellow	**ZB5 AK1853**	0.021
		Blue	**ZB5 AK1863**	0.021
	3 - spring return from left to centre 	White	**ZB5 AK1713**	0.021
		Green	**ZB5 AK1733**	0.021
		Red	**ZB5 AK1743**	0.021
		Yellow	**ZB5 AK1753**	0.021
		Blue	**ZB5 AK1763**	0.021

814578



ZB5 AK1213

814579



ZB5 AK1463

(1) NEMA type 13.

General :
pages 36025/2 to 36027/5

Characteristics :
pages 36011/2 to 36011/5

Dimensions :
pages 36021/2 to 36021/9

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Separate components and accessories : electrical blocks


814584

ZBE 101


814585

ZBE 102


814586

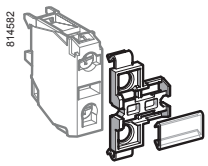
ZBE 203


814587

ZBE 204


814588

ZB5 AZ009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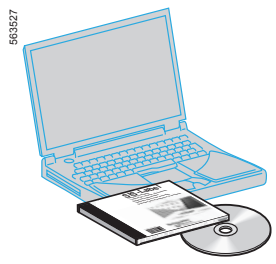
ZBZ 001


563527

XBY 2U

Contact blocks with screw clamp terminal connections *(1)*

Description	Type of contact N/O	Type of contact N/C	Sold in lots of	Unit reference	Weight kg
Standard single contact blocks	1	–	5	**ZBE 101**	0.011
	–	1	5	**ZBE 102**	0.011
Standard double contact blocks	2	–	5	**ZBE 203**	0.020
	–	2	5	**ZBE 204**	0.020
	1	1	5	**ZBE 205**	0.020
Special contact blocks for low power switching with gold flashed contacts	1	–	5	**ZBE 1016**	0.012
	–	1	5	**ZBE 1026**	0.012
Special contact blocks for low power switching with gold flashed contacts and dust protection *(2)*	1	–	5	**ZBE 1016P**	0.012
	–	1	5	**ZBE 1026P**	0.012

Body/fixing collar

For use with	Sold in lots of	Unit reference	Weight kg
Electrical blocks (contact or light)	10	**ZB5 AZ009**	0.006

Clip-on legend holders for electrical blocks with screw clamp terminal connections

Identification of an XB5 A control or signalling unit	10	**ZBZ 001**	0.001

Sheet of 50 blank legends

Legend holder ZBZ 001	10	**ZBY 001**	0.023

"SIS Label" labelling software (for legends **ZBY 001**)

Legend design for English, French, German, Italian, Spanish	1	**XBY 2U**	0.100

(1) The contact blocks enable variable composition of body sub-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 contact blocks occupy 2 rows).

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

Other versions Contact blocks with Faston connector terminals (6.35 or 2 x 2.8). Please consult your Regional Sales Office.

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Separate components and accessories : electrical blocks


814592

ZBV B●

Light blocks with screw clamp terminals

Description	Supply voltage V	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED) Protected LED	≂ 12	White	5	**ZBV J1** *(1)*	0.017
		Green	5	**ZBV J3** *(1)*	0.017
		Red	5	**ZBV J4** *(1)*	0.017
		Yellow	5	**ZBV J5** *(1)*	0.017
		Blue	5	**ZBV J6**	0.017
	≂ 24	White	5	**ZBV B1** *(1)*	0.017
		Green	5	**ZBV B3** *(1)*	0.017
		Red	5	**ZBV B4** *(1)*	0.017
		Yellow	5	**ZBV B5** *(1)*	0.017
		Blue	5	**ZBV B6** *(1)*	0.017
	≂ 24…120	White	5	**ZBV BG1**	0.017
		Green	5	**ZBV BG3**	0.017
		Red	5	**ZBV BG4**	0.017
		Yellow	5	**ZBV BG5**	0.017
		Blue	5	**ZBV BG6**	0.017
	∿ 48…120	White	5	**ZBV G1** *(1)*	0.017
		Green	5	**ZBV G3** *(1)*	0.017
		Red	5	**ZBV G4** *(1)*	0.017
		Yellow	5	**ZBV G5** *(1)*	0.017
		Blue	5	**ZBV G6** *(1)*	0.017
	∿ 230…240	White	5	**ZBV M1** *(1)*	0.017
		Green	5	**ZBV M3** *(1)*	0.017
		Red	5	**ZBV M4** *(1)*	0.017
		Yellow	5	**ZBV M5** *(1)*	0.017
		Blue	5	**ZBV M6** *(1)*	0.017
Direct supply for BA 9s bulb, 2.4 W max. **Not included** *(1)*	≤ 250	–	5	**ZBV 6**	0.016


814594

ZBZ V●

LED suppressors

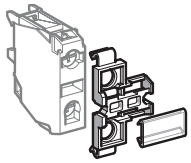
For use with	Supply voltage V	Reference	Weight kg
Light blocks with integral LED fitted with screw clamp terminal connections	∿ 120	**ZBZ VG**	0.010
	∿ 230	**ZBZ VM**	0.010


814593

ZB5 AZ009

Body/fixing collar

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	10	**ZB5 AZ009**	0.006


814589

ZBZ 001

Clip-on legend holders for electrical blocks with screw clamp terminal connections

Identification of an XB5 A control or signalling unit	10	**ZBZ 001**	0.001

Sheet of 50 blank legends

Legend holder ZBZ 001	10	**ZBY 001**	0.023

"SIS Label" labelling software (for legends ZBY 001)

Legend design for English, French, German, Italian, Spanish	1	**XBY 2U**	0.100


563527

XBY 2U

*(1) To order a "high luminosity" version, add the suffix **S** to the reference (example: **ZBV B5S** for a yellow, 24 V, high luminosity light block).*

(2) Bulb to be ordered separately: see page 36018/14.

Other versions Light blocks with Faston connector terminals (6.35 or 2 x 2.8). Please consult your Regional Sales Office.

General : pages 36025/2 to 36027/5 | Characteristics : pages 36011/2 to 36011/5 | Dimensions : pages 36021/2 to 36021/9

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Separate components and accessories : electrical blocks

814597



ZBE 1014

814598



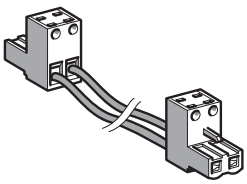
ZBE 1024

814599



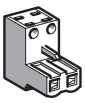
ZBV B●4

563159



APE 1C2250

563160



APE 1PAD21

814600



ZB5 AZ009

Contact blocks for plug-in connector

Description	Type of contact N/O	Type of contact N/C	Sold in lots of	Unit reference	Weight kg
Standard contact blocks	1	–	5	**ZBE 1014**	0.009
	–	1	5	**ZBE 1024**	0.009

Light blocks for plug-in connector

Description	Supply voltage V	Colour of light source	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED) Protected LED	≂ 24	White	5	**ZBV B14**	0.016
		Green	5	**ZBV B34**	0.016
		Red	5	**ZBV B44**	0.016
		Yellow	5	**ZBV B54**	0.016
		Blue	5	**ZBV B64**	0.016
	∿ 48…120	White	5	**ZBV G14**	0.016
		Green	5	**ZBV G34**	0.016
		Red	5	**ZBV G44**	0.016
		Yellow	5	**ZBV G54**	0.016
		Blue	5	**ZBV G64**	0.016
	∿ 230…240	White	5	**ZBV M14**	0.016
		Green	5	**ZBV M34**	0.016
		Red	5	**ZBV M44**	0.016
		Yellow	5	**ZBV M54**	0.016
		Blue	5	**ZBV M64**	0.016

Connecting cables and connector

Description	Number of connectors	Wire c.s.a. mm²	Length mm	Sold in lots of	Unit reference	Weight kg
Cables with connectors 2-pin, 5.08 mm pitch	1	0.75	500	8	**APE 1C2150**	0.120
	2	0.75	500	8	**APE 1C2250**	0.180
Self-stripping connector 2-pin, 5.08 mm pitch	–	0.75	–	16	**APE 1PAD21**	0.080
Spring terminal connector 2-pin, 5.08 mm pitch	–	0.2 to 2.5	–	10	**APE 1PRE21**	0.003

Body/fixing collar

For use with	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	10	**ZB5 AZ009**	0.006

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Separate components and accessories : electrical blocks

814605



ZBE 701

814606



ZBE 702

Contact blocks for printed circuit board connection *(1)*

Description	Type of contact N/O	Type of contact N/C	Sold in lots of	Unit reference	Weight kg
Standard contact blocks	1	–	10	**ZBE 701**	0.002
	–	1	10	**ZBE 702**	0.002
Special contact blocks for low power switching (with gold flashed contacts and dust protection)	1	–	10	**ZBE 7016**	0.003
	–	1	10	**ZBE 7026**	0.003

814607



ZBV B●7

Light blocks for printed circuit board connection *(1)*

Description	Supply voltage V	Colour of LED	Sold in lots of	Unit reference	Weight kg
Integral LED (to combine with heads for integral LED) Protected LED	≂ 24	White	5	**ZBV B17**	0.004
		Green	5	**ZBV B37**	0.004
		Red	5	**ZBV B47**	0.004
		Yellow	5	**ZBV B57**	0.004
		Blue	5	**ZBV B67**	0.004

Adaptor (socket) for printed circuit board connection

For use with	Thickness of printed circuit board mm	Sold in lots of	Unit reference	Weight kg
Electrical block (contact or light)	1.6 ± 0.2	10	**ZBZ 010**	0.008
	2.2 ± 0.2	10	**ZBZ 011**	0.008
	3.2 ± 0.2	10	**ZBZ 012**	0.008

540199



ZBZ 01●

Accessories specifically for printed circuit board mounting *(1)*

Description	For use with	Sold in lots of	Unit reference	Weight kg
Fixing collar/pillar	Printed circuit board support	10	**ZB5 AZ079**	0.003
Fixing screw for printed circuit board	Fixing collar/pillar ZB5 AZ079	10	**ZBZ 006**	0.011

814608



ZB5 AZ079

(1) For details of support drilling and of printed circuit board: see page 36021/9.
Must be used in conjunction with adaptor (socket) ***ZBZ 010****.*

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Separate components and accessories : for heads

814611



ZBA ●

Pushbutton caps - unmarked

For use with	Type of push	Colour	Sold in lots of	Unit reference	Weight kg
ZB5 AA0 circular pushbutton heads supplied without cap	Flush	White	10	**ZBA 1**	0.001
		Black	10	**ZBA 2**	0.001
		Green	10	**ZBA 3**	0.001
		Red	10	**ZBA 4**	0.001
		Yellow	10	**ZBA 5**	0.001
		Blue	10	**ZBA 6**	0.001
		6 colours *(1)*	1	**ZBA 9**	0.006
	Projecting	White	10	**ZBL 1**	0.001
		Black	10	**ZBL 2**	0.001
		Green	10	**ZBL 3**	0.001
		Red	10	**ZBL 4**	0.001
		Yellow	10	**ZBL 5**	0.001
		Blue	10	**ZBL 6**	0.001
		6 colours *(1)*	1	**ZBL 9**	0.006

814612



ZBL ●

Pushbutton caps - marked *(3)* (sold in lots of 10)

For use with	Type of push	Marking		Colour of cap	Unit reference	Weight kg
		Text	Colour			
ZB5 AA0 circular pushbutton heads supplied without cap	Flush	I *(2)*	White	Green	**ZBA 331**	0.001
			Black	White	**ZBA 131**	0.001
		II	White	Green	**ZBA 336**	0.001
			Black	White	**ZBA 136**	0.001
		III	White	Green	**ZBA 337**	0.001
			Black	White	**ZBA 137**	0.001
		IV	White	Green	**ZBA 338**	0.001
			Black	White	**ZBL 138**	0.001
		START *(2)*	White	Green	**ZBA 333**	0.001
			Black	White	**ZBA 133**	0.001
		ON	White	Green	**ZBA 341**	0.001
			Black	White	**ZBA 141**	0.001
		MARCHE	White	Green	**ZBA 342**	0.001
			Black	White	**ZBA 142**	0.001
		UP *(2)*	Black	White	**ZBA 343**	0.001
		DOWN *(2)*	White	Black	**ZBA 344**	0.001
		⏉ *(2)*	White	Black	**ZBA 245**	0.001
			Black	White	**ZBA 145**	0.001
		⬆	White	Black	**ZBA 335**	0.001
			Black	White	**ZBA 334**	0.001
		O *(2)*	White	Red	**ZBA 432**	0.001
				Black	**ZBA 232**	0.001
		ARRET	White	Red	**ZBA 433**	0.001
				Black	**ZBA 233**	0.001
		STOP *(2)*	White	Red	**ZBA 434**	0.001
				Black	**ZBA 234**	0.001
		OFF	White	Red	**ZBA 435**	0.001
				Black	**ZBA 235**	0.001
		⚠	White	Green	**ZBA 346**	0.001
		R *(2)*	White	Blue	**ZBA 639**	0.001
		+	White	Black	**ZBA 2934**	0.001
		–	White	Black	**ZBA 2935**	0.001

814613



ZBA ●33

(1) Set of 6 different coloured caps: white, black, green, red, yellow, blue.
(2) Double injection moulded marking.
(3) Can be clipped-in at 90° steps, through 360°.

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

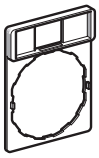
Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

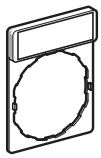
Separate components and accessories : for heads

814614



ZBZ 32

814615



ZBY ●101

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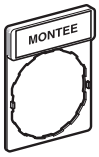


ZBY 2107

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends *(1)*

Description	Legend		Sold in lots of	Unit reference	Weight kg
	Colour	Marking			
Without legend	–	–	10	**ZBZ 32**	0,001
With blank legend (for engraving)	Black or red background	–	10	**ZBY 2101**	0.002
	White or yellow background	–	10	**ZBY 4101**	0.002
With 8 x 27 mm legend (with International marking)	Black or red background *(2)*	O (black background)	1	**ZBY 2146**	0.002
		O (red background)	1	**ZBY 2931**	0.002
		I	1	**ZBY 2147**	0.002
		II	1	**ZBY 2148**	0.002
		O-I	1	**ZBY 2178**	0.002
		I-II	1	**ZBY 2179**	0.002
		I-O-II	1	**ZBY 2186**	0.002
		AUTO	1	**ZBY 2115**	0.002
		STOP	1	**ZBY 2304**	0.002
With 8 x 27 mm legend (with French language marking)	Black or red background *(2)*	ARRET (red background)	1	**ZBY 2104**	0.002
		ARRET (black background)	1	**ZBY 0104**	0.002
		ARRET GENERAL	1	**ZBY 2129**	0.002
		ARRET REARMEMENT	1	**ZBY 2133**	0.002
		ARRET D'URGENCE	1	**ZBY 2130**	0.002
		ARRET-MARCHE	1	**ZBY 2166**	0.002
		ARRIERE	1	**ZBY 2106**	0.002
		AUTO CYCLE-CYCLE	1	**ZBY 2198**	0.002
		AUTO CYCLE-MAIN	1	**ZBY 2199**	0.002
		AUTO-MAIN	1	**ZBY 2164**	0.002
		AUTO-O-MAIN	1	**ZBY 2185**	0.002
		AVANT	1	**ZBY 2105**	0.002
		AVANT-O-ARRIERE	1	**ZBY 2184**	0.002
		C-P-C-NORMAL	1	**ZBY 2165**	0.002
		CYCLE-MAIN	1	**ZBY 2197**	0.002
		DECLENCHEMENT	1	**ZBY 2132**	0.002
		DEFAUT (black background)	1	**ZBY 2134**	0.002
		DEFAUT (red background)	1	**ZBY 2135**	0.002
		DEPART CYCLE	1	**ZBY 2195**	0.002
		DESCENTE	1	**ZBY 2108**	0.002
		DROITE	1	**ZBY 2109**	0.002
		ENCLENCHEMENT	1	**ZBY 2131**	0.002
		EN SERVICE	1	**ZBY 2111**	0.002
		FERMETURE	1	**ZBY 2114**	0.002
		GAUCHE	1	**ZBY 2110**	0.002
		HORS SERVICE	1	**ZBY 2112**	0.002
		HORS-EN	1	**ZBY 2167**	0.002
		LENT	1	**ZBY 2127**	0.002
		MAIN	1	**ZBY 2116**	0.002
		MARCHE	1	**ZBY 2103**	0.002
		MONTEE	1	**ZBY 2107**	0.002
		OUVERTURE	1	**ZBY 2113**	0.002
		PHASE / PHASE	1	**ZBY 2196**	0.002
		REARMEMENT (red background)	1	**ZBY 2123**	0.002
		REARMEMENT (black background)	1	**ZBY 0123**	0.002
		SOUS TENSION	1	**ZBY 2126**	0.002
		VITE	1	**ZBY 2128**	0.002

(1) For legends, see pages 36018/9 to 36018/11.
(2) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Separate components and accessories : for heads

Standard (30 x 40 mm) legend holders for 8 x 27 mm legends (continued)

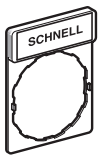
814618



ZBY 2303

Description	Legend		Reference	Weight
	Colour	Marking		kg
With legend (with English language marking)	Black or red background *(1)*	AUTO-HAND	**ZBY 2364**	0.002
		AUTO-O-HAND	**ZBY 2385**	0.002
		CLOSE	**ZBY 2314**	0.002
		DOWN	**ZBY 2308**	0.002
		EMERGENCY STOP	**ZBY 2330**	0.002
		FAST	**ZBY 2328**	0.002
		FORWARD	**ZBY 2305**	0.002
		HAND	**ZBY 2316**	0.002
		HAND-OFF-AUTO	**ZBY 2387**	0.002
		INCH	**ZBY 2321**	0.002
		LEFT	**ZBY 2310**	0.002
		OFF	**ZBY 2312**	0.002
		OFF-ON	**ZBY 2167**	0.002
		ON	**ZBY 2311**	0.002
		OPEN	**ZBY 2313**	0.002
		POWER ON	**ZBY 2326**	0.002
		RESET (red background)	**ZBY 2323**	0.002
		RESET (black background)	**ZBY 2322**	0.002
		REVERSE	**ZBY 2306**	0.002
		RIGHT	**ZBY 2309**	0.002
		RUN	**ZBY 2334**	0.002
		SLOW	**ZBY 2327**	0.002
		START	**ZBY 2303**	0.002
		STOP-START	**ZBY 2366**	0.002
		UP	**ZBY 2307**	0.002

814617



ZBY 2228

With legend (with German language marking)	Black or red background*(1)*	AB	**ZBY 2208**	0.002
		AUF	**ZBY 2207**	0.002
		AUS	**ZBY 2204**	0.002
		AUS-EIN	**ZBY 2266**	0.002
		AUS-IN BETRIEB	**ZBY 2267**	0.002
		AUS-RUCKSTELLUNG	**ZBY 2233**	0.002
		AUSSCHALTEN	**ZBY 2232**	0.002
		AUTO-HAND	**ZBY 2364**	0.002
		AUTO-O-HAND	**ZBY 2385**	0.002
		AUTOZYKL-HAND	**ZBY 2299**	0.002
		AUTOZYKL-1 ZYKL	**ZBY 2298**	0.002
		C-P-C-NORMAL	**ZBY 2265**	0.002
		EIN	**ZBY 2203**	0.002
		EINSCHALTEN	**ZBY 2231**	0.002
		HAND	**ZBY 2316**	0.002
		LANGSAM	**ZBY 2227**	0.002
		LINKS	**ZBY 2210**	0.002
		NOT-AUS (red background)	**ZBY 2230**	0.002
		NOT-AUS (yellow background)	**ZBY 22420001**	0.002
		NOT-HALT	**ZBY 2229**	0.002
		ÖFFNEN	**ZBY 2213**	0.002
		RECHTS	**ZBY 2209**	0.002
		RUCKSTELLUNG	**ZBY 2223**	0.002
		SCHLIESSEN	**ZBY 2214**	0.002
		SCHNELL	**ZBY 2228**	0.002
		SPANNUNG EIN	**ZBY 2226**	0.002
		STEUERUNG AUS	**ZBY 2212**	0.002
		STEUERUNG EIN	**ZBY 2211**	0.002
		STORUNG (black background)	**ZBY 2234**	0.002
		STORUNG (red background)	**ZBY 2235**	0.002
		VOR	**ZBY 2205**	0.002
		VOR-O-ZURUCK	**ZBY 2284**	0.002
		ZURUCK	**ZBY 2206**	0.002
		ZYKLUS-HAND	**ZBY 2297**	0.002
		ZYKLUSSTART	**ZBY 2295**	0.002

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

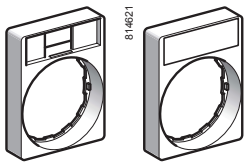
Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Separate components and accessories : for heads

814620 814621

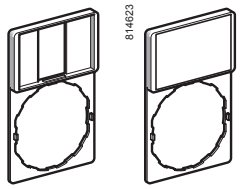


ZBZ 34 ZBY ●H101

30 x 40 mm legend holders (flush mounting with bezel) for 8 x 27 mm legends

Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	Circular heads	–	10	**ZBZ 34**	0.003
	Square heads	–	10	**ZBC Z34**	0.002
With blank legend	Circular heads	Black or red background	10	**ZBY 2H101**	0.004
		White or yellow background	10	**ZBY 4H101**	0.004
	Square heads	Black or red background	10	**ZBC Y2H101**	0.002
		White or yellow background	10	**ZBC Y4H101**	0.002

814622 814623

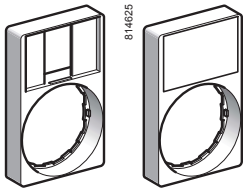


ZBZ 33 ZBY 610●

Standard (30 x 50 mm) legend holders for 18 x 27 mm legends

Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	Circular and square heads	–	10	**ZBZ 33**	0.001
With blank legend	Circular and square heads	Black or red background	10	**ZBY 6101**	0.002
		White or yellow background	10	**ZBY 6102**	0.002

814624 814625

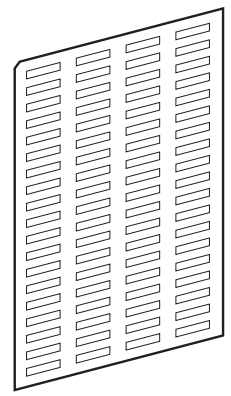


ZBZ 35 ZBY 6H10●

30 x 50 mm legend holders (flush mounting with bezel) for 18 x 27 mm legends

Description	For use with	Colour	Sold in lots of	Unit reference	Weight kg
Without legend	Circular heads	–	10	**ZBZ 35**	0.003
	Square heads	–	10	**ZBC Z35**	0.002
With blank legend	Circular heads	Black or red background	10	**ZBY 6H101**	0.004
		White or yellow background	10	**ZBY 6H102**	0.004
	Square heads	Black or red background	10	**ZBC Y6H101**	0.003
		White or yellow background	10	**ZBC Y6H102**	0.003

814627



ZBY 4100

Legends for engraving

Description mm	For use with	Colour	Sold in lots of	Unit reference	Weight kg
8 x 27	30 x 40 mm legend holders	Black or red background	10	**ZBY 0101**	0,001
		White or yellow background	10	**ZBY 0102**	0.001
18 x 27	30 x 50 mm legend holders	Black or red background	10	**ZBY 5101**	0.001
		White or yellow background	10	**ZBY 5102**	0.001

Sheets of peel-off legends (with backing board and protective transparent cover)

Description	For use with	Sold in lots of	Unit reference	Weight kg
Sheet of 76 8 x 27 mm legends	30 x 40 mm legend holders ZBZ 32 and ZBZ 34	10	**ZBY 4100**	0.043
Sheet of 40 18 x 27 mm legends	30 x 50 mm legend holders ZBZ 33 and ZBZ 35	10	**ZBY 5100**	0.044

563827



XBY 2U

"SIS Label" labelling software

Application	Reference	Weight kg
Legend design for English, French, German, Italian, Spanish	**XBY 2U**	0.100

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Separate components and accessories : for heads

814628



ZBY 02178

814629



ZBY 0●104

8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ 32 and ZBZ 34)

Colour	Marking		Reference	Weight kg
Black or red background *(1)*	International	O (black background)	**ZBY 02146**	0,001
		O (red background)	**ZBY 02931**	0.001
		I	**ZBY 02147**	0.001
		II	**ZBY 02148**	0.001
		O-I	**ZBY 02178**	0.001
		I-II	**ZBY 02179**	0.001
		I-O-II	**ZBY 02186**	0.001
		AUTO	**ZBY 02115**	0.001
		STOP	**ZBY 02304**	0.001
	French	ARRET (red background)	**ZBY 02104**	0.001
		ARRET (black background)	**ZBY 00104**	0.001
		ARRET GENERAL	**ZBY 02129**	0.001
		ARRET REARMEMENT	**ZBY 02133**	0.001
		ARRET D'URGENCE	**ZBY 02130**	0.001
		ARRET-MARCHE	**ZBY 02166**	0.001
		ARRIERE	**ZBY 02106**	0.001
		AUTO CYCLE-CYCLE	**ZBY 02198**	0.001
		AUTO CYCLE-MAIN	**ZBY 02199**	0.001
		AUTO-MAIN	**ZBY 02164**	0.001
		AUTO-O-MAIN	**ZBY 02185**	0.001
		AVANT	**ZBY 02105**	0.001
		AVANT-O-ARRIERE	**ZBY 02184**	0.001
		C-P-C-NORMAL	**ZBY 02165**	0.001
		CYCLE-MAIN	**ZBY 02197**	0.001
		DECLENCHEMENT	**ZBY 02132**	0.001
		DEFAUT (black background)	**ZBY 02134**	0.001
		DEFAUT (red background)	**ZBY 02135**	0.001
		DEPART CYCLE	**ZBY 02195**	0.001
		DESCENTE	**ZBY 02108**	0.001
		DROITE	**ZBY 02109**	0.001
		ENCLENCHEMENT	**ZBY 02131**	0.001
		EN SERVICE	**ZBY 02111**	0.001
		FERMETURE	**ZBY 02114**	0.001
		GAUCHE	**ZBY 02110**	0.001
		HORS SERVICE	**ZBY 02112**	0.001
		HORS-EN	**ZBY 02167**	0.001
		LENT	**ZBY 02127**	0.001
		MAIN	**ZBY 02116**	0.001
		MARCHE	**ZBY 02103**	0.001
		MONTEE	**ZBY 02107**	0.001
		OUVERTURE	**ZBY 02113**	0.001
		PHASE / PHASE	**ZBY 02196**	0.001
		REARMEMENT (red background)	**ZBY 02123**	0.001
		REARMEMENT (black background)	**ZBY 00123**	0.001
		SOUS TENSION	**ZBY 02126**	0.001
		VITE	**ZBY 02128**	0.001

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Separate components and accessories : for heads

814633



ZBY 02303

814632



ZBY 02228

8 x 27 mm marked legends (for 30 x 40 mm legend holders ZBZ 32 and ZBZ 34) *(continued)*

Colour	Marking		Reference	Weight kg
Black or red background *(1)*	English	AUTO-HAND	**ZBY 02364**	0,001
		AUTO-O-HAND	**ZBY 02385**	0.001
		CLOSE	**ZBY 02314**	0.001
		DOWN	**ZBY 02308**	0.001
		EMERGENCY STOP	**ZBY 02330**	0.001
		FAST	**ZBY 02328**	0.001
		FORWARD	**ZBY 02305**	0.001
		HAND	**ZBY 02316**	0.001
		HAND-OFF-AUTO	**ZBY 02387**	0.001
		INCH	**ZBY 02321**	0.001
		LEFT	**ZBY 02310**	0.001
		OFF	**ZBY 02312**	0.001
		OFF-ON	**ZBY 02367**	0.001
		ON	**ZBY 02311**	0.001
		OPEN	**ZBY 02313**	0.001
		POWER ON	**ZBY 02326**	0.001
		RESET (red background)	**ZBY 02323**	0.001
		RESET (black background)	**ZBY 02322**	0.001
		REVERSE	**ZBY 02306**	0.001
		RIGHT	**ZBY 02309**	0.001
		RUN	**ZBY 02334**	0.001
		SLOW	**ZBY 02327**	0.001
		START	**ZBY 02303**	0.001
		STOP-START	**ZBY 02366**	0.001
		UP	**ZBY 02307**	0.001
	German	AB	**ZBY 02208**	0.001
		AUF	**ZBY 02207**	0.001
		AUS	**ZBY 02204**	0.001
		AUS-EIN	**ZBY 02266**	0.001
		AUS-IN BETRIEB	**ZBY 02267**	0.001
		AUS-RUCKSTELLUNG	**ZBY 02233**	0.001
		AUSSCHALLEN	**ZBY 02232**	0.001
		AUTO-HAND	**ZBY 02364**	0.001
		AUTO-O-HAND	**ZBY 02385**	0.001
		AUTOZYKL-HAND	**ZBY 02299**	0.001
		AUTOZYKL- 1 ZYKL	**ZBY 02298**	0.001
		C-P-C-NORMAL	**ZBY 02265**	0.001
		EIN	**ZBY 02203**	0.001
		EINSCHALTEN	**ZBY 02231**	0.001
		HAND	**ZBY 02316**	0.001
		LANGSAM	**ZBY 02227**	0.001
		LINKS	**ZBY 02210**	0.001
		NOT-AUS (red background)	**ZBY 02230**	0.001
		NOT-AUS (yellow background)	**ZBY 022420001**	0.001
		NOT-HALT	**ZBY 02229**	0.001
		ÖFFNEN	**ZBY 02213**	0.001
		RECHTS	**ZBY-02209**	0.001
		RUCKSTELLUNG	**ZBY-02223**	0.001
		SCHLIESSEN	**ZBY-02214**	0.001
		SCHNELL	**ZBY-02228**	0.001
		SPANNUNG EIN	**ZBY-02226**	0.001
		STEUERUNG AUS	**ZBY-02212**	0.001
		STEUERUNG EIN	**ZBY-02211**	0.001
		STORUNG (black background)	**ZBY-02234**	0.001
		STORUNG (red background)	**ZBY-02235**	0.001
		VOR	**ZBY-02205**	0.001
		VOR-O-ZURUCK	**ZBY-02284**	0.001
		ZURUCK	**ZBY-02206**	0.001
		ZYKLUS-HAND	**ZBY-02297**	0.001
		ZYKLUSSTART	**ZBY-02295**	0.001

(1) "Start" functions: white letters on black background. "Stop" functions: white letters on red background (unless otherwise specified above).

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

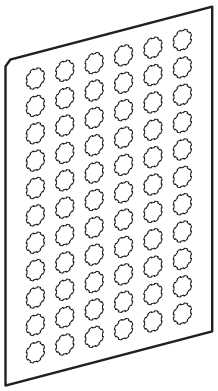
Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Separate components and accessories : for heads

814634



ZBY 1101

Legends for pushbuttons, switches and pilot lights XB5 A

Description	Marking		Sold in lots of	Unit reference	Weight kg
Sheets of 66 circular peel-off transparent self-adhesive legends	Without		10	**ZBY 1101**	0.017
Strips of 66 circular peel-off transparent self-adhesive legends	International	O	10	**ZBY 1146**	0.017
		I	10	**ZBY 1147**	0.017
		II	10	**ZBY 1148**	0.017
		III	10	**ZBY 1149**	0.017
		STOP	10	**ZBY 1304**	0.017
		⬆	10	**ZBY 1912**	0.017
	French	ARRET	10	**ZBY 1104**	0.017
		ARRIERE	10	**ZBY 1106**	0.017
		AUTO	10	**ZBY 1115**	0.017
		AVANT	10	**ZBY 1105**	0.017
		DESCENTE	10	**ZBY 1108**	0.017
		MAIN	10	**ZBY 1116**	0.017
		MARCHE	10	**ZBY 1103**	0.017
		MONTEE	10	**ZBY 1107**	0.017
	English	HAND	10	**ZBY 1316**	0.017
		OFF	10	**ZBY 1312**	0.017
		ON	10	**ZBY 1311**	0.017
		START	10	**ZBY 1303**	0.017
	German	AB	10	**ZBY 1208**	0.017
		AUF	10	**ZBY 1207**	0.017
		AUS	10	**ZBY 1204**	0.017
		EIN	10	**ZBY 1203**	0.017
		ZU	10	**ZBY 1214**	0.017
Strip of 66 square peel-off transparent self-adhesive legends	Without		10	**ZBC Y1101**	0.017

563527



XBY 2U

"SIS Label" labelling software

Application	Unit reference	Weight kg
Legend design for English, French, German, Italian, Spanish	**XBY 2U**	0.100

Circular legends for Emergency stop mushroom head pushbuttons (yellow)

Diameter mm	Marking on yellow background	Reference	Weight kg
60	Without	**ZBY 9101**	0.004
	ARRET D'URGENCE	**ZBY 9130**	0.004
	EMERGENCY STOP	**ZBY 9330**	0.004
	NOT-AUS	**ZBY 9230**	0.004
90	Without	**ZBY 8101**	0.008
	ARRET D'URGENCE	**ZBY 8130**	0.008
	EMERGENCY STOP	**ZBY 8330**	0.008
	NOT-AUS	**ZBY 8230**	0.008

563089



ZBY 9130

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

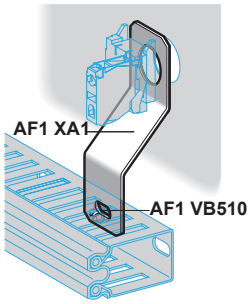
Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Separate components and accessories

563155



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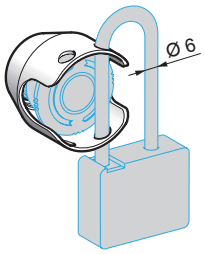
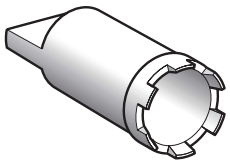


ZBZ 160●

814640



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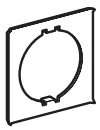
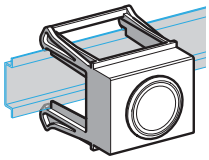


103548



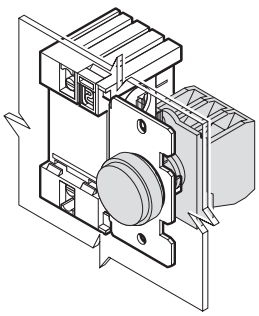
ZB5 AZ902 *ZB4 BZ64*

501562



15151

563157



XBZ S43

Accessories

Description	Application		Sold in lots of	Unit reference	Weight kg
Cable ducting support	Fixing beneath head		10	**AF1 XA1**	0.030
M5 x 10 screw, with hexagonal slotted head	For fixing cable ducting		100	**AF1 VB510**	0.003
Support	For pushbuttons, switches and pilot lights XB5 A		1	**DX1 AP52**	0.160
Metal guards Padlockable *(1)*	For Emergency stop function only with the following Ø 40 trigger action pushbuttons: XB5 AT8●, XB5 AS8●, XB5 AS9●, ZB5 AT8●, ZB5 AS8●, ZB5 AS9●.	Chromium plated	1	**ZBZ 1600**	0.046
		Black	1	**ZBZ 1602**	0.046
		Red	1	**ZBZ 1604**	0.046
		Yellow	1	**ZBZ 1605**	0.046
		Blue	1	**ZBZ 1606**	0.046
Plastic guard	For selector switches with standard handle or key switches	Black	1	**ZBZ 2102**	0.005
Plastic blanking plug, round, black *(2)*	For Ø 22 control and signalling units with circular head		10	**ZB5 SZ3**	0.008
Plastic blanking plug, square, black *(2)*	For Ø 22 control and signalling units with square head		10	**ZB5 SZ5**	0.009
Add-on square trim	Gives a square appearance to ZB5 A circular heads		10	**ZB5 AZ31**	0.002
Nut	Fixing the head		10	**ZB5 AZ901**	0.002
Bezel tool	Tightening head fixing nut ZB5 AZ901		1	**ZB5 AZ905**	0.016
Anti-rotation plate	Prevents rotation of the head		10	**ZB5 AZ902**	0.008
Padlockable flaps	For pushbuttons	Black	1	**ZB4 BZ62**	0.076
		Red	1	**ZB4 BZ64**	0.076
		Yellow	1	**ZB4 BZ65**	0.076
		Blue	1	**ZB4 BZ66**	0.076
Pushbutton support	For 35 mm DIN rail, for use in modular enclosure *(3)*		1	**15151**	0.040

AS-Interface module for Ø 22 control and signalling units

Description	For use with	Unit reference	Weight kg
Panel fixing, in conjunction with a Harmony pushbutton or switch			
S7.F profile	4 inputs and 4 outputs direct supply from the bus	**XBZ S43**	0.100

(1) No isolation function is possible when this guard is fitted.
(2) Supplied complete with fixing nut.
(3) Marketed under the Merlin Gerin brand.

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Separate components, accessories and replacement parts



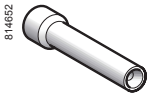
DL1 CE●●●



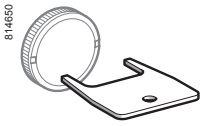
DL1 CJ0●●●



DL1 CF●●●



XBF X13



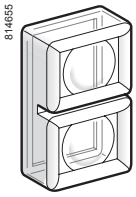
ZBZ 8



ZBG 455



ZBP 0



ZBW 008

BA 9s bulbs and associated accessories

Description	Characteristics	Colour	Sold in lots of	Unit reference	Weight kg
LEDs	≂ 24 V	White	1	**DL1 CJ0241**	0.002
		Green	1	**DL1 CJ0243**	0.002
		Red	1	**DL1 CJ0244**	0.002
		Yellow	1	**DL1 CJ0245**	0.002
		Blue	1	**DL1 CJ0246**	0.002
	≂ 48 V	Green	1	**DL1 CJ0483**	0.002
		Red	1	**DL1 CJ0484**	0.002
		Yellow	1	**DL1 CJ0485**	0.002
	6 V -1.2 W	White	1	**DL1 CD0061**	0.002
		Green	1	**DL1 CD0063**	0.002
		Red	1	**DL1 CD0064**	0.002
		Yellow	1	**DL1 CD0065**	0.002
		Blue	1	**DL1 CD0066**	0.002
Incandescent bulbs	6 V -1.2 W	–	10	**DL1 CB006**	0.002
	24 V - 2 W	–	10	**DL1 CE024**	0.002
	120…130 V - 2. W	–	10	**DL1 CE130**	0.002
Neon bulbs	120…130 V	–	10	**DL1 CF110**	0.002
	230…240 V	–	10	**DL1 CF220**	0.002
Bulb extractor	–	–	1	**XBF X13**	0.005
Lens cap tightening tool	Illuminated pushbuttons, with flush push	–	1	**ZBZ 8**	0.009

Replacement keys for Emergency stop key release heads and key switches

Description	Key number	Reference	Weight kg
Sets of 2 keys	455	**ZBG 455**	0.013
	421E	**ZBG 421E**	0.014
	458A	**ZBG 458A**	0.014
	520E	**ZBG 520E**	0.014
	3131A	**ZBG 3131A**	0.014
	4A185	**ZBD A185**	0.014
	LU1	**ZBD LU1**	0.014
	LU2	**ZBD LU2**	0.014
	LU3	**ZBD LU3**	0.014
	LU4	**ZBD LU4**	0.014
	LU5	**ZBD LU5**	0.014
	LU6	**ZBD LU6**	0.014
	LU7	**ZBD LU7**	0.014
	LU8	**ZBD LU8**	0.014
	LU9	**ZBD LU9**	0.014
	LU10	**ZBD LU10**	0.014
	LU11	**ZBD LU11**	0.014
	LU12	**ZBD LU12**	0.014
	LU13	**ZBD LU13**	0.014
	LU14	**ZBD LU14**	0.014
	8D1	**ZBD 8D1**	0.014

Clear boots

Description	For use with pushbuttons	Sold in lots of	Unit reference	Weight kg
Single boots	Flush with circular head	10	**ZBP A**	0.002
	Projecting with circular head	10	**ZBP 0**	0.002
	Flush or projecting with circular head for food industry applications	10	**ZBP 0A**	0.002
Double boots	Flush or projecting double-headed	10	**ZBW 008**	0.005
	Flush double-headed	10	**ZBW 008F**	0.005
	Double-headed for food industry applications	10	**ZBW 008A**	0.005

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

Control and signalling units Ø 22

Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

Replacement parts

Coloured boots

Description	Colour	Sold in lots of	Unit reference	Weight kg
Coloured boots (can be replaced without dismantling the head)	Black	10	**ZB2 BP012**	0.003
	Green	10	**ZB2 BP013**	0.003
	Red	10	**ZB2 BP014**	0.003
	Yellow	10	**ZB2 BP015**	0.003
	Blue	10	**ZB2 BP016**	0.003

Lens caps



ZBV 01●3

For use with	Colour	Sold in lots of	Unit reference	Weight kg
Circular lens caps for light sources with integral LED				
Pilot lights	White	10	**ZBV 0113**	0.002
	Green	10	**ZBV 0133**	0.002
	Red	10	**ZBV 0143**	0.002
	Yellow	10	**ZBV 0153**	0.002
	Blue	10	**ZBV 0163**	0.002
	5 different coloured grooved lenses *(1)*	1	**ZBV 0103S**	0.010
Illuminated pushbuttons, with flush push	White	10	**ZBW 9113**	0.002
	Green	10	**ZBW 9133**	0.002
	Red	10	**ZBW 9143**	0.002
	Yellow	10	**ZBW 9153**	0.002
	Blue	10	**ZBW 9163**	0.002
Illuminated pushbuttons, with projecting push	White	10	**ZBW 9313**	0.002
	Green	10	**ZBW 9333**	0.002
	Red	10	**ZBW 9343**	0.002
	Yellow	10	**ZBW 9353**	0.002
	Blue	10	**ZBW 9363**	0.002
Square lens caps for light sources with integral LED				
Pilot lights	White	10	**ZBC V0113**	0.002
	Green	10	**ZBC V0133**	0.002
	Red	10	**ZBC V0143**	0.002
	Yellow	10	**ZBC V0153**	0.002
	Blue	10	**ZBC V0163**	0.002
Illuminated pushbuttons, with flush push	White	10	**ZBC W9113**	0.002
	Green	10	**ZBC W9133**	0.002
	Red	10	**ZBC W9143**	0.002
	Yellow	10	**ZBC W9153**	0.002
	Blue	10	**ZBC W9163**	0.002
Illuminated pushbuttons, with projecting push	White	10	**ZBC W9313**	0.002
	Green	10	**ZBC W9333**	0.002
	Red	10	**ZBC W9343**	0.002
	Yellow	10	**ZBC W9353**	0.002
	Blue	10	**ZBC W9363**	0.002
Circular lens caps for light sources with BA 9s base fitting				
Pilot lights	White	10	**ZBV 011**	0.002
	Green	10	**ZBV 013**	0.002
	Red	10	**ZBV 014**	0.002
	Yellow	10	**ZBV 015**	0.002
	Blue	10	**ZBV 016**	0.002
	Clear	10	**ZBV 017**	0.002
Illuminated pushbuttons, with flush push	White	10	**ZBW 911**	0.002
	Green	10	**ZBW 913**	0.002
	Red	10	**ZBW 914**	0.002
	Yellow	10	**ZBW 915**	0.002
	Blue	10	**ZBW 916**	0.002
	Clear	10	**ZBW 917**	0.002
Illuminated pushbuttons, with projecting push	White	10	**ZBW 931**	0.002
	Green	10	**ZBW 933**	0.002
	Red	10	**ZBW 934**	0.002
	Yellow	10	**ZBW 935**	0.002
	Blue	10	**ZBW 936**	0.002
	Clear	10	**ZBW 937**	0.002



ZBV 01●

(1) Clear, green, red, yellow, blue.

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
Dimensions : pages 36021/2 to 36021/9

Control and signalling units Ø 22

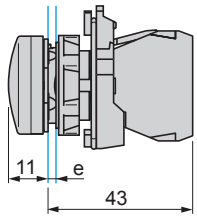
Harmony® style 5

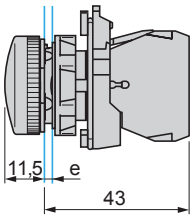
Pushbuttons, switches and pilot lights with double insulated bezel

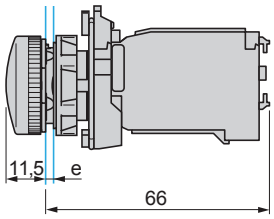
Complete units XB5 A : signalling functions with or without contacts

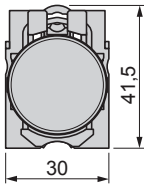
Pilot lights

Integral LED	Direct supply	Via integral transformer	
XB5 AVB●, AVG●, AVM●	XB5 AV6	XB5 AV3●, AV4●	Common face view





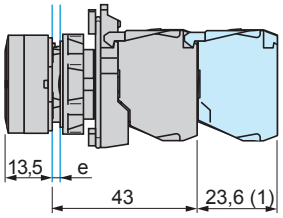


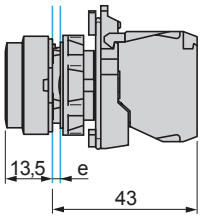


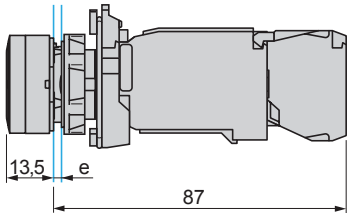
e: panel thickness: 1 to 6 mm

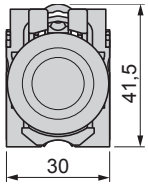
Illuminated pushbuttons

Integral LED	Direct supply	Via integral transformer	
XB5 AW3●●5	XB5 AW3●65	XB5 AW3●●5	Common face view





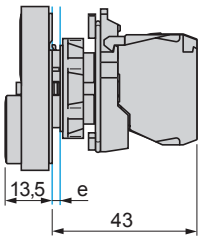


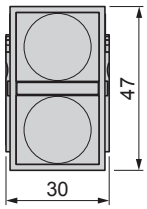


(1) Additional row of contacts or double contact.

Double-headed pushbuttons with pilot light

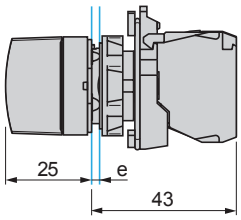
Integral LED
XB5 AW84●5

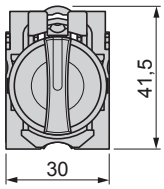




Illuminated selector switches

Integral LED
XB5 AK12●●5

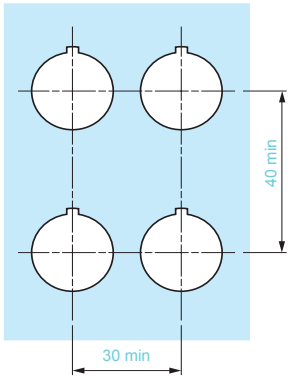


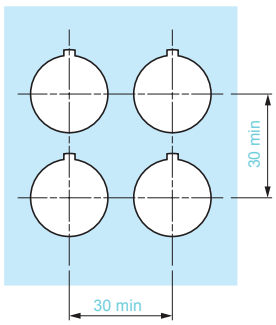


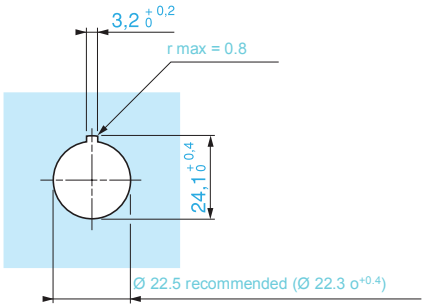
e: panel thickness: 1 to 6 mm

Panel cut-out for pushbuttons, switches and pilot lights *(2)*

Screw clamp terminal and plug-in connector models	Printed circuit board connection models	Detail of lug recess







(2) Fixing centres for pushbuttons, switches and pilot lights fitted with Faston connector terminals 32 x 45 min.

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
References: pages 36012/2 to 36019/3

Control and signalling units Ø 22

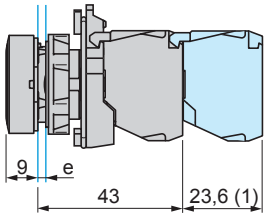
Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

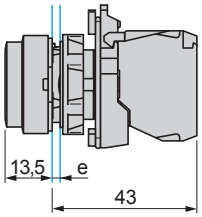
Complete units XB5 A : contact functions

Pushbuttons, spring return

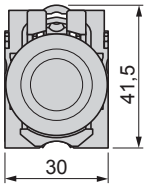
XB5 AA●●



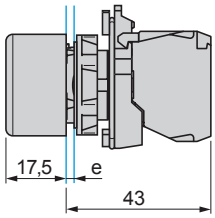
XB5 AL●●

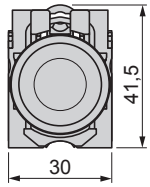


Common face view



XB5 AP●●

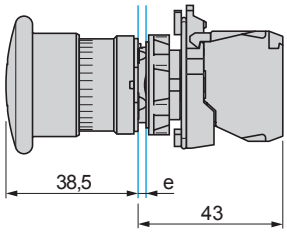


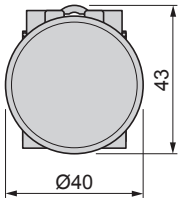


(1) Additional row of contacts or double contact.

Mushroom head

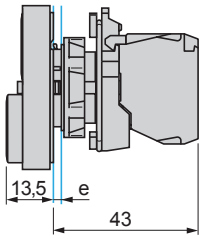
XB5 AC21

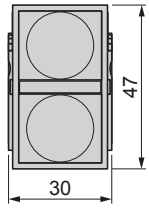




Double-headed

XB5 AL●45, AL●4C5

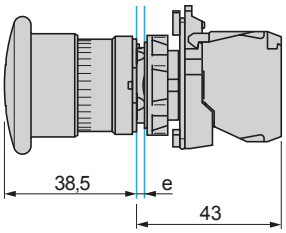




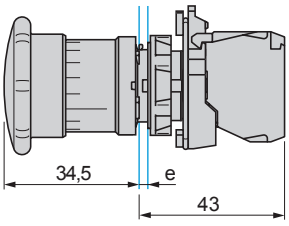
e: panel thickness: 1 to 6 mm

Emergency stop mushroom head pushbuttons

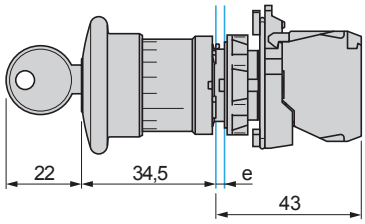
XB5 AT42,BT845



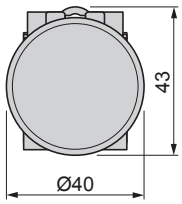
XB5 AS542, AS8445



XB5 AS142, A 9445



Common face view

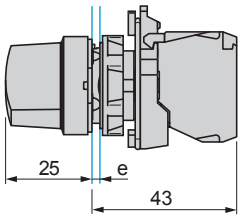


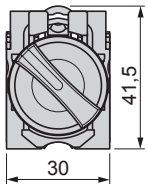
e: panel thickness: 1 to 6 mm

Selector switches

Standard handle operator

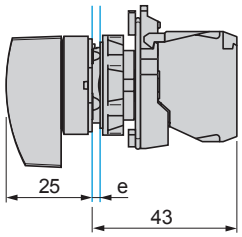
XB5 AD

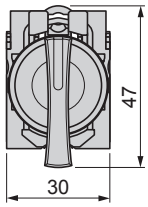




Long handle operator

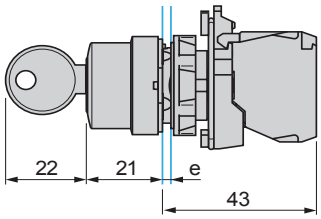
XB5 AJ

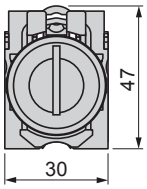




Key switches

XB5 AG





e: panel thickness: 1 to 6 mm

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
References: pages 36012/2 to 36019/3

Control and signalling units Ø 22

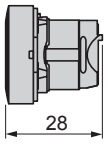
Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

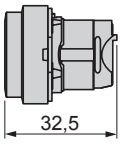
Complete units ZB5 A : contact functions

Heads for spring return pushbuttons

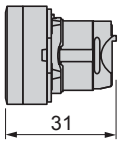
ZB5 AA●, AA●●●, ZB5 AA●8



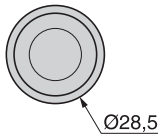
ZB5 AL●, AL●●●



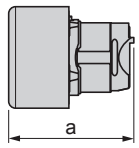
ZB5 AA●4, AA●6

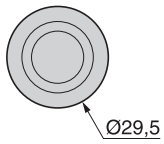


Common face view



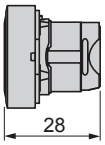
ZB5 AP●● ZB5 AP●S



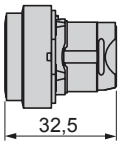


ZB4	a
AP●●	36,5
AP●S	33

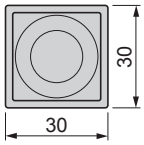
ZB5 CA●, CA0



ZB5 CL●



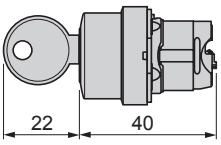
Common face view

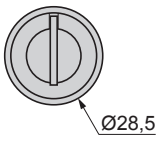


Heads for pushbuttons

Lockable "push-turn"

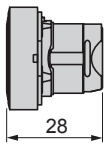
ZB5 AFD



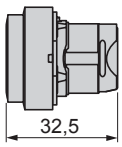


Push-push to release

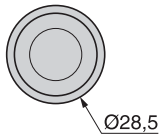
ZB5 AH0●



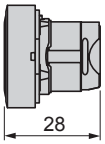
ZB5 AH●

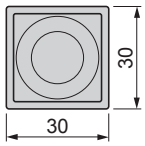


Common face view



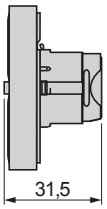
ZB5 CH0●



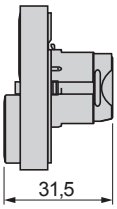


Heads for double-headed, spring return pushbuttons

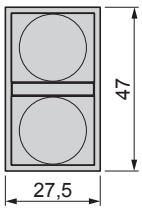
ZB5 AA81●●, ZB5 AA82●●



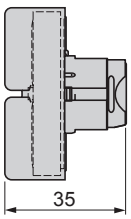
ZB5 AL83●●, ZB5 AL84●●



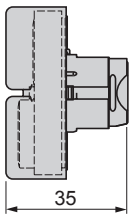
Common face view



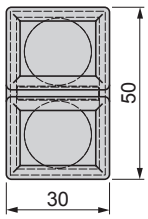
ZB5 AA91●●, ZB5 AA92●●



ZB5 AL93●●, ZB5 AL94●●



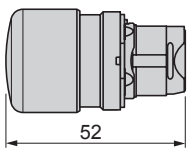
Common face view

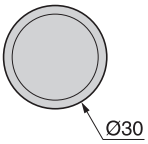


Heads for pushbuttons

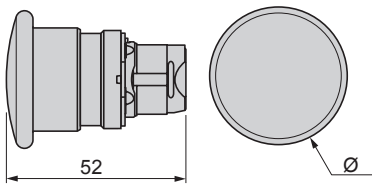
Mushroom head

ZB5 AC●4





ZB5 AC●, AR●



ZB5	Ø
AC●	40
AR●	60

ZB5 AR●16

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References: pages 36012/2 to 36019/3

Control and signalling units Ø 22

Harmony® style 5

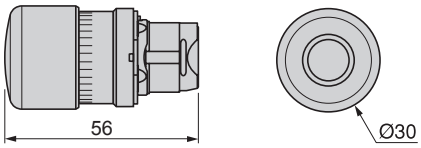
Pushbuttons, switches and pilot lights with double insulated bezel

Complete units ZB5 A : contact functions

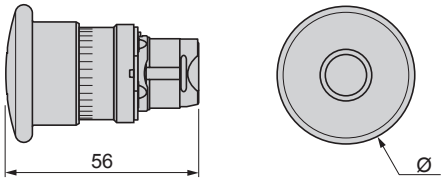
Mushroom heads for latching pushbuttons

Push-pull

ZB5 AT44



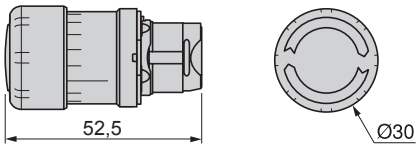
ZB5 AT4, AT84, AX4



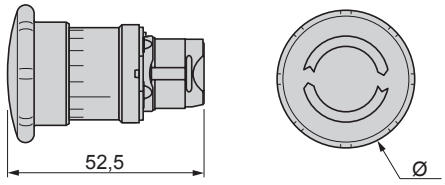
ZB5	Ø
AT4, AT84	40
AX4	60

Turn to release

ZB5 AS4●, AS834



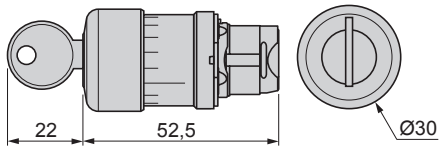
ZB5 AS5●, AS844, AS6●



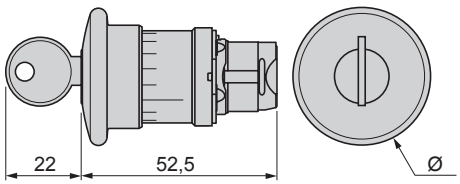
ZB5	Ø
AS5●, AS844	40
AS6●	60

Key release

ZB5 AS7●, AS934

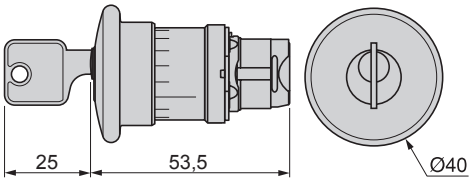


ZB5 AS1●, AS2●, AS944, AS964



ZB5	Ø
AS1●, AS944	40
AS2●, AS964	60

ZB5 AS14D



Control and signalling units Ø 22

Harmony® style 5

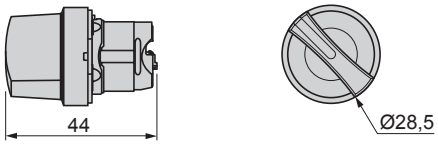
Pushbuttons, switches and pilot lights with double insulated bezel

Complete units ZB5 A : contact functions

Heads for selector switches

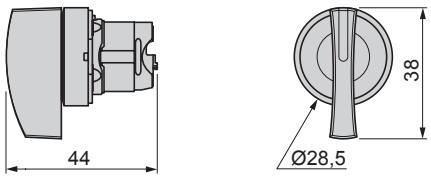
Standard handle operator

ZB5 AD●, AD●M



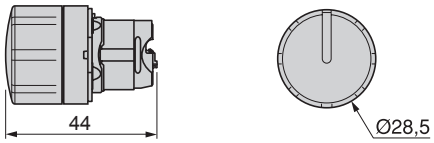
Long handle operator

ZB5 AJ●, AJ●M



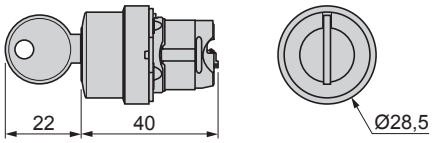
Knurled knob, black

ZB5 AD●9



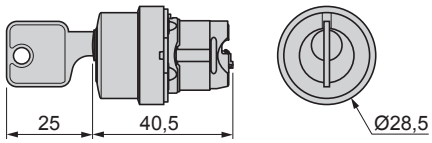
Key switch (Ronis n° 455)

ZB5 AG●, AG0●, AG●M



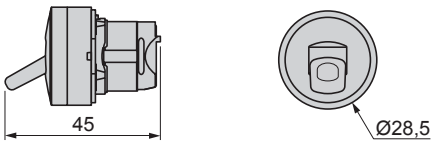
Key switch (DOM n° 8D1)

ZB5 AGD



Heads for toggle switches

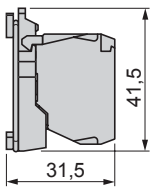
ZB5 AD●8



Bodies for pushbuttons and switches

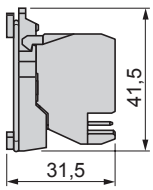
Screw clamp terminal connections

ZB5 AZ10●, AZ141



Plug-in connector

ZB5 AZ10●4, AZ1414



General :
pages 36025/2 to 36027/5

Characteristics :
pages 36011/2 to 36011/5

References:
pages 36012/2 to 36019/3

Control and signalling units Ø 22

Harmony® style 5

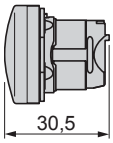
Pushbuttons, switches and pilot lights with double insulated bezel

Complete units ZB5 A : signalling functions with or without contacts

Heads for pilot lights, with light source

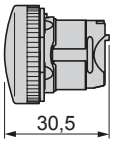
Integral LED

ZB5 AV0●3

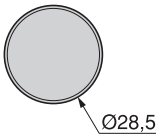


Incandescent, neon or LED

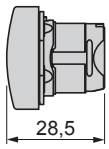
ZB5 AV0●, AV0●S

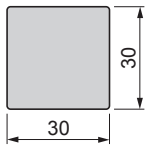


Common face view



ZB5 CV0●3, CH3●3

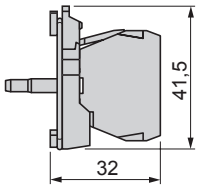




Bodies for pilot lights, screw clamp terminal connections

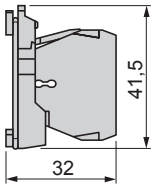
Integral LED

ZB5 AV●●



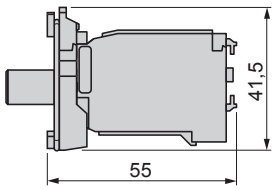
Direct supply, for BA 9s bulb

ZB5 AV6



Via integral transformer for BA 9s bulb

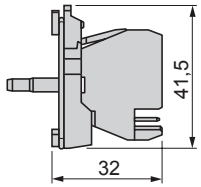
ZB5 AV●, AV●D●



Bodies for pilot lights, plug-in connector

Integral LED

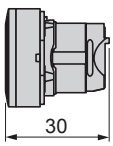
ZB5 AV●●4



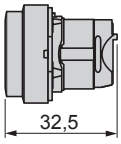
Heads for spring return illuminated pushbuttons, for light source

LED

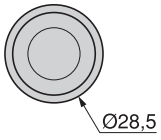
ZB5 AW3●3, AW3●3S, ZB5 AA●8



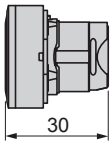
ZB5 AW1●3, ZB5 AL●8

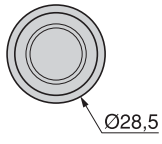


Common face view

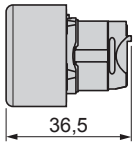


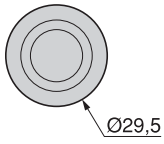
ZB5 AW9●3



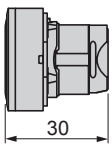


ZB5 AW5●3

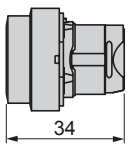




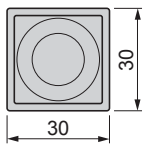
ZB5 CW3●3



ZB5 CW1●3

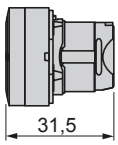


Common face view

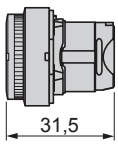


BA 9Ss bulb

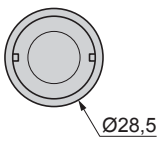
ZB5 AW3●, AW3●S



ZB5 AW1●



Common face view



Control and signalling units Ø 22

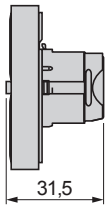
Harmony® style 5

Pushbuttons, switches and pilot lights with double insulated bezel

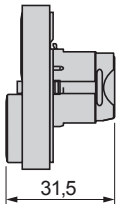
Complete units ZB5 A : signalling functions with or without contacts

Heads for double-headed pushbuttons with pilot light

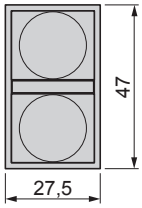
ZB5 AW81●●●3, ZB5 AW82●●●3



ZB5 AW83●●●3, ZB5 AW84●●●3

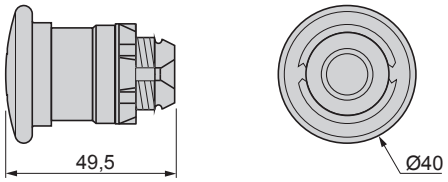


Common face view



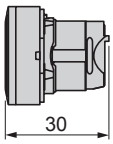
Mushroom heads for latching pushbuttons

ZB5 AW7●3

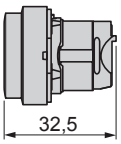


Heads for illuminated "push-push to release" pushbuttons

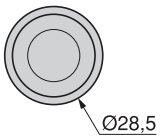
ZB5 AH0●3



ZB5 AH●3

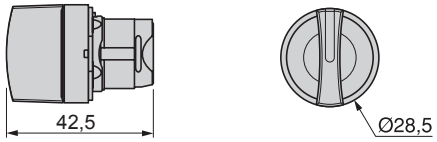


Common face view



Heads for illuminated selector switches with standard handle

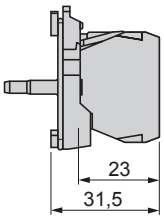
ZB5 AK1●●●3



Bodies for illuminated pushbuttons and selector switches, screw clamp terminal connections

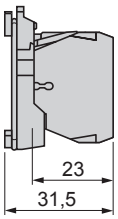
Integral LED

ZB5 AW0●●●



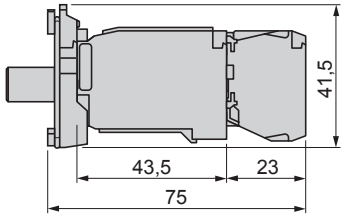
Direct supply, for BA 9s bulb

ZB5 AW06●



Via integral transformer for BA 9s bulb

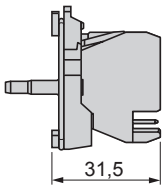
ZB5 AW0●●, AW0●D●●



Bodies for illuminated push-buttons/switches, plug-in connector

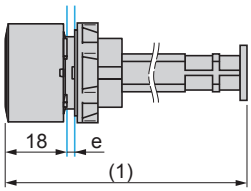
Integral LED

ZB5 AW0●●●4

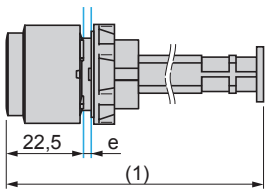


Manual overload reset buttons

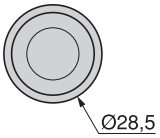
XB5 A8●●●



XB5 AL8●●●



Common face view



Head + mounting base for potentiometer

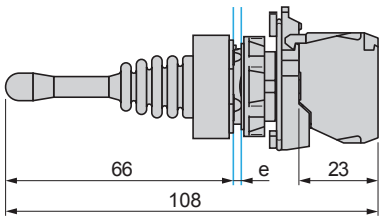
ZB5 AD9●2



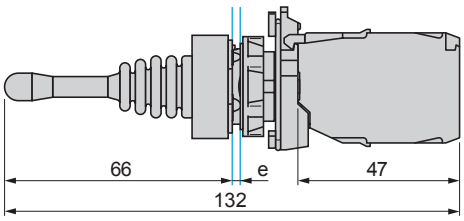
(1) Value not yet available

Joystick controllers

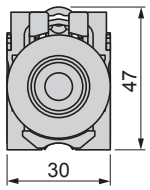
XD5 PA●2



XD5 PA●4



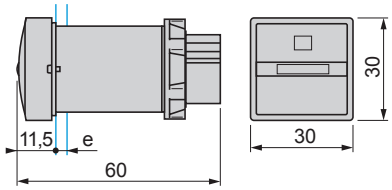
Common face view



e: panel thickness 1 to 6 mm

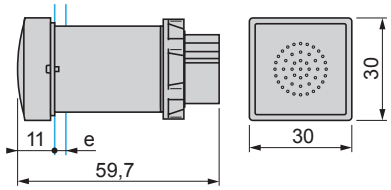
Hour counters

XB5 DS●



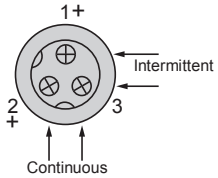
Annunciators

XB5 KS●



Connection diagram

XB5 KS●



General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
References: pages 36012/2 to 36019/3

Control and signalling units Ø 22

Harmony® style 5

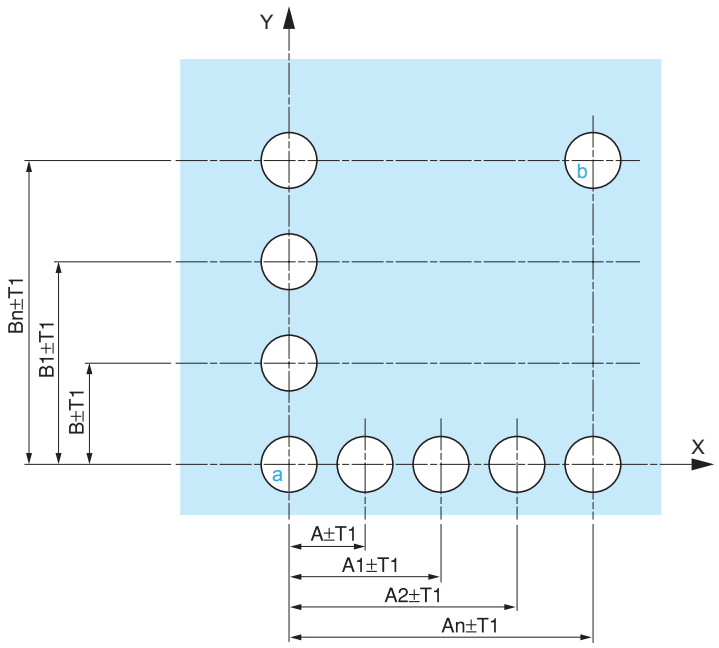
Pushbuttons, switches and pilot lights with double insulated bezel

Complete units ZB5 A

Pushbuttons, switches and pilot lights for printed circuit board connection

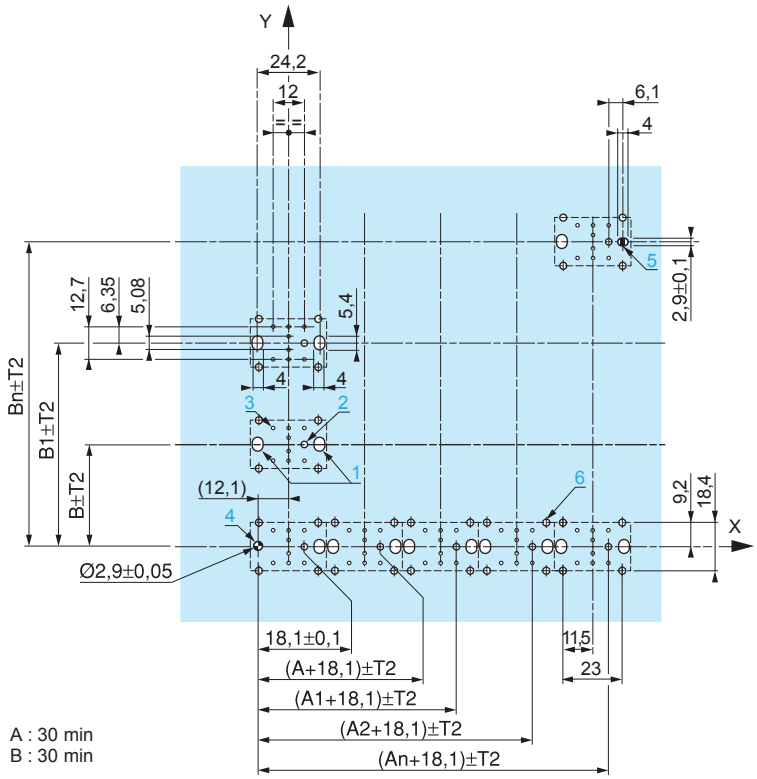
Panel cut-out (viewed from installer's side)

Dimensions in mm



Printed circuit board drillings (viewed from electrical block side)

Dimensions in mm



General tolerances of the panel and printed circuit board

The cumulative tolerance must not exceed 0.3 mm: T1 + T2 = 0.3 mm max.

Installation precautions:

Minimum thickness of circuit board: 1.6 mm.

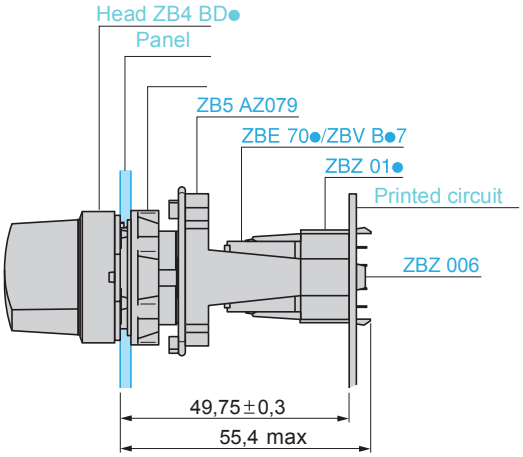
Cut-out diameter: 22.5 mm ± 0.1 mm.

Orientation of body/fixing collar ZB5 BZ079: ± 2 ° 30' (excluding cut-outs marked a and b).

Tightening torque of screws ZBZ 006: 0.6 N.m.

Allow for one ZB5 BZ079 pillar and its fixing screws:
- every 90 mm horizontally (X) and every 120 mm vertically Y,
- with each selector switch head (ZB5 AD●, ZB5 AJ●, ZB5 AG●).

The fixing centres marked a and b are diagonally opposed and must align with those marked 4 and 5 on the printed circuit board.



Mounting of adaptor (socket) ZBZ 01● :

1 2 elongated holes for ZBZ 006 screw access.

2 1 hole Ø 2.4 mm ± 0.05 for centring adaptor ZBZ 01●.

3 8 x Ø 1.2 mm holes.

4 1 hole Ø 2.9 mm ± 0.05, for centring the printed circuit board (with cut-out marked a).

5 1 elongated hole for orientation of the printed circuit board (with cut-out marked b).

6 4 holes Ø 2.4 mm ± 0.05 for clipping in adaptor ZBZ 01●.

Dimensions An + 18.1 relate to the Ø 2.4 mm ± 0.05 holes for centring adaptor ZBZ 01●.

General : pages 36025/2 to 36027/5
Characteristics : pages 36011/2 to 36011/5
References: pages 36012/2 to 36019/3

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Owing to changes in standards and equipment, the characteristics given in the text and images in this document are not binding until they have been confirmed with us.

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9001CT0404

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April 2004