

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Harmony® style 5
 Emergency stop mushroom head pushbuttons
 Ø 22 trigger action
 Plastic 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 536		Class II
Degree of protection	Conforming to IEC 529		IP 65 unless otherwise stated
	Conforming to NEMA		NEMA 4X and 13, unless otherwise stated
Mechanical shock protection	Conforming to EN 50102		IK 03
Conforming to standards			IEC 947-1, IEC/EN 60947-5-1, IEC 947-5-4, EN 60947-1, JIS C 4520, UL 508, CSA C22-2 n° 14
Product certifications	UL Listed, CSA		Standard contact with screw clamp terminals : A600 ; Q600
	BV, RINA, LROS, DNV, GL (pending)		Standard contact with screw clamp terminals
Terminal identification	Conforming to EN 50005 and EN 50013		

Characteristics of contact or combined 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 force	Emergency stop with N/C + N/O : - Push-pull	N	- trigger action : 50
	-Turn to release : (with and without key unlocking)	N	- trigger action : 44
	Additional contact (extra to change state)	N	N/C contact : 2 N/O contact : 2.3
Mechanical durability	Emergency stop pushbutton Standard block only		0.3 5
Vibration resistance	Conforming to IEC 68-2-6		Frequency : 2 to 500 Hz : 5 gn
Shock resistance	Conforming to IEC 68-2-27		Half sine wave acceleration 11 ms : 10 gn

Electrical characteristics

Cabling capacity	Conforming to IEC 947-1	mm ²	Screw clamp terminals ; cross head screws (Pozidriv type) Min. : 1 x 0.22 without cable end (1 x 0.34 for linking) Max. : 2 x 1.5 with cable end
Contact material	Silver alloy (Ag / Ni)		Standard block with screw clamp terminals
Short-circuit protection	Conforming to IEC/EN 60947-5-1	A	Standard block with screw clamp terminals : 10 (gG cartridge fuse conforming to IEC 269-1)
Rated insulation voltage	Conforming to IEC 947-1	V	Standard block with screw clamp terminals : Ui = 600 degree of pollution 3
Rated impulse withstand voltage	Conforming to IEC 947-1	kV	Standard block with screw clamp terminal connections : Uimp = 6
Rated operational characteristics Conforming to IEC/EN 60947-5-1	a.c. supply : utilisation category AC-15		Standard block 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
	d.c. supply : utilisation category DC-13		Standard block 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
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	V	Standard block with screw clamp terminals : 24 120 230
		A	4 3 2
	d.c. supply for 1 million operating cycles utilisation category DC-13	V	Standard block with screw clamp terminals : 24 110
		A	0.5 0.2
Electrical reliability	Failure rate (According to IEC 947-5-4)		Standard block in clean environment : - at 17 V and 5 mA, λ < 10 ⁻⁸ - at 5 V and 1 mA, λ < 10 ⁻⁶

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Safety solutions using Preventa

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XB5-AT845








XB5-AS8445



XB5-AS9445

Emergency stop mushroom head pushbuttons (colour : red)

Screw clamp terminal connections

Shape of head	Type of push	Type of contact		Reference	Weight kg
					
		N/O	N/C		
	Trigger action Push-pull Ø 40	1	1	XB5-AT845 (ZB5-AZ105 + ZB5-AT84)	0.076
	Trigger action Turn to release Ø 40	1	1	XB5-AS8445 (ZB5-AZ105 + ZB5-AS844)	0.072
	Trigger action Key release (n° 455) Ø 40	1	1	XB5-AS9445 (ZB5-AZ105 + ZB5-AS944)	0.112



ZBY-2130

Legend holder, 30 x 40 mm

Description	White marking on red background	Reference	Weight kg
With 8 x 27 mm legend	EMERGENCY STOP	ZBY-2330	0.002
	ARRET D'URGENCE	ZBY-2130	0.002
	NOT-AUS	ZBY-2230	0.002



ZBY-8330

Circular legends

Diameter mm	Marking, on yellow background	Reference	Weight kg
60	EMERGENCY STOP	ZBY-9330	0.004
	ARRET D'URGENCE	ZBY-9130	0.004
	NOT-AUS	ZBY-9230	0.004
90	EMERGENCY STOP	ZBY-8330	0.008
	ARRET D'URGENCE	ZBY-8130	0.008
	NOT-AUS	ZBY-8230	0.008

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 ZB5-B sub-assemblies for user assembly : bodies + heads

Complete bodies (fixing collar + single contact block)

Description	Type of contact		Reference	Weight kg
	N/O	N/C		
Screw clamp terminal connections	–	1	ZB5-AZ102	0.021
	–	2	ZB5-AZ104	0.030
	1	1	ZB5-AZ105	0.030
	1	2	ZB5-AZ141	0.040



ZB5-AZ102

Mushroom heads for latching pushbuttons (Emergency stop : red)

Shape of head	Type of push	Push Ø mm	Colour	Reference	Weight kg
	Trigger action Push-pull (2)	40	Red	ZB5-AT84	0.050
	Trigger action Turn to release (2)	30	Red	ZB5-AS834	0.042
		40	Red	ZB5-AS844	0.046
	Trigger action Key release (n° 455) (2)	30	Red	ZB5-AS934	0.068
		40	Red	ZB5-AS944 (1)	0.071
		60	Red	ZB5-AS964	0.092
	Trigger action Key release (n° 4A185) (2)	40	Red	ZB5-AS944D	0.071



ZB5-AT84



ZB5-AS844



ZB5-AS934

(1) Other key numbers :

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

Example : The reference for a Ø 40 mm red mushroom head for a trigger action, latching pushbutton, with release by key n° 421E ; becomes : **ZB4-AS94412**.

(2) Maximum number of contact blocks fitted to associated body : 4.

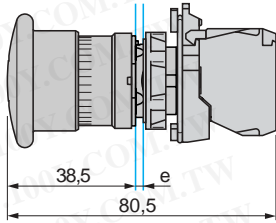
Dimensions

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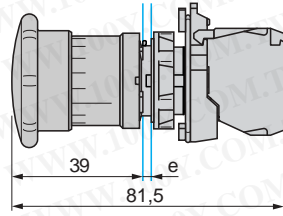
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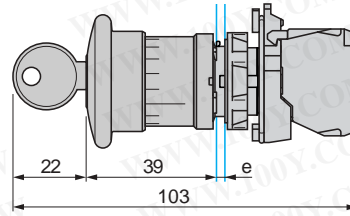
Emergency stop mushroom head pushbuttons
XB5-AT845



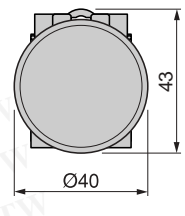
XB5-AS8445



XB5-AS9445



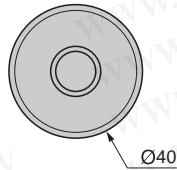
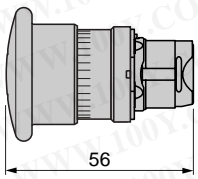
Common face view



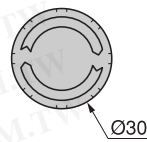
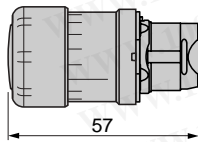
e : panel thickness 1 to 6 mm.

Heads for latching mushroom head pushbuttons

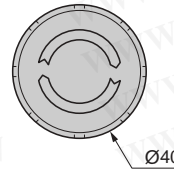
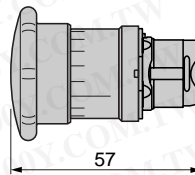
Push-pull
ZB5-AT84



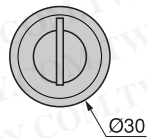
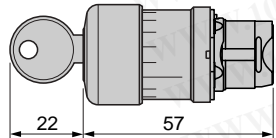
Turn to release
ZB5-AS834



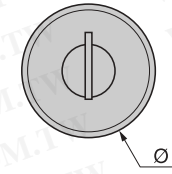
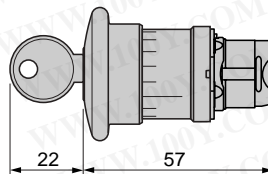
ZB5-AS844



Key release
ZB5-AS934

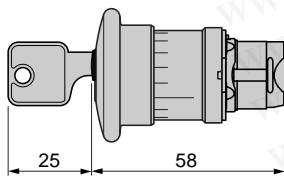


ZB5-AS944, AS964

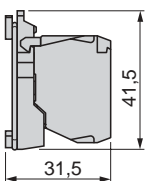


ZB5-	Ø
AS14, AS944	40
AS24, AS964	60

ZB5-AS944D



Bodies for pushbuttons,
screw clamp terminal connections
ZB5-AZ10, AZ141



Support panel cut-out

