

HB2

SERIES

22 mm Industrial Pushbutton Switches

Push Buttons | Selector Switches
Emergency Stops | Key Selectors

OPEN THE SMART FUTURE

ENGLISH E-CATALOGUE | V2



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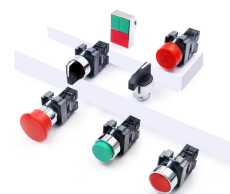
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Series Features

Metal construction, modular architecture and reliable panel protection



HIGH VIBRATION RESISTANCE

A chrome-plated metal operator and mounting collar are secured by angled screws, providing high resistance to vibration and reliable operation under demanding conditions.



MODULAR DESIGN

The HB2 Series combines an operator head, mounting collar and contact blocks. Secure screw connections allow additional modules to be stacked as required.



OUTSTANDING PERFORMANCE

Durable surface finishing provides bright colors with good wear and fade resistance. Front-panel protection is IP65; selected products can reach IP67 when fitted with a protective cover.



Model Designation

Replace each placeholder with the required operator, color, contact and voltage code

HB2

OPERATOR
head / action

COLOR
▲

CONTACT
□

VOLTAGE
○

OPERATOR CODES

A Flush

Z Latching flush

W3 Illuminated flush

Z3 Latching illuminated flush

L Projected

LZ Latching projected

P Guarded

PZ Latching guarded

D Short-lever selector

J Long-lever selector

C Ø40 mushroom

CZ Ø40 latching mushroom

R Ø60 mushroom

RZ Ø60 latching mushroom

T Push-pull reset mushroom

S Turn-to-release emergency stop

G Key selector

L83 Double push button

SELECTOR ACTION CODES

2 2-position maintained

3 3-position maintained

4 2-position spring return from right

5 3-position spring return to center

7 Right maintained / left spring return

8 Left maintained / right spring return

KEY-SELECTOR CODES

2 2-position, key out left

4 2-position, key out both

6 2-position spring return, key out left

0 3-position, key out all

3 3-position, key out center

5 Right maintained / left spring, key out center

7 Spring return to center, key out center

9 3-position, key out left

COLORS

R Red

G Green

Y Yellow

W White

B Blue

K Black

CONTACT CODES

01 1NC

02 2NC

03 3NC

10 1NO

20 2NO

30 3NO

11 1NO + 1NC

22 2NO + 2NC

33 3NO + 3NC

LAMP VOLTAGE CODES

6 AC/DC 6 V

12 AC/DC 12 V

24 AC/DC 24 V

36 AC/DC 36 V

48 AC/DC 48 V

110 AC/DC 110 V

220 AC/DC 220 V

220 AC 220 V

380 AC 380 V

Recommended maximum: three module levels / six contact blocks. Other contact combinations may be assembled from individual NO and NC blocks.

Technical Specifications

Ratings and installation data retained from the original HB2 catalogue

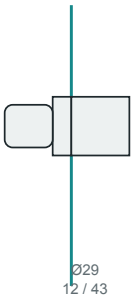
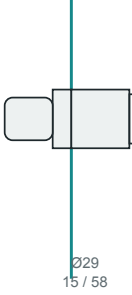
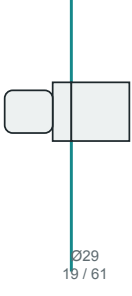
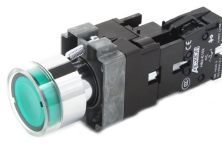
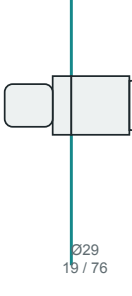
Applicable standards	GB 14048.5 / EN 60947-5-1
Operating temperature	-25 °C to +55 °C
Vibration resistance	< 500 Hz; amplitude 1.0 mm
Shock resistance	Push button 70 g; mushroom button 15 g; selector switch 200 g
Degree of protection	IP40; IP65 available as a customized configuration
Rated insulation voltage U_i	415 V
Rated impulse withstand voltage U_{imp}	6 kV
Conventional thermal current I_{th}	10 A
Utilization category AC-15	3 A at 240 V; 1.9 A at 380 V
Utilization category DC-13	0.55 A at 125 V; 0.27 A at 250 V
Contact resistance	$\leq 50 \text{ m}\Omega$
Mechanical life	Push button / selector / key selector: 1,000,000 operations; emergency stop: 300,000 operations
Electrical life	100,000 operations
Screw-terminal capacity	Minimum $1 \times 0.5 \text{ mm}^2$; maximum $2 \times 1.5 \text{ mm}^2$ with or without ferrules, or $1 \times 2.5 \text{ mm}^2$

Protection note: The original HB2 source states IP40 as standard and IP65 as a customized configuration. Product-specific protection should be confirmed when ordering.

Flush & Illuminated Push Buttons

Momentary and maintained operators with optional LED illumination

FLUSH & ILLUMINATED PUSH BUTTONS

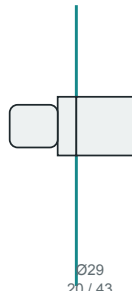
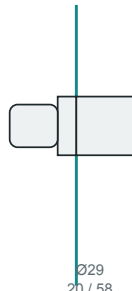
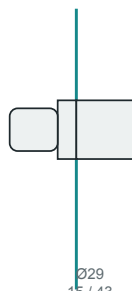
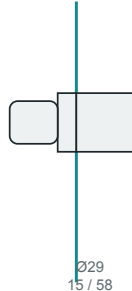
Type	Photo	Function / Model	Ordering Options	Dimensions (mm)
Flush push button Momentary		Momentary HB2-A/▲□	R Red G Green Y Yellow W White B Blue K Black Contacts 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 Ø29 12 / 43
Flush push button Maintained		Latching / maintained HB2-Z/▲□	R Red G Green Y Yellow W White B Blue K Black Contacts 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 Ø29 15 / 58
Illuminated push button Momentary		Momentary, illuminated HB2-W3/▲□-○	R / G / Y / W / B Contacts 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33 Voltage AC/DC 6, 12, 24, 36, 48, 110, 220 V AC 220 / 380 V	 Ø29 19 / 61
Illuminated push button Maintained		Latching, illuminated HB2-Z3/▲□-○	R / G / Y / W / B Contacts 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33 Voltage AC/DC 6, 12, 24, 36, 48, 110, 220 V AC 220 / 380 V	 Ø29 19 / 76

- Replace ▲ with the color code and □ with the contact code. Common contact combinations are shown; users may assemble other combinations. For best mechanical strength, use no more than three module levels / six contact blocks.

Projected & Guarded Push Buttons

Raised operators and protective shrouds

PROJECTED & GUARDED PUSH BUTTONS

Type	Photo	Function / Model	Ordering Options	Dimensions (mm)
Projected push button Momentary		Momentary HB2-L/▲□	R Red G Green Y Yellow B Blue K Black Contacts 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 Ø29 20 / 43
Projected push button Maintained		Latching / maintained HB2-LZ/▲□	R Red G Green Y Yellow B Blue K Black Contacts 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 Ø29 20 / 58
Guarded push button Momentary		Momentary HB2-P/▲□	R Red G Green Y Yellow B Blue K Black Contacts 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 Ø29 15 / 43
Guarded push button Maintained		Latching / maintained HB2-PZ/▲□	R Red G Green Y Yellow B Blue K Black Contacts 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 Ø29 15 / 58

- Replace ▲ with the color code and □ with the contact code. Common contact combinations are shown; users may assemble other combinations. For best mechanical strength, use no more than three module levels / six contact blocks.

Short- and long-lever operators

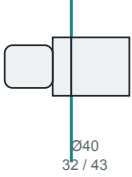
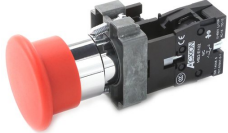
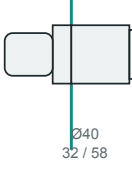
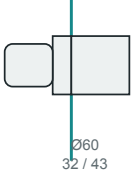
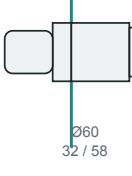
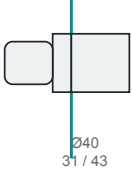
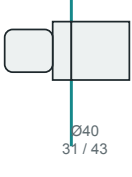
Type	Photo	Function / Model	Ordering Options	Dimensions (mm)
Short-lever selector switch		D2 2-position maintained D4 2-position spring return from right D3 3-position maintained D5 3-position spring return to center D7 right maintained / left spring return D8 left maintained / right spring return	Model HB2-D[action]/□ Contacts 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	
Long-lever selector switch		J2 2-position maintained J4 2-position spring return from right J3 3-position maintained J5 3-position spring return to center J7 right maintained / left spring return J8 left maintained / right spring return	Model HB2-J[action]/□ Contacts 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	

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Mushroom & Emergency-stop Buttons

Ø40 mm and Ø60 mm mushroom operators

MUSHROOM & EMERGENCY-STOP BUTTONS

Type	Photo	Function / Model	Ordering Options	Dimensions (mm)
Ø40 mushroom Momentary		HB2-C/▲□	R / G / Y / K / B 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 Ø40 32 / 43
Ø40 mushroom Maintained		HB2-CZ/▲□	R / G / Y / K / B 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 Ø40 32 / 58
Ø60 mushroom Momentary		HB2-R/▲□	R / G / K 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 Ø60 32 / 43
Ø60 mushroom Maintained		HB2-RZ/▲□	R / G / K 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 Ø60 32 / 58
Push-pull reset mushroom		HB2-T/▲□	R 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 Ø40 31 / 43
Turn-to-release emergency stop		HB2-S/▲□	R 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 Ø40 31 / 43

- Replace ▲ with the color code and □ with the contact code. Common contact combinations are shown; users may assemble other combinations. For best mechanical strength, use no more than three module levels / six contact blocks.

Key-removal options and compact start/stop operator

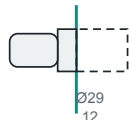
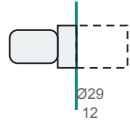
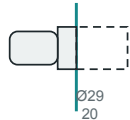
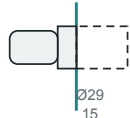
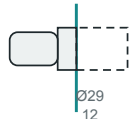
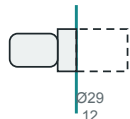
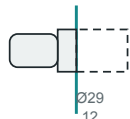
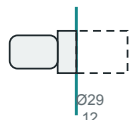
Type	Photo	Function / Model	Ordering Options	Dimensions (mm)
Key selector switch		G2 2-position; key removable left G4 2-position; key removable both G6 spring return from right; key removable left G0 3-position; key removable all G3 3-position; key removable center G5 right maintained / left spring; key removable center G7 spring return to center; key removable center G9 3-position; key removable left	Model HB2-G[action]/□ Contacts 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 Ø29 23 + 21 / 43
Double push button		Momentary HB2-L83/▲▲□ Upper and lower button colors are specified separately.	R / G Contacts 01, 10, 11, 02, 20, 12, 21, 03, 30, 22, 31, 13, 32, 23, 33	 55 high 12 / 61

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Push-button Heads

Operator heads for modular HB2 assemblies

PUSH-BUTTON HEADS

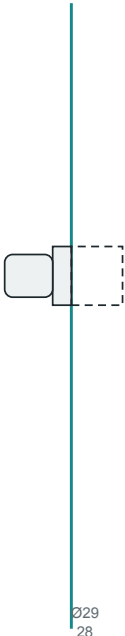
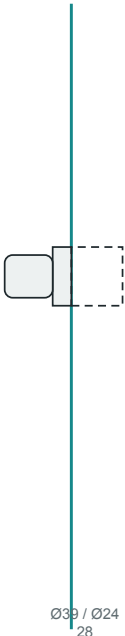
Type	Photo	Function / Model	Ordering Options	Dimensions (mm)
Flush push-button head		HB2-A/▲	R Red G Green Y Yellow W White B Blue K Black	
Illuminated push-button head		HB2-W3/▲	R / G / Y / W / B	
Projected push-button head		HB2-L/▲	R Red G Green Y Yellow B Blue K Black	
Guarded push-button head		HB2-P/▲	R Red G Green Y Yellow B Blue K Black	
Symbol head — I		HB2-A/▲ "I"	R Red G Green Y Yellow W White B Blue K Black	
Symbol head — arrow		HB2-A/▲ "ARROW"	R Red G Green Y Yellow W White B Blue K Black	
Symbol head — O		HB2-A/▲ "O"	R Red G Green Y Yellow W White B Blue K Black	
Symbol head — STOP		HB2-A/▲ "STOP"	R Red G Green Y Yellow W White B Blue K Black	

● Replace ▲ with the required color code. Head assemblies are supplied without contact blocks unless stated otherwise.

Selector-switch Heads

Short- and long-lever selector heads

SELECTOR-SWITCH HEADS

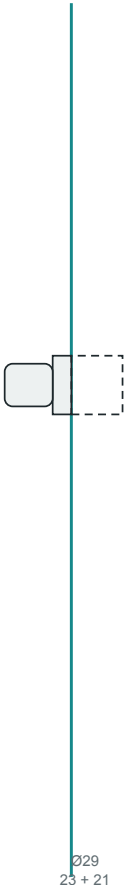
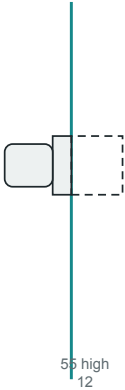
Type	Photo	Function / Model	Ordering Options	Dimensions (mm)
Short-lever selector head		D2 2-position maintained D4 2-position spring return from right D3 3-position maintained D5 3-position spring return to center D7 right maintained / left spring return D8 left maintained / right spring return	HB2-D[action]	 Ø29 28
Long-lever selector head		J2 2-position maintained J4 2-position spring return from right J3 3-position maintained J5 3-position spring return to center J7 right maintained / left spring return J8 left maintained / right spring return	HB2-J[action]	 Ø39 / Ø24 28

Select the head by operator style and action code. Contact blocks and mounting collar are ordered separately.

Key-selector & Double-button Heads

Standalone operator heads for modular assembly

KEY-SELECTOR & DOUBLE-BUTTON HEADS

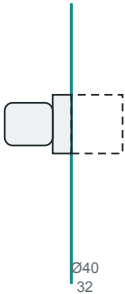
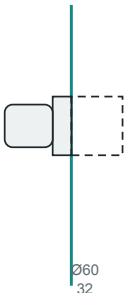
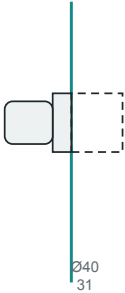
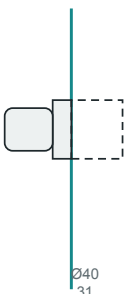
Type	Photo	Function / Model	Ordering Options	Dimensions (mm)
Key-selector head		G2 key removable left G4 key removable both G6 spring return; key removable left G0 key removable all G3 key removable center G5 mixed return; key removable center G7 spring return to center; key removable center G9 key removable left	HB2-G[action]	 Ø29 23 + 21
Double-button head		HB2-L83/▲▲ Upper and lower colors are specified separately.	R / G	 56 high 12

● Replace ▲ with the required color code. Head assemblies are supplied without contact blocks unless stated otherwise.

Mushroom & Emergency-stop Heads

Large operators for prominent manual control

MUSHROOM & EMERGENCY-STOP HEADS

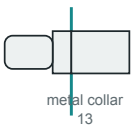
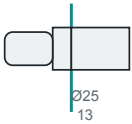
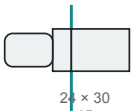
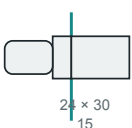
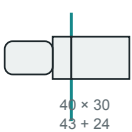
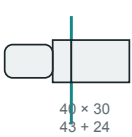
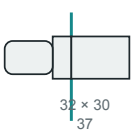
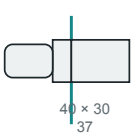
Type	Photo	Function / Model	Ordering Options	Dimensions (mm)
Ø40 mushroom head		HB2-C/▲	R / G / Y / K / B	
Ø60 mushroom head		HB2-R/▲	R / G / K	
Push-pull reset mushroom head		HB2-T/▲	R	
Turn-to-release emergency-stop head		HB2-S/▲	R	

● Replace ▲ with the required color code. Head assemblies are supplied without contact blocks unless stated otherwise.

Modules

Mounting, contact and illumination modules

MODULES

Type	Photo	Function / Model	Ordering Options	Dimensions (mm)
Metal mounting collar		HB2-H	—	 metal collar 13
Latching mechanism		HB2-F	—	 Ø25 13
NC contact block		HB2-NC	1NC (01)	 24 × 30 15
NO contact block		HB2-NO	1NO (10)	 24 × 30 15
NC contact-block assembly		HB2-BNC	1NC (01)	 40 × 30 43 + 24
NO contact-block assembly		HB2-BNO	1NO (10)	 40 × 30 43 + 24
LED module		HB2-W	AC/DC 6, 12, 24, 36, 48, 110, 220 V AC 220 / 380 V	 32 × 30 37
LED module base		HB2-BW	—	 40 × 30 37

● Module names follow the component structure shown in the original catalogue. Confirm voltage and contact function before ordering.

Installation & Panel Cutouts

Mounting procedure and minimum operator spacing

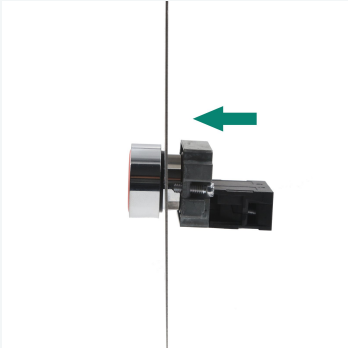
INSTALLATION PROCEDURE

1



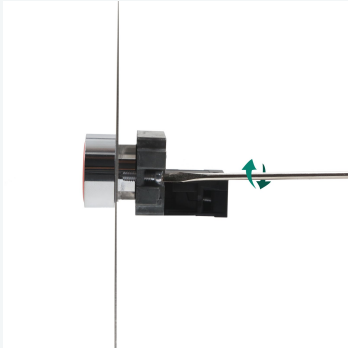
Insert the operator head and gasket through the panel cutout.

2



Rotate the head to the required orientation. Snap the contact base into place behind the panel and align the bolts with the threaded holes.

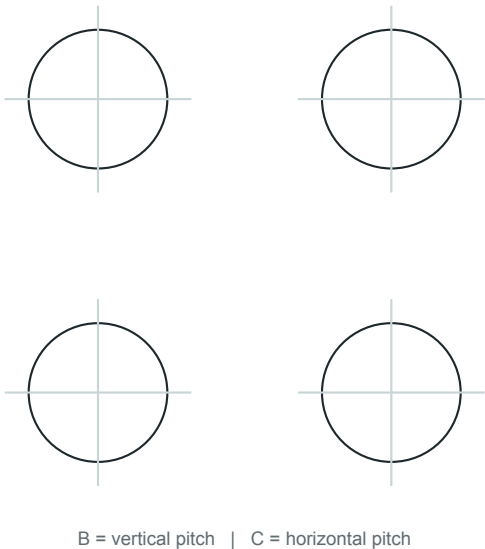
3



Tighten the two metal screws evenly. Add contact blocks, align them correctly and tighten securely.

PANEL CUTOUT AND MINIMUM SPACING

Panel cutout A: $\varnothing 22.3 +0.4 / 0 \text{ mm}$



Operator type	B (mm)	C (mm)
Standard push button	≥ 50	≥ 35
Selector / key selector	≥ 50	≥ 35
Ø40 mushroom	≥ 50	≥ 42
Ø60 mushroom	≥ 70	≥ 70
Double push button	≥ 60	≥ 35

B and C are minimum center-to-center dimensions. Units: mm.

Continue the Conversation

For model selection, quotation support or technical questions, contact our export team

MANUFACTURED BY



Jiangsu Acxion Electric Co., Ltd.

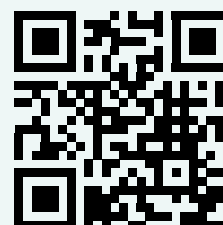
Address No.1057 Zhencheng Road, Lingang New City, Jiangyin, Jiangsu, China

Telephone +86 15852658965

WhatsApp +86 15852658965

E-mail acxionelectric@gmail.com

Website www.acxionelectric.com



SCAN TO VISIT WEBSITE

Need help with model selection?

Send us the required operator type, contact arrangement, voltage, color and installation requirements. We can help confirm the appropriate HB2 configuration.



HB2 SERIES

22 mm Industrial Pushbutton Switches



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