

Components for BZC8050 Control Stations

BK8050 Series Control Switches

- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
 - Class I, Zone 1 and Zone 2
 - Class I, Division 2, Groups A, B, C, D
- ◆ Number of pole: 2P, 3P, 4P, 6P.
- ◆ Available in latching and spring-return forms.



Catalogue number logic

BK8050(K for short)



Technical data

Control switches BK8050

Explosion protection

Global (IECEX)

IECEX CQM 11.0011U

Gas

Ex db eb IIC Gb

Europe (ATEX)

LCIE 09 ATEX 3096U

Gas

Ex II 2 G Ex db eb IIC Gb

Certificates

IECEX; ATEX; CU-TR

Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-7

IEC 60079-0, IEC 60079-1, IEC 60079-7

Enclosure material

Plastic

Rated voltage

AC: 500V, 460V, 440V, 400V, 380V, 230V

AC/DC: 220V, 110V, 48V, 36V, 24V, 12V

Rated current

Max. 20A

Switch angle

n x 45°/n x 90°

Service life

10⁵ times

Ambient temperature

-20°C~+70°C(ATEX), -60°C~+90°C(IECEX)

Cable connection

2.5mm²

Material of rotary actuator

Polycarbonate (PC)

Panel material

Acrylonitrile-butadiene-styrene (ABS)

Seal material

Nitrile butadiene rubber (NBR)



Zones 1&2; 21&22

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Selection table of control switches

Control switch code	Chart of contact	Equivalent switch	Position (solid line: location; dash line: spring return)	Instruction for equivalent function
A				A.Functional wiring is the same as double buttons with auto-reset function.
B				B.Functional wiring is the same as double buttons; auto-reset after start; lock-stop gear added to avoid mistake operation.
C				C.Button with 2 NO contacts and available at auto-reset function. Suitable for high-voltage engine control circuit or function panel uses switch code "a" .
D				D.Low-power switch.
E				E.Function is the same as three buttons; able to control engine in forward and backward rotation. FW&BW starting positions can auto-reset.
F				F.Selection switch with stop gear.
G				G.Be equal to mounting two buttons and one changeover switch in one axis. Possible to output contact signal or monitoring signal between start and stop.
H				H.Multi-signals transmit gradually.

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I				I. Add function of transmitting resultant signal on the base of function panel uses switch code "h".
J				J. Two positions step; change-over gradually.
K				K. Changeover switch.
L				L. Selection switch with three poles and two launches.
M				M. Three-position changeover switch among auto, manual and start; auto-reset after start; it can convert to auto gear only after passing stop gear.
N				N. Structure is a little different to universal structure of switch code "m"; it directly rotates to auto gear without passing stop gear after starts.
O				O. Double contacts auto reset for start, with lock-stop gear; lock switch at stop gear to prevent mistake operation.

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P				P.Double contacts for stop, to substitute switch code "a" and "c" for start and stop; auto-reset.
Q				Q.Stop with double contacts, with lock stop gear; auto-reset after start; possible to add lock-stop gear to lock switch at stop to prevent mistake operation.
R				R.Double contacts for both start and stop; it is same as universal panel of switch code "a", with auto-reset for start and stop.
S				S.Transmit a contact signal before start and stop.
T				T.With lock-stop gear for start and stop to prevent mistake operation; without auto-reset.
U				U.Double-control selection switch.
V				V.Changeover switch for voltage phase-changing and measuring.
W				W.One 2NO auto-reset pushbutton, both left and right are the same.
X				X.Two 2NO auto-reset buttons.

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Y				Y. Self-reset button with 4 normally open contacts.
Z				Z. Power supply program switch, disconnected in the middle, close to left and right, can be used as a fire-fighting switch.
a				a. Used for starting and inching hybrid circuits.
b				b. Double linkage switch.
e				e. Emergency stop switch.
f				f. 2 normally open and 2 normally closed option switches.
g				g. Double control option switch (make before break)



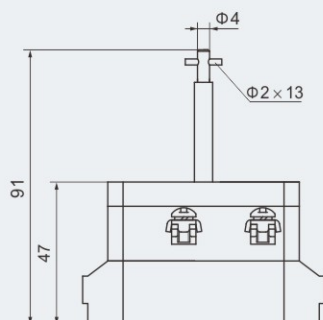
Accessories

Description	Illustration	Ordering code	Weight (kg)
Rotary actuator (padlockable)		40119	0.05

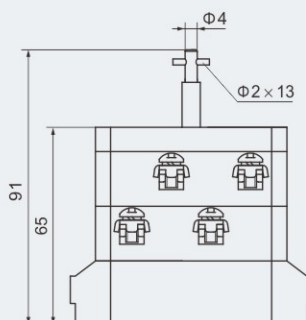
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BK8050 Series Control Switches

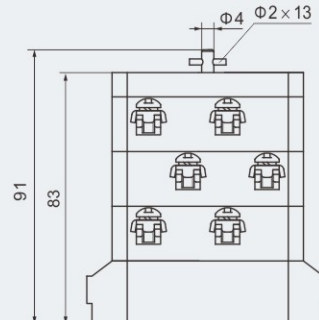
Dimension drawings (all dimensions in mm) - subject to alteration



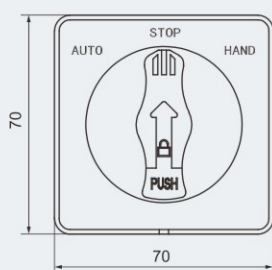
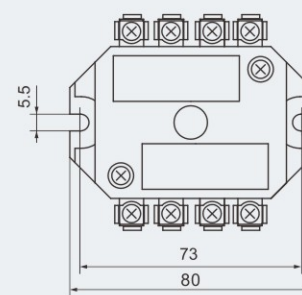
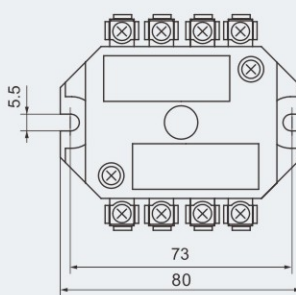
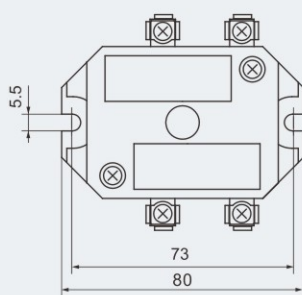
Control switch 2 poles



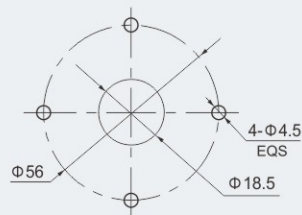
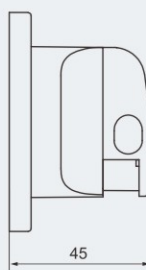
Control switch 3 or 4 poles



Control switch 6 poles



Rotary actuator



Mounting hole