

## Components for BZC Control Stations HK 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 1, Groups A, B, C, D
- ◆ Available in latching and spring-return forms.
- ◆ Different function options.
- ◆ Number of pole: 2P, 3P, 4P, 6P.
- ◆ The switch shall be fitted inside Ex d enclosure.
- ◆ Standard products do not have locks. If you need locks, please specify.
- ◆ Standard products can be equipped with locks, locks can be chosen by user.

### ■ Catalogue number logic

HK(K for short)



### Technical data

#### HK Control Switches

##### Explosion protection

Global (IECEX)

IECEX CML 17.0166U

Gas and dust

Ex db IIC Gb

Ex tb IIIC Db

Europe (ATEX)

CML 17 ATEX 1306U

Gas and dust

Ex II 2 G Ex db IIC Gb

Ex II 2 D Ex tb IIIC Db

##### Certificates

IECEX; ATEX; CU-TR

##### Conformity to standards

EN 60079-0, EN 60079-1, EN 60079-31

IEC 60079-0, IEC 60079-1, IEC 60079-31

##### Rated voltage

500V AC, 400V DC

##### Rated current

16A

##### Degree of protection

IP66

##### Ambient temperature

-60°C~+70°C

## Zones 1&2; 21&22

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Selection table				
Switch code	Chart of contact	Equivalent switch	Position (solid line: location; dash line: spring return)	Instruction for equivalent function
A				A. Functional wiring is same as double buttons with auto-reset function.
B				B. Functional wiring is 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 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 in the intermediate zone.
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.
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.



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Switch code	Chart of contact	Equivalent switch	Position (solid line: location; dash line: spring return)	Instruction for equivalent function
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.
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.
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.



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Switch code	Chart of contact	Equivalent switch	Position (solid line: location; dash line: spring return)	Instruction for equivalent function
W				W. One 2NO auto-reset pushbutton, both left and right are the same.
X				X. Two 2NO auto-reset buttons.
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.



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

