

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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|-------------|------------------|-------------------|---|---|
| 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

