

# Explosion-proof Control Station

## KBX05 - Series

 II 2 G Ex db eb IIC T6 Gb

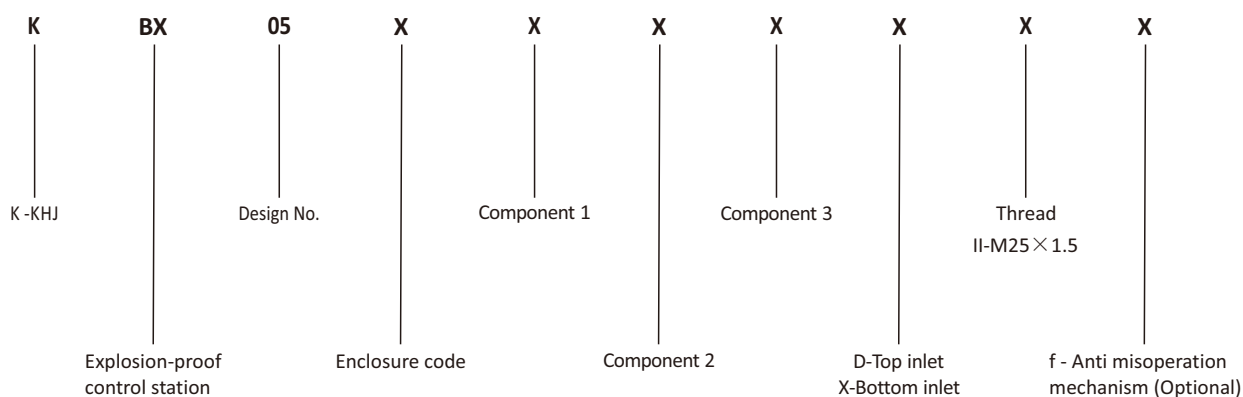
 II 2 D Ex tb IIIC T80°C Db

### 1. Application and Features

- Explosion proof certificates
  - ATEX : SEV 22 ATEX 0606 X
  - IECEx : IECEx SEV 22.0011X
- Application in hazardous area
  - Zone 1 and Zone 2,
  - Zone 21 and Zone 22
- Three types of enclosure size, built-in explosion-proof components (control button, control switch, signal lamp, potentiometer, ammeter, etc.).  
The components is rail mounting type, which can be installed on the guide rail quickly and accurately, easy for installation and maintenance.
- Component arrangement can be combined upon request.
- Emergency stop can be equipped with anti misoperation mechanism and padlock (If need).
- Stainless steel exposed fastener, anti dropping structure, easy for installation and maintenance.



### 2. Product definition



**Note:**

1. Rain shade can be customized upon request.

Model example:

KBX05-07/R01F-A1/I/02FX II: 07# enclosure, equipped with one signal lamp, AC/DC 12-36V, and one push button, 1NO+1NC, with marking "I", bottom inlet M25X1.5.

### 3. Technical Parameter

|                      |                                         |                                                                                                               |                     |
|----------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------|---------------------|
| Ex marking           | Gas                                     | Ⅱ 2 G Ex db eb IIC T6 Gb                                                                                      | Ex db eb IIC T6 Gb  |
|                      | Dust                                    | Ⅱ 2 D Ex tb IIIC T80°C Db                                                                                     | Ex tb IIIC T80°C Db |
| Exectutive standards |                                         | IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31<br>EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-31        |                     |
| Enclosure material   | Enclosure                               | GRP (Polyester resin, glass fibre reinforced), antistatic                                                     |                     |
|                      | Rain shade                              | Bended steel plate surface powder coated (black color)<br>or stainless steel 304/316, please note when needed |                     |
| Enclosure color      |                                         | Black                                                                                                         |                     |
| Enclosure material   |                                         | Stainless steel, anti-drop structure.                                                                         |                     |
| Rated voltage        |                                         | Max 415V AC, 250V DC                                                                                          |                     |
| Rated current        |                                         | 6A、10A、16A                                                                                                    |                     |
| Wire diameter        | ≤6A: 0.75~2.5mm <sup>2</sup>            |                                                                                                               |                     |
|                      | 6A<I≤10A: 1.5~2.5mm <sup>2</sup>        |                                                                                                               |                     |
|                      | 10A<I≤16A: 2.5mm <sup>2</sup>           |                                                                                                               |                     |
| Degree of protection |                                         | IP66                                                                                                          |                     |
| Ambient temperature  |                                         | -40°C ~+40/45/50/55/60/65/70°C                                                                                |                     |
| Built-in components  | K0101 explosion-proof control button.   |                                                                                                               |                     |
|                      | K0102 explosion-proof signal lamp.      |                                                                                                               |                     |
|                      | K0101-S explosion-proof control switch. |                                                                                                               |                     |
|                      | K0109 explosion-proof ammeter.          |                                                                                                               |                     |
| Installation method  |                                         | Hanging type                                                                                                  |                     |
| Cable entries        |                                         | Φ 25.5mm<br>The cable gland is not available when delivery, please indicate if necessary.                     |                     |

### 4. Components and Accessories



K0101-Control button



K0101-A2 Two control button



K0102-Signal lamp



K0101-A Control button with signal lamp



K0109-Ammeter



$\phi 38$  Operating handle



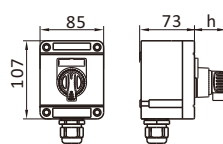
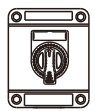
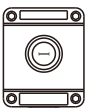
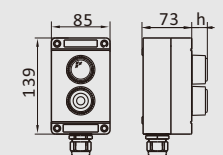
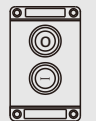
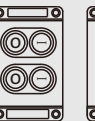
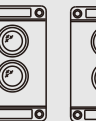
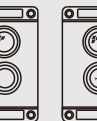
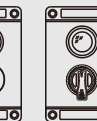
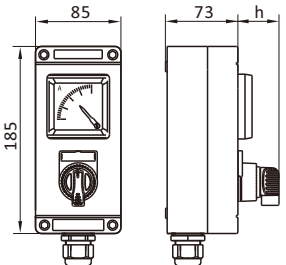
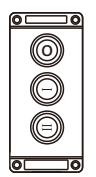
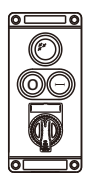
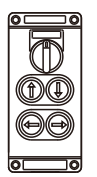
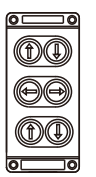
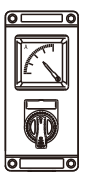
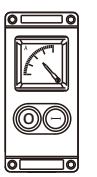
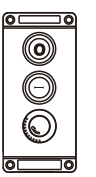
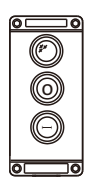
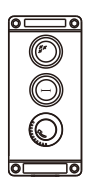
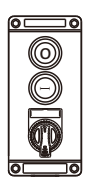
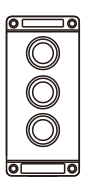
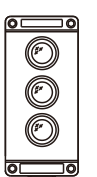
$\phi 65$   
Operating handle  
(padlock available)



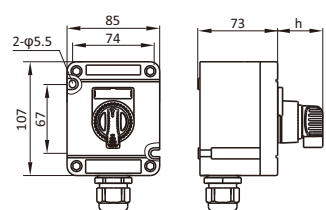
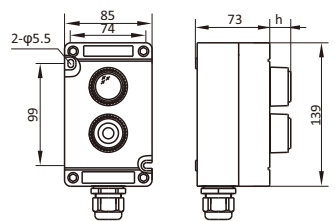
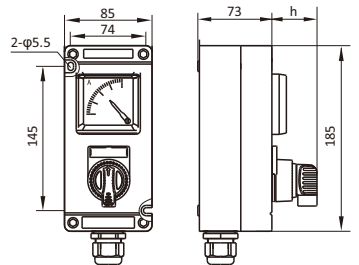
Square operating handle

**Note:** 1. Installation area of 1 pcs K0109-48 is same as 2 pcs buttons;  
2. Installation area of 1 pcs  $\phi 65$  operating handle or 1 pcs square operating handle is same as 2 pcs buttons.

## 5. Selection table (mm)

| Outline                                                                                          | Component layout                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>03#</b><br>  |  301  302  303  304  305  306                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>07#</b><br>  |  701  702  703  704  705  706  707  708  709                                                                                                                                                                                                                                                                                                                                                                               |
| <b>11#</b><br> |  1101  1102  1103  1104  1105  1106  1107  1108  1109  1110  1111  1112  1113 |

## 6. Outline and Installation (mm)

|                                                                                                |                                                                                                |                                                                                                  |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|  <p>03#</p> |  <p>07#</p> |  <p>11#</p> |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|

| Component accessories                   | h (mm) |
|-----------------------------------------|--------|
| Meter frame                             | 11     |
| Standard button                         | 20.5   |
| Double button                           | 21.5   |
| Button with key                         | 38(62) |
| Emergency stop button with self-locking | 40     |
| Mushroom head button                    | 32     |
| Mushroom head button with key           | 45(69) |

| Component accessories       | h (mm) |
|-----------------------------|--------|
| Indicator light             | 23.5   |
| Illuminated control button  | 20.5   |
| Control switch S1、S3        | 40     |
| Control switch S2           | 42     |
| Potentiometer (single-turn) | 27     |
| Potentiometer (multi-turn)  | 40.5   |
| —                           | —      |