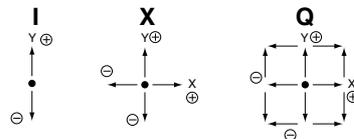


40JE

Nomenclature

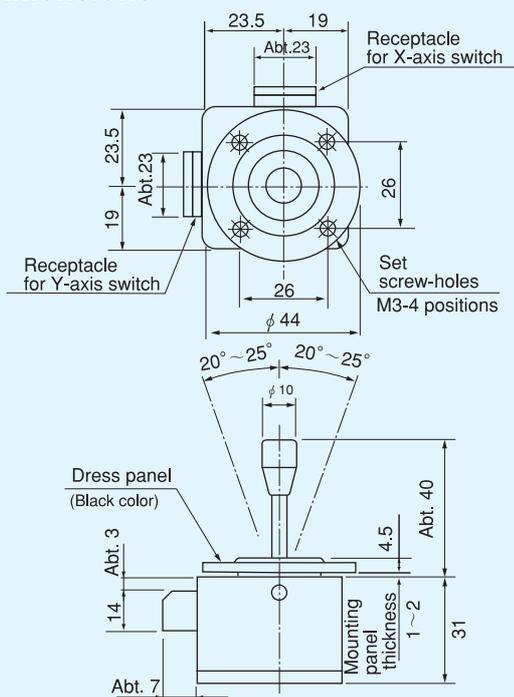
- **S** means special mechanical specifications not applicable to our standard.
- **40** means approx. size of base housing in mm.
- **J** means joystick controller.
- **Kind of types**
E means 1- or 2- dimensional coordinates is available and also means digital code switch is incorporated.
- **K** means square shape.
- **Mechanism**
X means 1-dimensional coordinate.
Y means 2-dimensional coordinate.
- **Available directions of lever operation**
Standard version:
Q: Square-directional 360° 2-dimensional coordinate type.
Special version:
I: I figure (Y) directional operating type.
X: Cross direction of X and Y operating type.



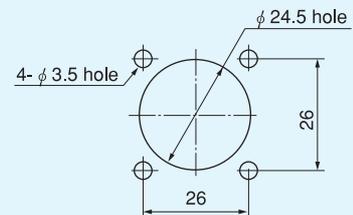
S **40** **J** **E** **K-Y** **Q-0** **8** **R2** **G** - **00000**

- **Number of potentiometers to be incorporated.**
0...no potentiometer incorporated.(No.potentiometer function available)
- **Number of switches to be incorporated.**
7...4bit Gray Digital code switch incorporated.
8...4bit Binary Digital code switch incorporated.
75...5bit Gray Digital code switch incorporated.
- **With spring return device :**
R1 : with spring return device for 1-dimensional coordinate.
R2 : with spring return device for 2-dimensional coordinate.
- **Mounting accessories :**
G : with dust proof rubber cover.
P : with sub-panel for mounting.
- **Special part number :**
In case we produce customized products, we add 4-digit or 5-digit branch number.

Standard Dimensions



Panel Arrangements



- Note : 1) In case of type Q, the angle of mark "※" becomes 360° square-direction and $\pm 20^\circ \sim \pm 25^\circ$ from center position.
2) 4 pcs. of mounting screw (M3 × 8) are attached.

(Unit : mm)



40JEK-YQ-07R2 (4 bit gray code)
40JEK-YQ-08R2 (4 bit binary code)
40JEK-YQ-075R2 (5 bit gray code)
 (Standard)
 (2-dimensional coordinate type)



40JEK-YQ-07R2G (4 bit gray code)
40JEK-YQ-08R2G (4 bit binary code)
40JEK-YQ-075R2G (5 bit gray code)
 (2-dimensional coordinate type)
 with dust-proof rubber cover)

STANDARD SPECIFICATIONS

Model 40JE Series (Switch inside-incorporated type)

●Mechanical Performance

Controlling range of operating lever :

- 2-dimensional coordinate type : 360° and square-directionally approx. $\pm 20^\circ \sim \pm 25^\circ$ operation from center position.

Operating Force : Standard spring return device : Automatically return to center : Approx. 1.6~3N (160~300gf)

Operating temperature range : $-20^\circ\text{C} \sim +65^\circ\text{C}$

Vibration : 10~55Hz 98m/s²

Shock : 294m/s²

Life expectancy : Approx. 5,000,000 operations.

Mass : Approx. 180g

●Electrical Performance

Switches used : Rating 12V.D.C. below 1mA

Contact resistance : Below 300mΩ

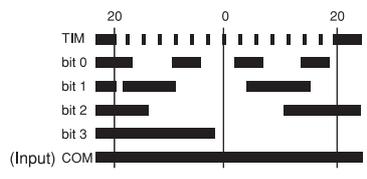
Dielectric strength : 1 minute at 500V.A.C.

Insulation resistance : Over 100M Ω at 250 V.D.C.

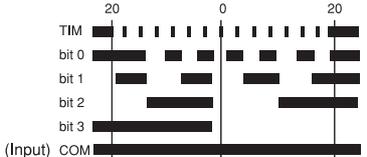
●Pattern of Digital Code Switch

When ordering, please specify on which you require gray code or binary code.

4 bit gray code 40JEK-YQ-07R2

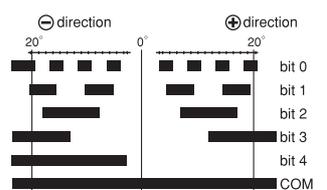


4 bit binary code 40JEK-YQ-08R2



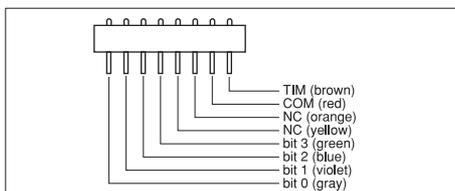
Note : In case of binary code, it is necessary to use the terminal TIM output code as a conversion gate signal.

5 bit gray code 40JEK-YQ-075R2G



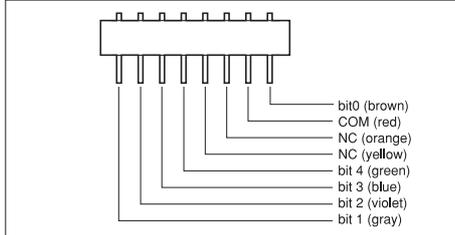
■Plug Connection Diagram

For 4 bit



- Gray code and binary code have same plug connection diagram.
- "NC" means no connection and please do not use this terminal.
- Attached plug has a 300mm length lead wire (AWG28) and other length is also available on request.

For 5 bit



- "NC" means no connection and please do not use this terminal.
- Attached plug has a leadwire of about 300 mm long (flat cable:AWG28) and other length is also available on request.

●Special Specifications Available

Please see page 47, a table of "Standard and Special Specifications Available".