

AT20

INDUSTRIAL JOYSTICK

SAEKAI

The QT-VCSO industrial joystick is primarily designed for AC 50Hz (60Hz) systems with a rated voltage up to 380V (440V). It facilitates various operations in secondary circuits, including motor reversing, speed control, braking, linkage, and pinch control. This joystick can be mounted on the surface of consoles or within portable control boxes. It has found extensive applications across ports, water transport, railways, mining, power generation, construction, and manufacturing sectors

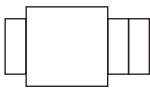
Technical Data

|                    |               |
|--------------------|---------------|
| Temperature Range: | -20°C to 60°C |
| Operating Force:   | ≤50N          |
| Current:           | 10A           |
| Mechanical Life:   | 5M            |
| Protection Level:  | IP65          |

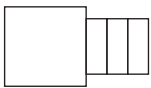


| Selection | Installation variant                                                                                                                                                                                                                                        | Palm Grips | Gate | Panel SIze | Axis1    |                 |           | Axis2    |                 |           | Installation dimensions |  |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------|------------|----------|-----------------|-----------|----------|-----------------|-----------|-------------------------|--|
|           |                                                                                                                                                                                                                                                             |            |      |            | Movement | No. of contacts | Interface | Movement | No. of contacts | Interface |                         |  |
|           | See the detaies in nextpage                                                                                                                                                                                                                                 |            |      |            |          |                 |           |          |                 |           |                         |  |
|           | • SG41Z Lift up zero mechanical interlock<br>• SG6 Push-down zero mechanical interlock<br>See more options in the grip section                                                                                                                              |            |      |            |          |                 |           |          |                 |           |                         |  |
|           | • 1: 1-Axis↑      • 2: Cross gate ⇄<br>• 3: All-direction ※      • 4: Special gate H,C,L and special                                                                                                                                                        |            |      |            |          |                 |           |          |                 |           |                         |  |
|           | • A: Panel size A-type 109 x109      • B: Panel size B type 101x101                                                                                                                                                                                         |            |      |            |          |                 |           |          |                 |           |                         |  |
|           | • Z: Spring return      • R: Friction brake                                                                                                                                                                                                                 |            |      |            |          |                 |           |          |                 |           |                         |  |
|           | • 01 2 contacts      • 02 4 contacts      • 03 6 contacts<br>• 04 8 contacts      • 05 10 contacts                                                                                                                                                          |            |      |            |          |                 |           |          |                 |           |                         |  |
|           | • Voltage output DC24V      • Hall output DC5V      • Current output DC24V      • Potentiometer output<br>V1: -10V~0~+10V      HV1: 0-2.5-5V      I1: 4mA-12mA-20mA      1K   2K   5K   10K<br>V2: +10V~0~+10      Hv2: 0.5-2.5-4.5V      I2: 20mA-4mA-20mA |            |      |            |          |                 |           |          |                 |           |                         |  |
|           | • Z: Spring return      • R: Friction brake                                                                                                                                                                                                                 |            |      |            |          |                 |           |          |                 |           |                         |  |
|           | • 01 2 contacts      • 02 4 contacts      • 03 6 contacts      • 04 8 contacts      • 05 10 contacts                                                                                                                                                        |            |      |            |          |                 |           |          |                 |           |                         |  |
|           | • Voltage output DC24V      • Hall output DC5V      • Current output DC24V      • Potentiometer output<br>V1: -10V~0~+10V      HV1: 0-2.5-5V      I1: 4mA-12mA-20mA      1K   2K   5K   10K<br>V2: +10V~0~+10      Hv2: 0.5-2.5-4.5V      I2: 20mA-4mA-20mA |            |      |            |          |                 |           |          |                 |           |                         |  |
|           | • M1: B-type(67*67)      • X: Customize                                                                                                                                                                                                                     |            |      |            |          |                 |           |          |                 |           |                         |  |

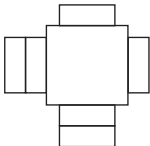
Installation variant



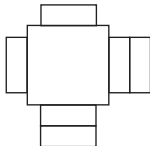
single axis 12



single axis 03



double axis 2121



double axis 1221

Grip



SG41



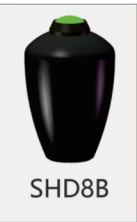
SG41Z



SG1



SG13



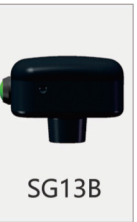
SHD8B



SHD1



SHD4B



SG13B



SB34



SG25



SUGN



SUGA



SG51



SB6



SG21

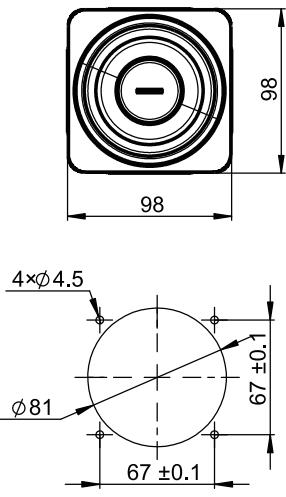
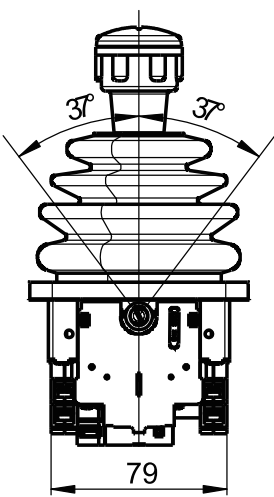
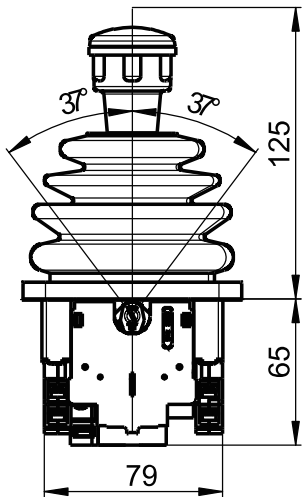


SG9



S9

Dimensions



| No.of contacts | Dim A | Dim B |
|----------------|-------|-------|
| 2              | 41    | 83    |
| 4              | 56    | 98    |
| 6              | 71    | 113   |
| 8              | 86    | 128   |
| 10             | 101   | 143   |