

## Rotary encoder with LCD Switches **SRB2**

### General Description

Display  
 Size : 1.28inch Circle TFT  
 Driver IC : GC9A01  
 Interface Type : SPI (Serial Peripheral Interface)  
 Power Supply : 3.3V  
 Resolution : 240RGB(H) x 240(V)  
 Display Color : Full Color, 262K(max.)  
 Luminance(cd/m2) : 400(cd/m2)  
 Backlight Type : White LED

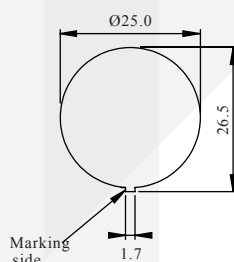
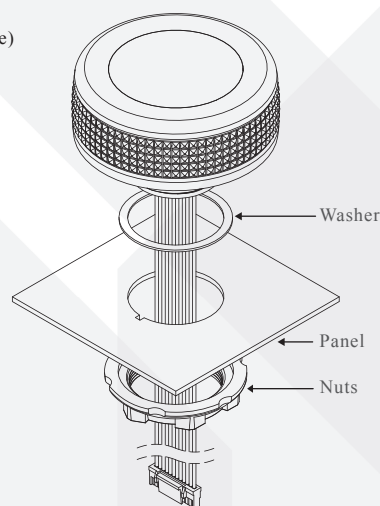
Encoder  
 Transmissive Optical Sensor  
 Power Supply : 5V  
 Output Signal : HIGH & LOW  
 Resolution : 36 step per revolution  
 Operating Life : C.W. 100,000 cycles min.  
 & C.C.W 100,000 cycles min.

Switch  
 Contact Rating : 50mA, 12V DC  
 Resolution : 0.5±0.3mm  
 Operating Life : 100,000 cycles min.

Operation Temperature : -20°C~ 70°C  
 IP Code : IP65

Materials  
 Knob : Polyamide(PA)  
 Lens : Polycarbonate (PC)  
 Base : Polycarbonate (PC)  
 Washer : NBR  
 Nuts : Polyamide(PA)

### Installation Notes

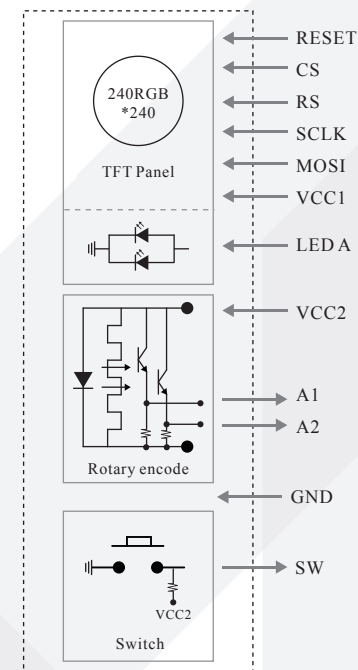
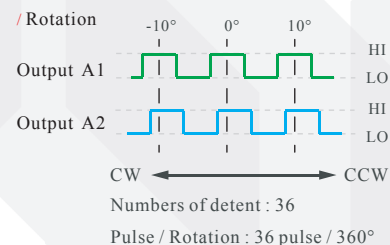


Panel cutting  
 Panel thickness 1.5~4mm

### Block Diagram

#### Pin function

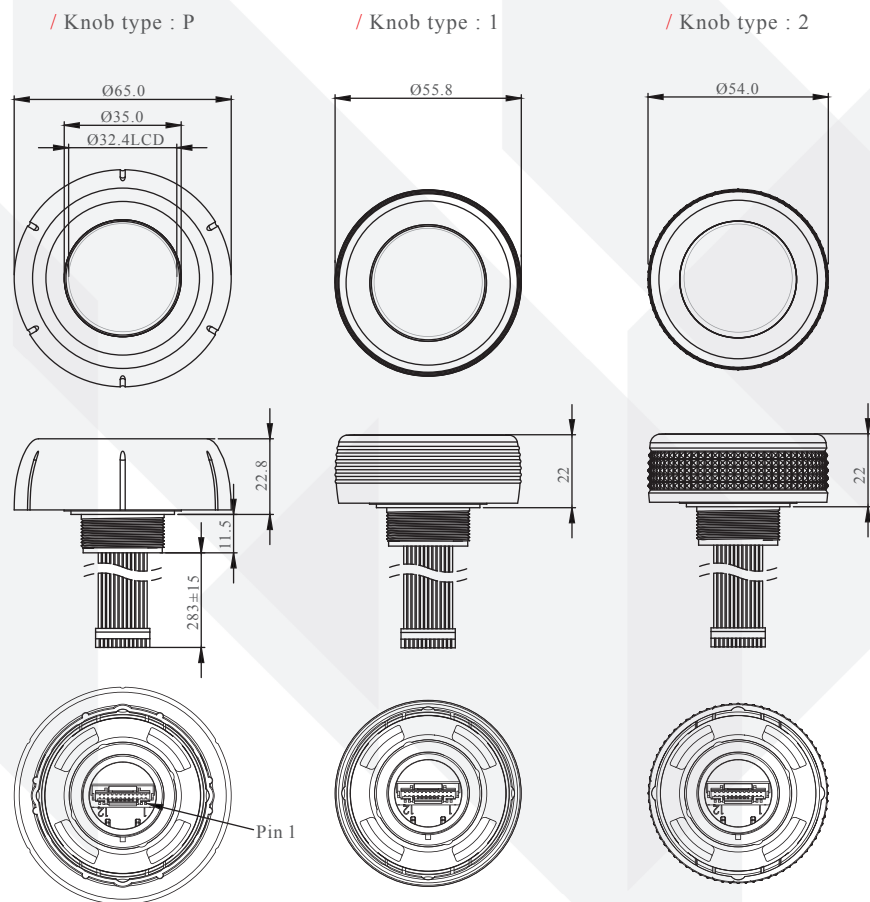
| Pin | Name    | Function                           |
|-----|---------|------------------------------------|
| 1   | LED A   | LCD Backlight VCC                  |
| 2   | SW N.O. | Switch N.O.                        |
| 3   | VCC2    | Rotary Encode Optical Sensor Power |
| 4   | A1      | Rotary Encode Signal, Output       |
| 5   | A2      | Rotary Encode Signal, Output       |
| 6   | MOSI    | LCD Data Signal, Input             |
| 7   | SCLK    | LCD Clock Signal, Input            |
| 8   | RS      | LCD Register Select Signal         |
| 9   | CS      | LCD Chip Select Signal, Input      |
| 10  | RESET   | LCD Reset Signal, Input            |
| 11  | GND     | Ground                             |
| 12  | VCC1    | Switch COM.                        |



The connector on the SRB2 module is similar JST GHR-12V-S  
 Applicable Connector:  
 Conductor pitch / 1.25mm  
 Conductor width / 0.2mm

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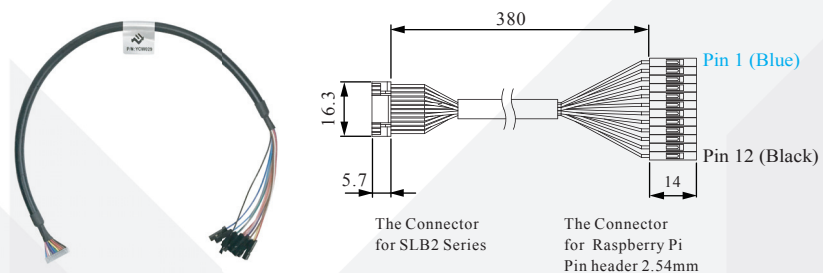
### Dimension



### Option

/ Cable P/N : K-SRB-03

The SLB2 series connect to Raspberry Pi. though cable wire





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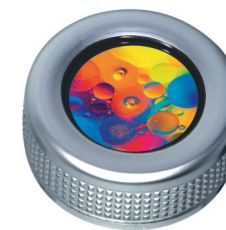
### How to order



**SRB2-PL** | Knob type P / Silver / Plastic



**SRB2-10** | Knob type 1 / Silver / Aluminum



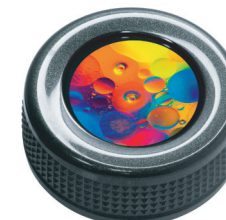
**SRB2-2L** | Knob type 2 / Silver / Plastic



**SRB2-P5** | Knob type P / Black / Plastic



**SRB2-15** | Knob type 1 / Black / Aluminum



**SRB2-25** | Knob type 2 / Black / Plastic