

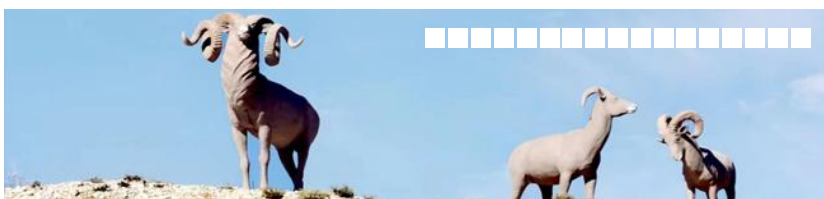


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ELECTRO-MODULE / ROTARY SW

CR02 Series
Rotary Encoder with LCD Switches

1.28" full circle LCD screen, 240(H)RGB*240(V) resolution
 High brightness backlight, 400(cd/m2)
 PWM Backlight control
 36 Optical rotation pulse come with physical feedback
 IP65 dust and water proof rating

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Feature

General DescriptionDisplay

- Size: 1.28inch Circle TFT
- Driver IC: GC9A01
- Interface Type: SPI (Serial Peripheral Interface)
- Operation Temperature: -20°C~ 70°C
- 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. & C.C.W / 100,000 cycles min.
- Operating Force: 1.5Kgf-cm (Max.)

Switch

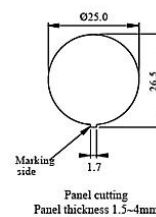
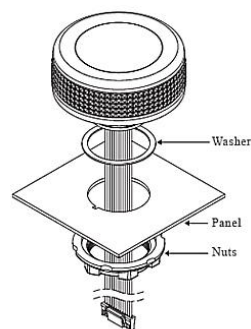
- Contact Rating: 50mA, 12V DC
- Resolution: 0.5±0.3mm
- Operating Life: 100,000 cycles min.
- Operating Force: 800gf±300gf

Materials

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

IP Code

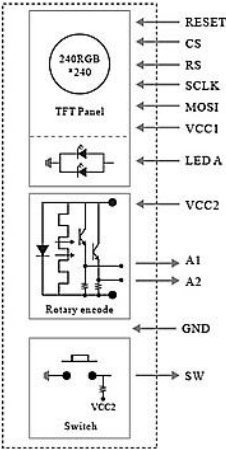
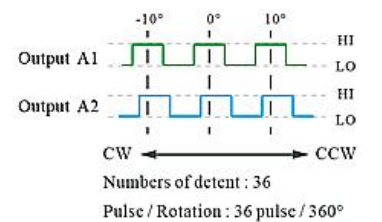
- IP Rating: IP65

Installation NotesBlock 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 / Switch COM.
12	VCC1	LCD Power

Rotation



The connector on the CR02 module is similar JST GHR-12V-S
Applicable Connector:
Conductor pitch / 1.25mm
Conductor width / 0.2mm

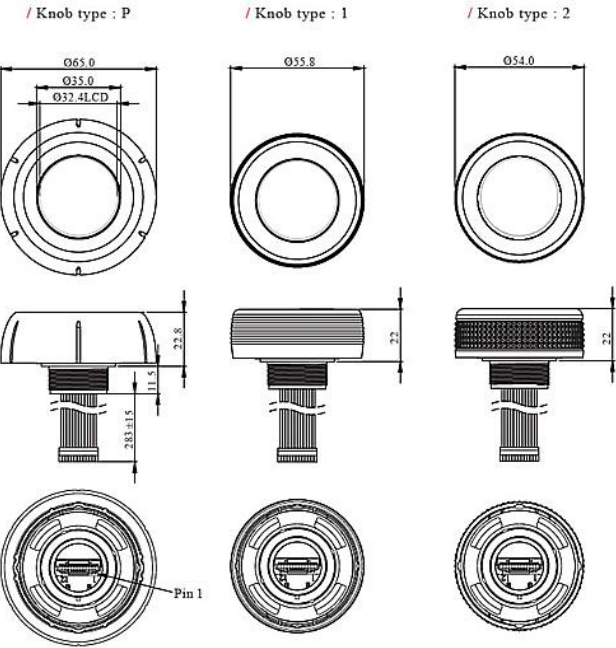
CR02 Video Demonstration

Specification

LCD Demo



Dimension



How to order



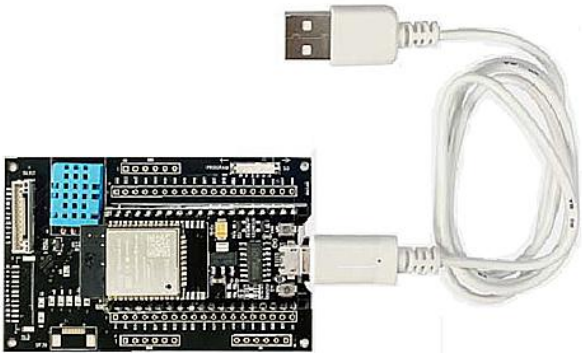
Item

Option

1. Development Kit P/N : C-CR02-01

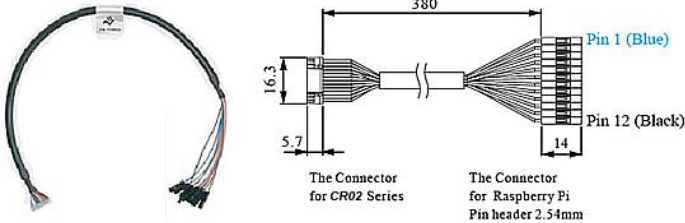
The SLB2 demo program develop by ESP32 system. ESP32 is an open-source electronic platform based on easy-to-use hardware and software. Use Arduion-ESP32 IDE, so user can very easy to use CR02 through CR02 development kit from ESP32.

Dimension(Without cable):85mm(W)*50mm(D)*18.5mm(H)



2. Cable P/N : C-CR02-03

The CR02 series connect to Raspberry Pi, though cable wire



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