

RJS-SDE-2

ROTARY ENCODER WITH LCD SWITCH



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

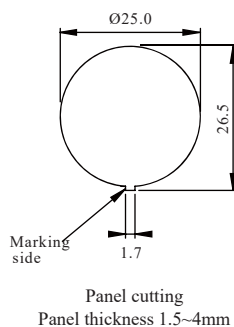
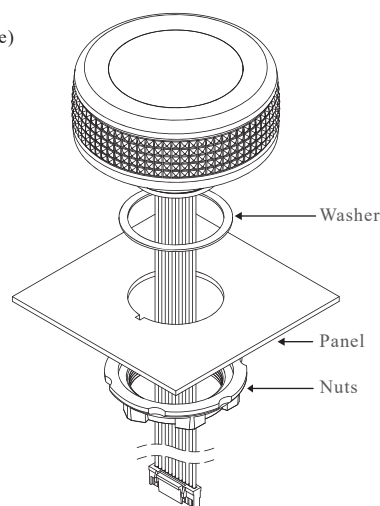
Encoder
Transmissive Optical Sensor
Power Supply : 5V
Output Signal : HIGH & LOW
Resolution : 36 step per revolution
Operating Life : C.W. 100,000 cycles min.
& C.C.W 100,000 cycles min.
Operating Force : 1.5Kgf-cm (Max.)

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

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

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

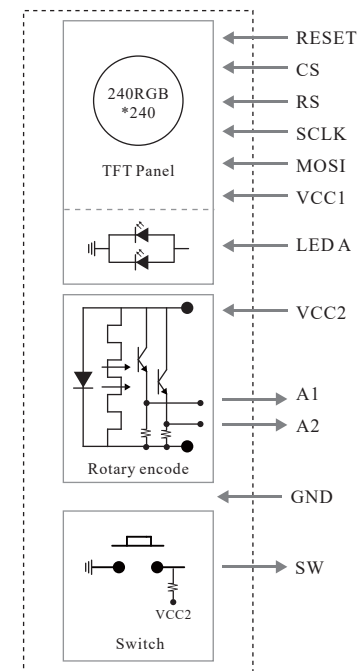
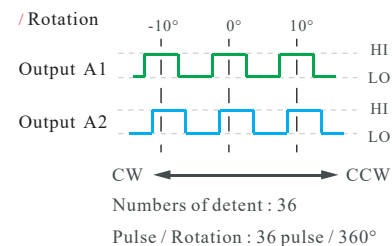
/ Installation Notes



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	LCD Power



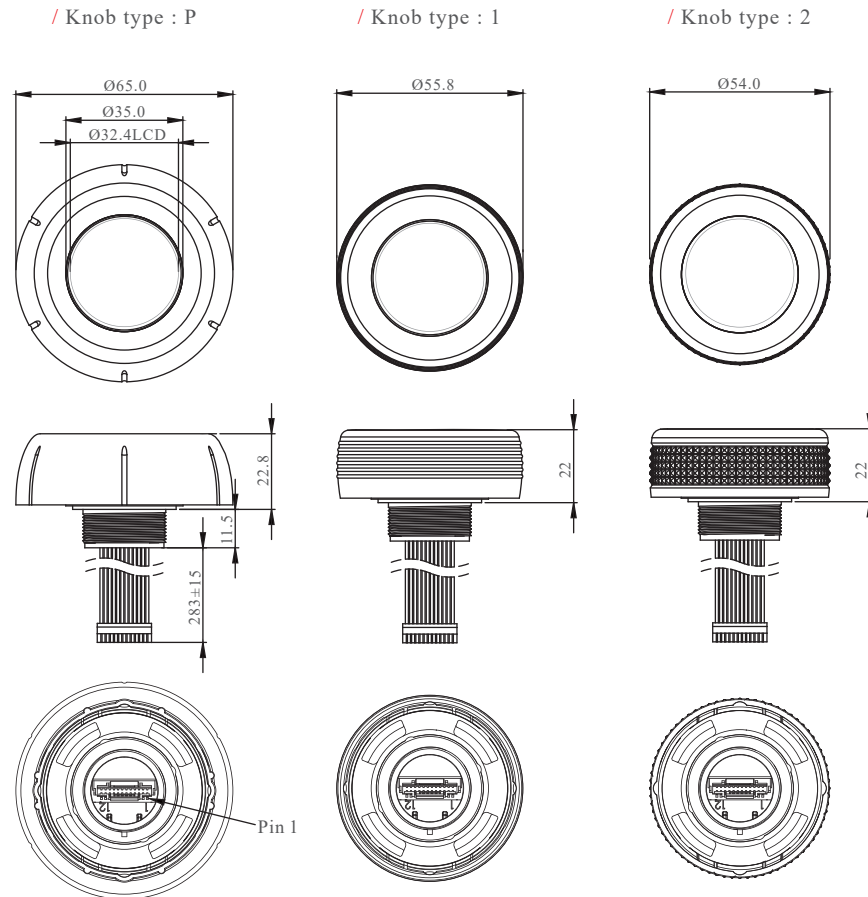
The connector on the SDE2 module is similar JST GHR-12V-S
Applicable Connector: Conductor pitch / 1.25mm Conductor width / 0.2mm

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Dimension



Option

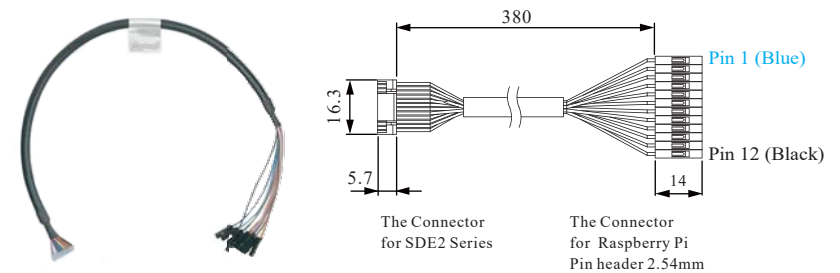
/ Development Kit P/N : K-SDE2-01

The SDE2 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 SDE2 through SDE2 development kit from ESP32.
Dimension(Without cable):85mm(W)*50mm(D)*18.5mm(H)



/ Cable P/N : K-SDE-03

The SDE2 series connect to Raspberry Pi. though cable wire



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How to order _____



SDE2-PL | Knob type P / Silver / Plastic



SDE2-10 | Knob type 1 / Silver / Aluminum



SDE2-2L | Knob type 2 / Silver / Plastic



SDE2-P5 | Knob type P / Black / Plastic



SDE2-15 | Knob type 1 / Black / Aluminum



SDE2-25 | Knob type 2 / Black / Plastic