



Shanpu

Rotary encoder with LED Switches SLD

General Description

Display LED
Color : White LED (L1~L30)
Rating : 3.3V~3.8V at 20mA/each LED

Rotary Encode : Transmissive Optical Sensor
Type of actuation : Rotary feedback
Power Supply : 5V
Output Signal : HI / LO
Revolution : 36 step per revolution
Operating Life : C.W. 100,000
& C.C.W 100,000 cycles min.
Operating Force : 1 kgf-cm (Max.)

Switch
Output Signal : HI / LO
Type of actuation : Tactile feedback
Total Travel : $0.3 \pm 0.15\text{mm}$
Operating Force : $800 \pm 300\text{gf}$
Operating Life : 100,000 Cycles

Insulation Resistance : 100M Ohm Min.
Dielectric strength : 250V AC/Min
Operation Temperature : $-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$
IP Code : IP65

Materials
Lens : Polycarbonate (PC)
Base : Polycarbonate (PC)
Washer : NBR
Nut : Polyamide(PA)
Knob : Polyamide(PA)/ Aluminum

The connector on the SLD module
is similar JST GHR-12V-S
Applicable Connector:
Conductor pitch / 1.25mm
Conductor width / $\square 0.2\text{mm}$



- Feature
- Panel cutting $\varnothing 25\text{mm}$
 - Front Panel IP65
 - Pushbutton Switches
 - White LED backlight
 - Rotary Encoder
 - Marking service

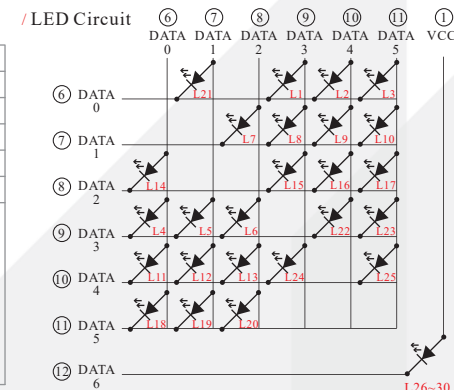
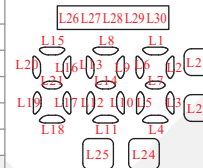
- Application
- Industrial equipment
 - Home Security
 - Public building
 - Medical equipment
 - Business building

PAT. M633184
PAT. ZL 202221775605.4

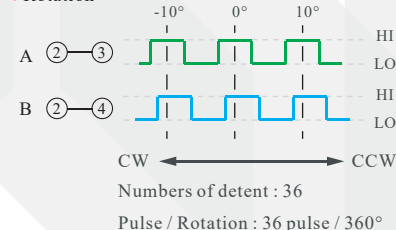
Pin Description & Contact Configuration

/ Pin function

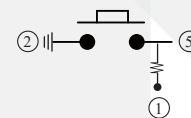
Pin	Name	Function
1	VCC	VCC for Rotary Encoder, 5V
2	GND	Switch COM. & Rotary Encoder COM.
3	A	Rotary Encoder A
4	B	Rotary Encoder B
5	SW	Switch N.O.
6	White LED	DATA 0
7	White LED	DATA 1
8	White LED	DATA 2
9	White LED	DATA 3
10	White LED	DATA 4
11	White LED	DATA 5
12	White LED	DATA 6



/ Rotation

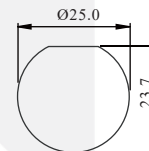


/ Switch

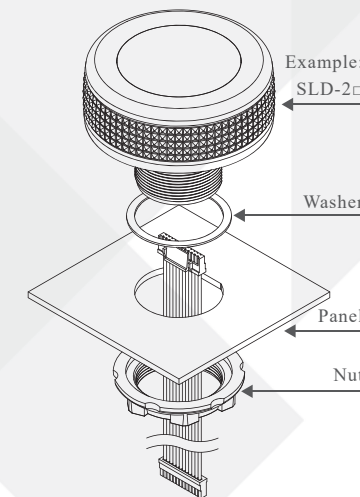


/ Panel cutting

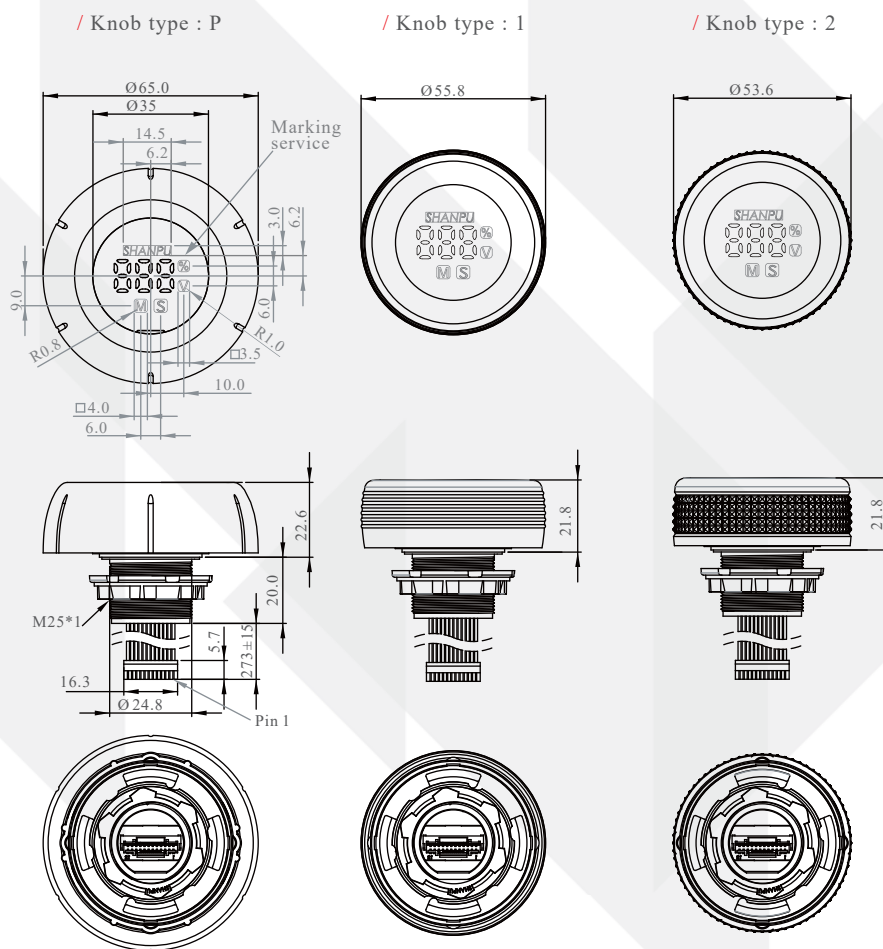
Panel thickness:
2.0~10 mm



/ Installation Notes



Dimension



- How to order



SLD-PL

Knob type P / Silver / Plastic



SLD-10

Knob type 1 / Silver / Aluminum



SLD-2L

Knob type 2 / Silver / Plastic



SLD-P5

Knob type P / Black / Plastic



SLD-15

Knob type 1 / Black / Aluminum



SLD-25

Knob type 2 / Black / Plastic



Option

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

The SLD 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 SLD through SLD development kit from ESP32.

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

