



Shan Pu

Multi-function encoder Switches Series SF42EA



Materials

Cap / Knob :PC
Housing :Aluminum
Nuts :Aluminum
Base :PC
SUS Washer :SUS
Washer :EVA

General Specifications

Switch circuit :SP5T+Rotary encoder(Common bus)
Switch contact rating :1mA @ 10V DC max
Vibration Resistance :10~55Hz, displacement 0.75mm(p-p)
Contact Resistance :Max. 300mΩ

(Measured by ohm meter-Open Voltage
<1 VDC, Driver current-100mA)

Insulation Resistance :Min. 100MΩ(100VDC/ minute)

Operating Force :5 way switch Max. 300gf

Encode Torque Max. 60gf·cm

Mechanical Life :Rotation - Min. 2,000,000 operations
(C.W. 1,000,000 & C.C.W 1,000,000 operations)

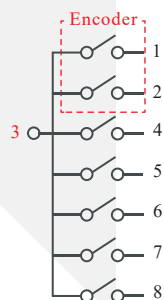
Push - Min. 1,000,000 operations

Operating Frequency :Rotation- Max. 30 operations per minute

Push - Max. 120 operations per minute

Operating Temperature :0 °C ~ +40 °C

Contact Configuration



Pin	Function
1	A-COM ON OFF
2	B-COM ON OFF
3	COM
4	SW1 N.O.
5	SW2 N.O.
6	SW3 N.O.
7	SW4 N.O.
8	SW5 N.O.

The Connector for SF42EA module
similar JST B8B-PH-SM4-TB

Applicable Connector:

Conductor pitch / 2.0mm

Conductor width / □0.5mm

Rotation

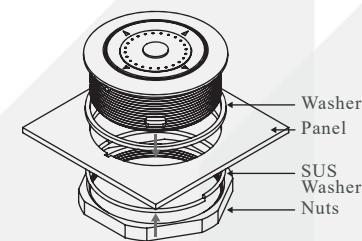
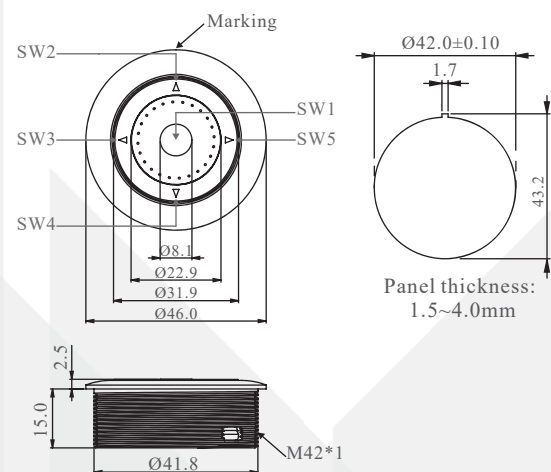
ANGLE NO.	-90°	-60°	-30°	0°	30°	60°	90°
(A) A-C ON OFF							
(B) B-C ON OFF							

CW ← → CCW

Numbers of detent : 24

Pulse / Rotation : 12 pulse / 360°

Dimension & Panel Cutting & Installation Notes



How to Order



SF42EA40

White Cap /
White Knob /
Silver Housing



SF42EA55

Black Cap /
Black Knob /
Black Housing

Option



Cable: YCW015

Cable:UL1007#26AWG

Conductor pitch : 2.0mm

Conductor width : □0.5mm