

## Navigation Switch Series

### SNA1-Z



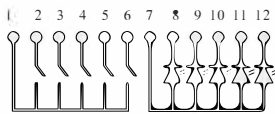
<b>General Specifications</b>	
Current Rating	:50mA
Voltage Rating	:12VDC
Dielectric Withstanding Voltage	:250VAC for 1 minute
Contact Resistance	:100m Ohm Max.(initial)
Insulation Resistance	:100M Ohm Min.
Operating Force	:230gf± 50gf(Tactile)/ 60gf± 40gf(Noiseless)
Total Travel(Tactile)	:0.4mm ± 0.2mm
Total Travel(Noiseless)	:1.0mm ± 0.3mm
Mechanical Life	:1,000,000 cycles Min.
Function	:Momentary(SP5T)
Operating Temperature	: -10 deg.~+60 deg.

#### Materials

Cap	:Polycarbonate (PC)
Base	:Polyamide (PA)
Reflector	:Polycarbonate (PC)
Switch Terminal	:Brass with gold plating
Housing	:Polyamide (PA)
Action Dome	:Phosphor Bronze with gold plating (Noiseless) Phosphor Bronze with silver plating(Tactile)

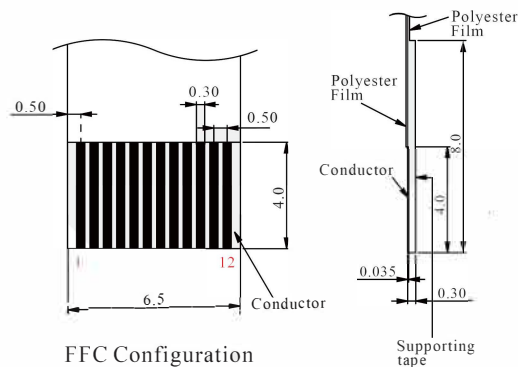


### Contact Configuration



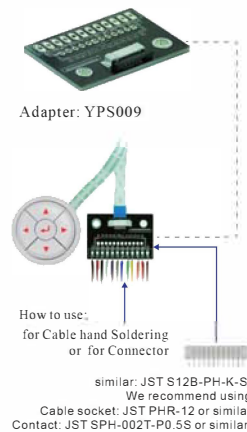
Pin	Function	Pin	Function
1	SW COM.	7	LED(+)
2	SW 1 N.O.	8	SW 1 LED(-)
3	SW 2 N.O.	9	SW 2 LED(-)
4	SW 3 N.O.	10	SW 3 LED(-)
5	SW 4 N.O.	11	SW 4 LED(-)
6	SW 5 N.O.	12	SW 5 LED(-)

The Connector for SNA1 module is YCN007 or similar JST 12FLZT-SM1-TF  
Applicable FFC: Conductor pitch / 0.5mm  
Conductor width / 0.3mm  
Mating part thickness / 0.30±0.05mm

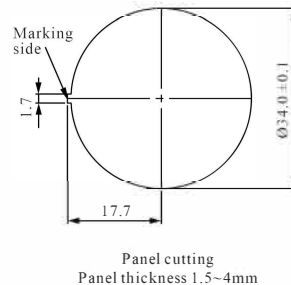
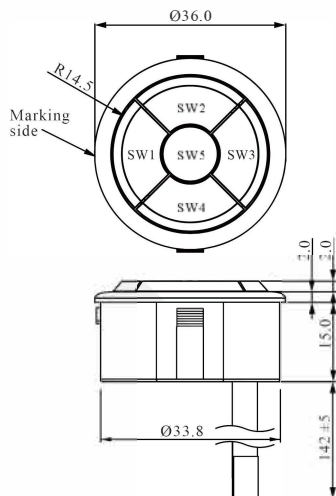


FFC Configuration

### Option



### Dimension



### How to order

Module		
Part No	SNA1AT7552-Z	SNA1AN3442-Z
Description	SNA1 Tactile, Blue LED with Black housing, Painted Black Cap, Laser Marking 2.	SNA1 Noiseless, Green LED with white housing, Painted White Cap, Laser Marking 2.

※ Color is subject to actual product.  
※ We provide Laser Marking service.

## Navigation Switch Series

### SNA3-Z



#### General Specifications

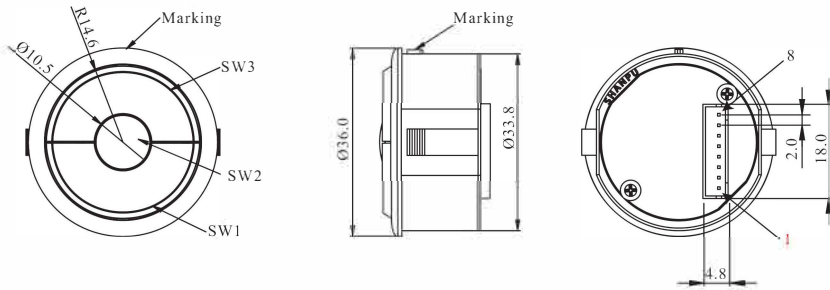
Current Rating	:50mA
Voltage Rating	:12VDC
Dielectric Withstanding Voltage	:250VAC for 1 minute
Contact Resistance	:100m Ohm Max.(initial)
Insulation Resistance	:100M Ohm Min.
Operating Force	: 400gf (Max.)
Total Travel	:0.2mm ± 0.1mm
Mechanical Life	:1,000,000 cycles Min.
Solder Specifications	:260 deg. for 3 seconds
Function	:SP3T
Operating Temperature	:-10 deg.~+60 deg.

#### Materials

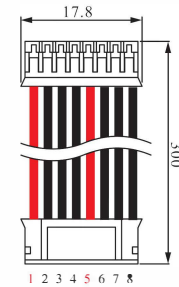
Cap	:Polycarbonate (PC)
Base	:Polyamide (PA)
Reflector	:Polyoxymethylene (POM)
Switch Terminal	:Brass with gold plating
Action Dome	: Phosphor Bronze with silver plating
Sealing rubber	:Silicone



### Dimension

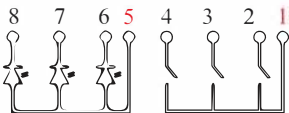


### Option



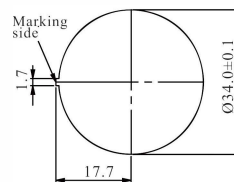
Cable: YCW011

### Contact Configuration & Panel cutting



The Connector for SNA3 module similar JST B8B-PH-K-A  
Applicable Connector:  
Conductor pitch / 2.0mm  
Conductor width / 0.5mm

Pin	Function
1	SW COM.
2	SW 1 N.O.
3	SW 2 N.O.
4	SW 3 N.O.
5	LED+
6	LED1-
7	LED2-
8	LED3-



Panel cutting  
Panel thickness 1.5~4mm

### How to order

Module		
Part No	SNA3S2552-Z	SNA3S1441-Z
Description	SNA3S Yellow LED, Black housing, Black Cap Marking 2.	SNA3S Red LED, White housing, White Cap Marking 1.

※ Color is subject to actual product.  
※ We provide Laser Marking service.

## Navigation Switch Series

### SNA4-Z



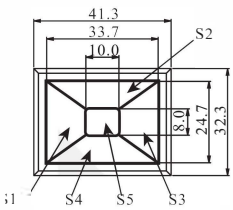
General Specifications	
Current Rating	:50mA
Voltage Rating	:12VDC
Dielectric Withstanding Voltage	:250VAC for 1 minute
Contact Resistance	:100m Ohm Max.(initial)
Insulation Resistance	:100M Ohm Min.
Operating Force	:200gf ± 50gf
Total Travel	:0.25mm ± 0.1mm
Mechanical Life	:100,000 cycles Min.
Solder Specifications	:260 deg. for 3 seconds
Function	:SP5T
Operating Temperature	:-10 deg.~+60 deg.

Materials	
Cap	:Polycarbonate (PC)
Housing	:Polyamide (PA)
Stem	:Polyamide (PA)
Base	:Polyamide (PA)
Terminal	:Brass with gold plating
Action Dome	:SUS with Silver plating
Connector	:PA, Brass with Tin plating

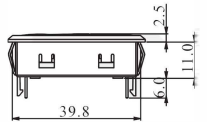


### Dimension

SNA4S

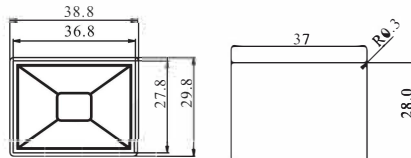


Panel cutting  
Panel thickness 1.5-4 mm

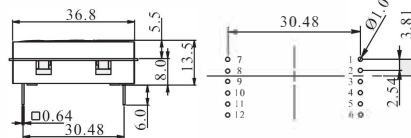


The Connector for SNA4 module  
similar JST RE-H(06)2TD  
Applicable Connector:  
Conductor pitch / 2.54mm  
Conductor width/φ0.64mm

SNA4P

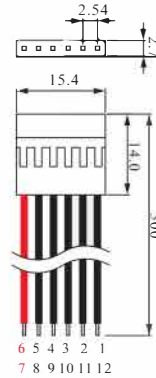


Panel cutting  
Panel thickness 1.5-4 mm



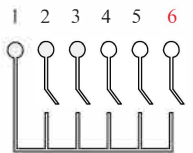
PCB Layout

### Option



Cable: YCW012

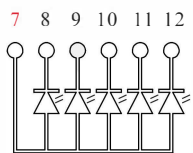
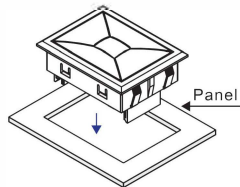
### Contact Configuration & Installation Notes



SW Configuration

Pin	Function
1	SW COM
2	SW 1 N.O.
3	SW 2 N.O.
4	SW 3 N.O.
5	SW 4 N.O.
6	SW 5 N.O.

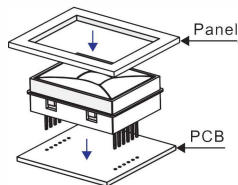
for SNA4S



LED Configuration

Pin	Function
7	LED+
8	SW 1 LED(-)
9	SW 2 LED(-)
10	SW 3 LED(-)
11	SW 4 LED(-)
12	SW 5 LED(-)

for SNA4P



### How to order

Module		
Part No	SNA4P1441-Z	SNA4S2551-Z
Description	Red LED, White housing, White cap, Marking 1.	Yellow LED, Black housing, Black cap, Marking 1.

※ Color is subject to actual product.

※ We provide Laser Marking service.