

Typical Applications

- **Remote controls**
- **Desk phones**
- **Keyboards**
- **Printers**
- **Entertainment systems**
- **White goods**



Environmental

OPERATING TEMPERATURE: 0°C / 40°C
STORAGE TEMPERATURE: -40°C / 70°C
VIBRATION RESISTANCE: 10 ~ 55 Hz, displacement 0.75mm (p-p)
SHOCK RESISTANCE: Destruction 1,000 m/s² (approx. 100G) max.
WAVE SOLDERING: Max. 260°C for 5 seconds
HAND SOLDERING: Max. 260°C for 5 seconds

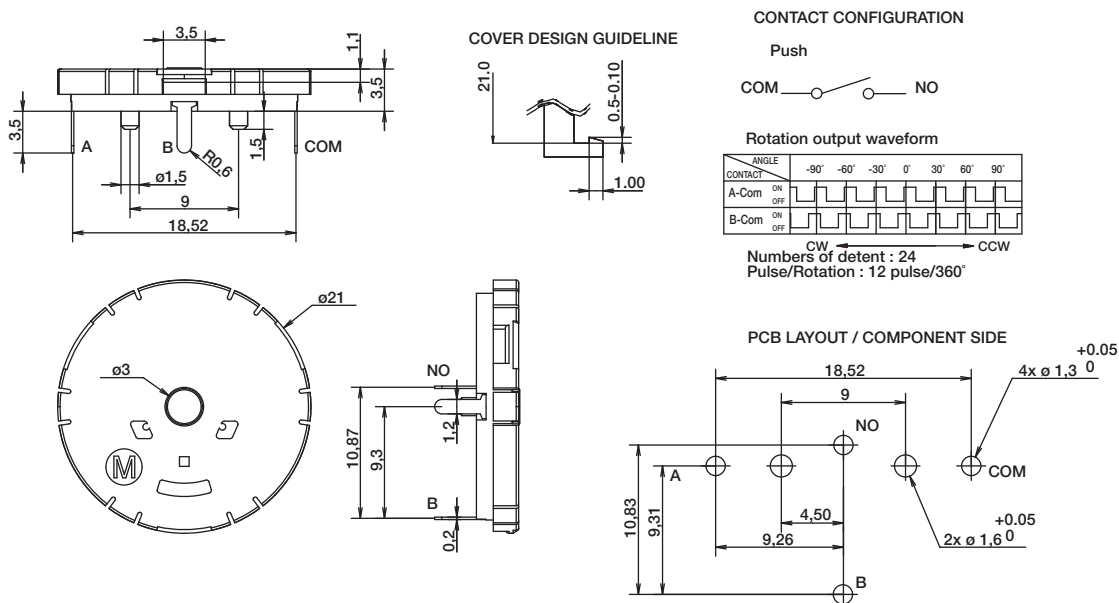
C

Navigation

Navigation

Navigation

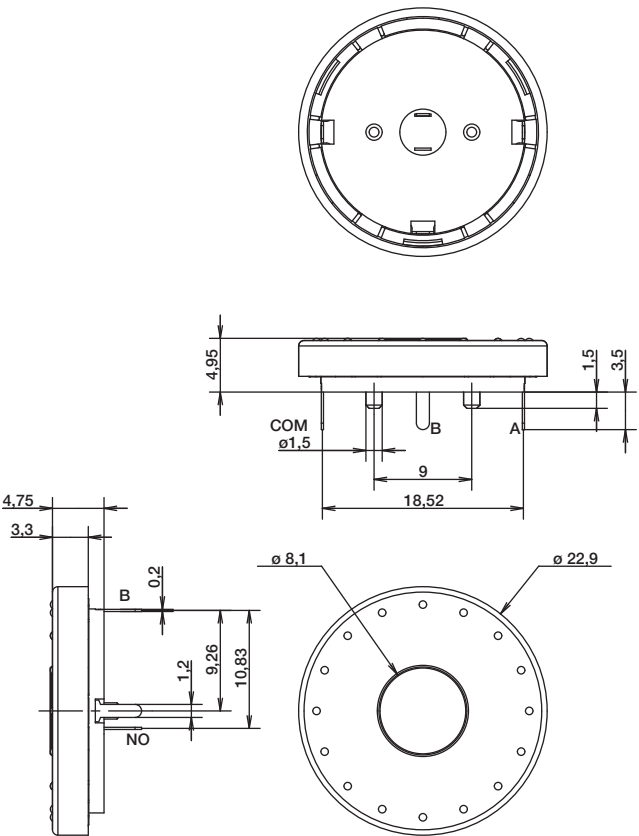
Base switch with jog and select, no decoration



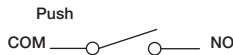
TSW Series

3 or 7 Function Tact and Scroll Wheel

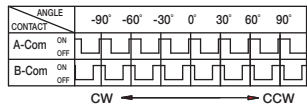
TSWA-3N-CB11 LFS Base switch with jog and select, white central button, white dial



CONTACT CONFIGURATION



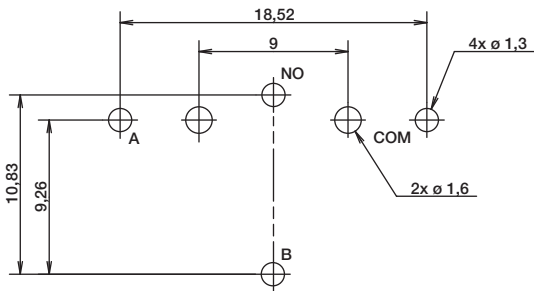
Rotation output waveform



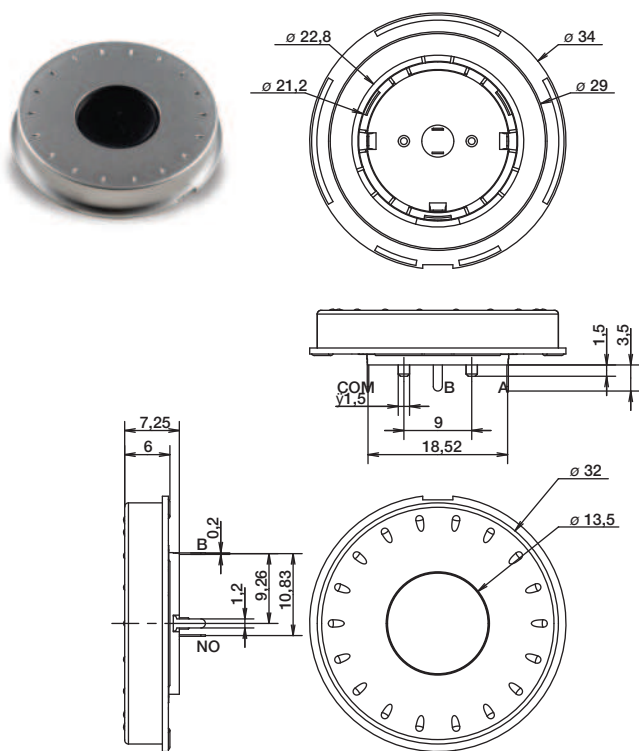
Numbers of detent : 24

Pulse/Rotation : 12 pulse/360°

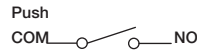
PCB LAYOUT / COMPONENT SIDE



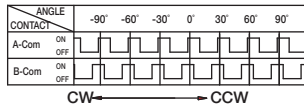
TSWA-3N-CD23 LFS Base switch with jog and select, black central button, grey dial



CONTACT CONFIGURATION



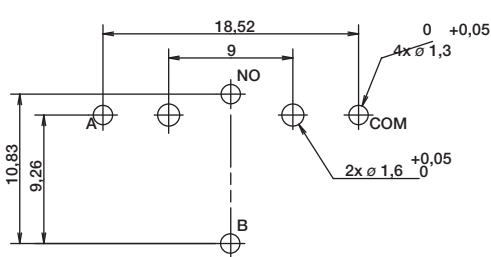
Rotation output waveform



Numbers of detent : 24

Pulse/Rotation : 12 pulse/360°

PCB LAYOUT / COMPONENT SIDE

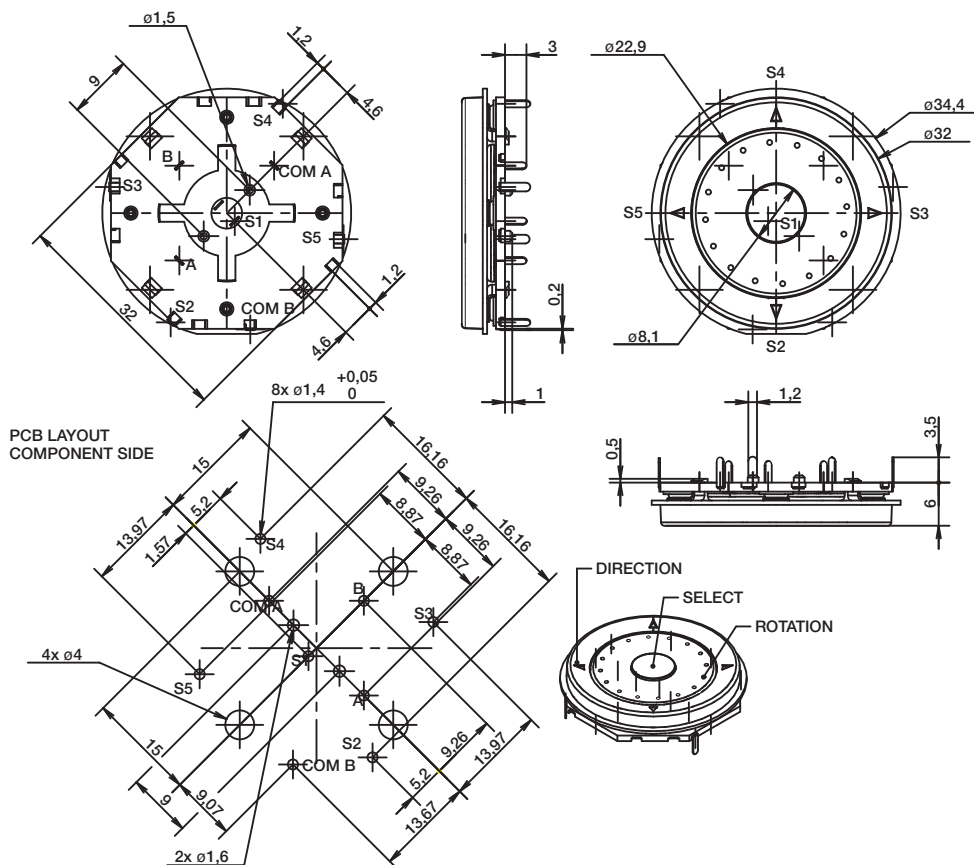


Dimensions are shown: mm

Specifications and dimensions subject to change



TSWB-3N-CB111 LFS
TSWB-3N-CB222 LFS



COM .A

S1

A

B

COM .B

S2

S3

S4

S5

CONTACT \ ANGLE		-90°	-60°	-30°	0°	30°	60°	90°
		A-COM A	ON	OFF	ON	OFF	ON	OFF
B-COM A	ON	OFF	ON	OFF	ON	OFF	ON	OFF

CW CCW

Numbers of detent : 24
Pulse/Rotation : 12 pulse/360°



C

Navigation



First Angle
Projection

Dimensions are shown: mm
Specifications and dimensions subject to change