

ESE23 Detector Switches

Type: **ESE23**



Bidirectional operation, midpoint auto-return Type

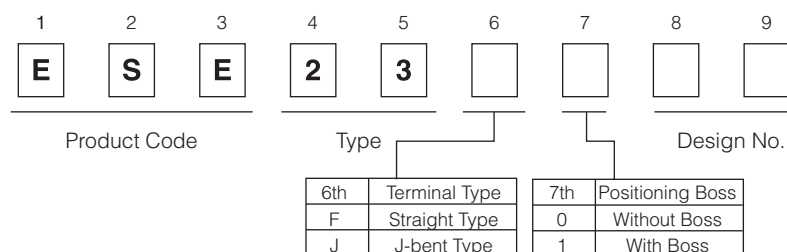
■ Features

- External dimensions : 4.1 mm×5.0 mm, Height 1.5 mm
- Long over-travel (through-operation available)
- Usable as an operation switch (an input device)

■ Recommended Applications

- Detection of media in portable electronic equipment (CD-ROM, DVD, Digital still cameras, etc.)
- Operating switches for other electronic equipment.

■ Explanation of Part Numbers



■ Specifications

Rating	50 μ A 3 V DC to 10 mA 5 V DC (Resistive load)	
Contact Resistance	500 m Ω max. (Initial)	
Insulation Resistance	100 M Ω min. (at 100 V DC for 1 minute)	
Dielectric Withstanding Voltage	100 V AC (50 Hz or 60 Hz) for 1 minute	
Operating Force	300 mN max.	
Mounting Height	1.5 mm	
Poles and Throws	1-pole 2-throws (OFF at midpoint)	
Full Travel (Pushing distance)	With Boss 1.0 mm (1.5 mm) Without Boss 2.2 mm (1.5 mm)	
Operating Life	50,000 cycles min.	
Temperature Range	-10 °C to +60 °C (Standard), -40 °C to +85 °C (Automotive)	
Heat Resistance	+70 °C for 96 hours	
Low Temperature Resistance	-25 °C for 96 hours	
Humidity Resistance	+40 °C 90 % to 95 % RH for 96 hours	
Minimum Quantity/Packing Unit	4,000 pcs. Embossed Taping (Reel Pack)	
Quantity/Carton	24,000 pcs.	

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

No. 1	ESE23J101 J-bent terminal with boss (Without Boss ESE23J001)	No. 2	ESE23F101 Straight terminal with boss (Without Boss ESE23F001)
1-pole 2-throws	Full position On position Pivot center PWB mounting hole for reference (Pitch tolerance : ± 0.05)	Full position On position Pivot center PWB mounting hole for reference (Pitch tolerance : ± 0.05)	

1-pole 2-throws (N . O)

The diagram illustrates a 1-pole 2-throw switch mechanism. At the top, a triangular switch mechanism is shown with a central pivot point 'F' and two throw points 'a' and 'b'. Below this, a dashed box represents the switch body. Inside, a horizontal bar is connected to a central pivot point. This pivot point is connected to two output terminals, '1' and '2', via two separate switch contacts. The input terminal 'C' is connected to the central pivot point. The output terminals '1' and '2' are connected to the two switch contacts. The switch mechanism is labeled 'Common terminal' on both sides.

Terminal No. Lever position	1	c	2
F		○	
a	○	○	
b		○	○

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