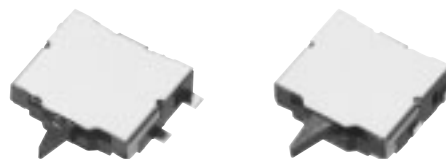


1HW Detector Switches

Type: **ESE23**



Bidirectional operation, midpoint auto-return Type

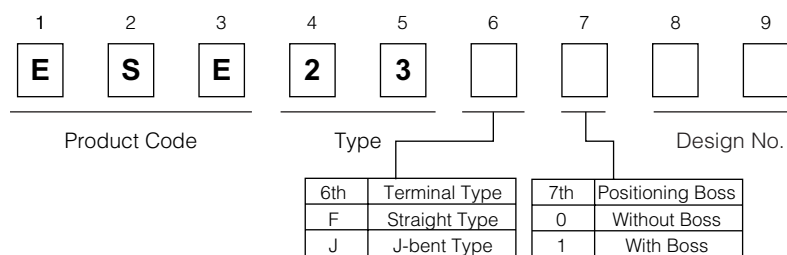
■ Features

- 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 Vdc to 10 mA 5 Vdc (Resistive load)	
Contact Resistance	500 m Ω max. (Initial)	
Insulation Resistance	100 M Ω min. (100 Vdc)	
Dielectric Withstanding Voltage	100 Vac 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	50000 cycles min.	
Temperature Range	-10 °C to +60 °C	
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	4000 pcs. Embossed Taping (Reel Pack)	
Quantity/Carton	24000 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.

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No. 1	ESE23J101 J-bent terminal with boss (Without Boss available)
1-pole 2-throws PWB mounting hole for reference (Pitch tolerance : ±0.05)	1-pole 2-throws PWB mounting hole for reference (Pitch tolerance : ±0.05)
No. 2	ESE23F101 Straight terminal with boss (Without Boss available)

1-pole 2-throws (N . O)

The diagram illustrates a 1-pole 2-throw switch mechanism. At the top, a triangular switch body is shown with two output terminals, 'a' and 'b', each with an arrow pointing away from the switch. Below this, a dashed rectangle represents the switch's internal structure. A horizontal line with a central pivot point is shown. Two vertical lines extend from the pivot point to the terminals 'a' and 'b'. The switch is shown in two positions: one where the pivot is connected to terminal 'a' (labeled 'Common terminal' on the left) and another where it is connected to terminal 'b' (labeled 'Common terminal' on the right). The switch is controlled by a lever with two positions, '1' and '2', indicated by dashed lines and arrows. The lever is connected to the pivot point. To the right of the diagram is a truth table for the switch's operation.

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

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