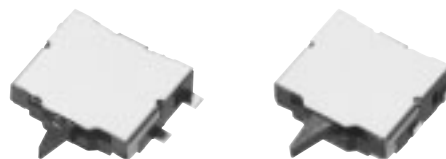


1HW Detector Switches

Type: **ESE23**



Bidirectional operation, midpoint auto-return Type

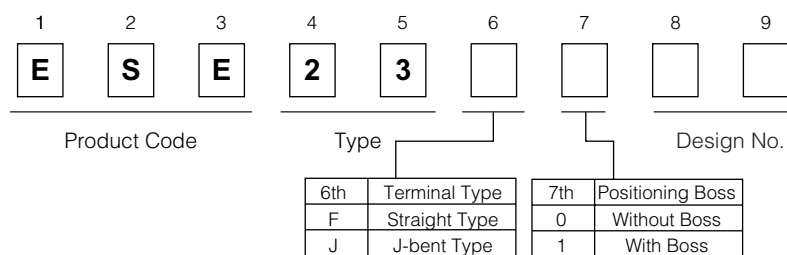
■ Features

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

1-pole 2-throws (N . O)

The diagram illustrates a 1-pole 2-throw switch mechanism. At the top, a common terminal 'F' is connected to two throw terminals 'a' and 'b'. Below this, a dashed box represents the switch body. Inside, a horizontal bar is connected to terminal 'C' on both sides. A vertical line from the center of this bar leads to a pivot point. From the pivot, two dashed lines lead to terminals '1' and '2'. To the right of the diagram is a truth table:

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

Taping Reel

Technical drawing of the Taping Reel showing a circular reel with an outer diameter of $\phi 380.0 \pm 2.0$ mm. The reel has a central hub with three mounting holes. The drawing also shows a side view of the reel with a thickness of 16.4 mm.

Embossed Carrier Taping

Technical drawing of the Embossed Carrier Taping showing a cross-section of the carrier tape. The drawing includes dimensions for the non-packed portion (160 mm min.), the packed portion (100 mm min.), and the non-packed portion (13 blanks min.). The drawing also shows the drawing direction, the leading portion (400 mm min.), and the cover tape. The drawing includes dimensions for the carrier tape, pilot holes, and the embossed carrier tape.

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