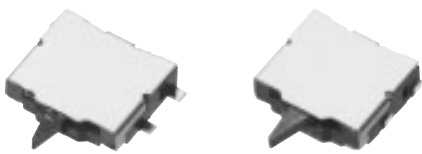


1HW Detector Switches

Type: **ESE23**



Bidirectional operation, midpoint auto-return Type

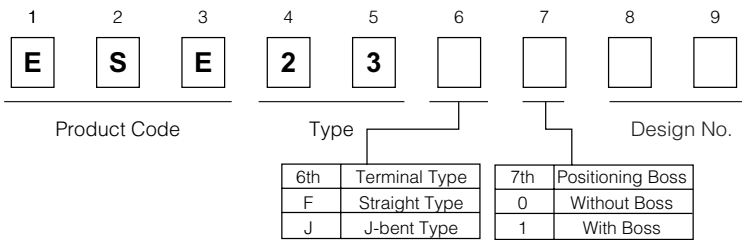
■ Features

- 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 μA 3 Vdc to 10 mA 5 Vdc (Resistive load)	
Contact Resistance	500 mΩ max. (Initial)	
Insulation Resistance	100 MΩ 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.

<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 triangular lever is shown with two positions: 'F' (Forward) and 'a' (Aft). The lever is connected to a common terminal (C) and two throw terminals (1 and 2). The lever is shown in two positions: 'F' (Forward) and 'a' (Aft). The lever is connected to a common terminal (C) and two throw terminals (1 and 2). The lever is shown in two positions: 'F' (Forward) and 'a' (Aft). The lever is connected to a common terminal (C) and two throw terminals (1 and 2).

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

**Taping Reel**

Top view:  $\phi 380.0 \pm 2.0$

Side view: 16.4

**Embossed Carrier Taping**

Dimensions and labels for the embossed carrier taping:

- END
- Carrier tape
- $P = 8.0 \pm 0.1$
- $4.0 \pm 0.1$
- $2.0 \pm 0.1$
- Pilot holes
- Drawing direction
- TOP
- Leading portion 400 mm min.
- 13.5
- Non-packed portion (160 mm min.)
- Packed portion
- Non-packed portion (100 mm min.) (13 blanks min.)
- Cover tape

00 Sep. 2010