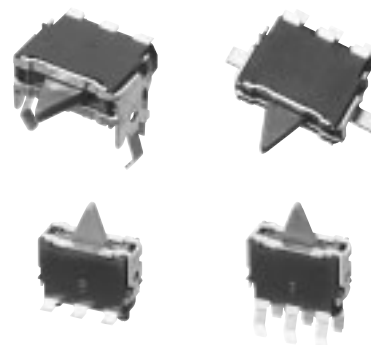


2W Detector Switches

Type: **ESE24**

Bidirectional operation, auto-return to midpoint type.



■ Features

- A lever-type detector switch with high reliability using sliding mechanical contacts
- Long over-travel (through-operation available)
- Used 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 Number

1	2	3	4	5	6	7	8	9
E	S	E	2	4				
Product Code			Type		Style		Design No.	

6th & 7th	Mounting Method & Style
SV	Vertical type for wave soldering
SH	Horizontal type for wave soldering
MV	Vertical type for reflow soldering
MH	Horizontal type for reflow soldering

■ 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		350 mN max.
Mounting Height		<ul style="list-style-type: none"> · Type SV 5.6 mm · Type SH 4.65 mm · Type MV 5.6 mm · Type MH 3.0 mm
Poles and Throws		1-pole 2-throws (OFF at midpoint)
Full Travel (Pushing distance)		<ul style="list-style-type: none"> · Type SV 6.1 mm (2.45 mm) · Type SH 2.6 mm (2.45 mm) · Type MV 6.1 mm (2.45 mm) · Type MH 1.4 mm (2.45 mm)
Operating Life		50000 cycles min.
Temperature Range		-10 °C to +70 °C
Heat Resistance		+80 °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	ESE24MH, MV, SV, SH	200 pcs. Polyethylene Bag (Bulk) *1
	ESE24MH□T	1000 pcs. Embossed Taping (Reel Pack) *2
	ESE24MV□T	500 pcs. Embossed Taping (Reel Pack)
Quantity/Carton	ESE24MH, MV, SV, SH	10000 pcs. Polyethylene Bag (Bulk)
	ESE24MH□T	6000 pcs. Embossed Taping (Reel Pack)
	ESE24MV□T	3000 pcs. Embossed Taping (Reel Pack)

*1 ESE24SH type: 160 pcs. (Polyethylene Bag), 8000 pcs. (Reel Pack)

*2 ESE24SV, ESE24SH are excluded

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.

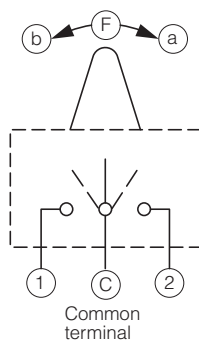
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<p>No. 1 ESE24SV3 Vertical type for wave soldering 1-pole 2-throws</p> <p>7.05 to 7.55 (Pushing position) 4.45 (Rotative center)</p> <p>PWB mounting hole for reference (Pitch tolerance: ± 0.05) (PWB thickness=0.8)</p> <p>6-$\phi 1.10^{+0.05}_0$</p> <p>7.5 4.3 2.7 29°24' 68°26' 5.6 0.2 6.1 (Full position) 8.05 (ON starting position) 8.55 1.0 2.5 2.5 3.0 1.0 0.3 2.9 3.8 1.4 2.7</p>	<p>No. 2 ESE24SH1 Horizontal type for wave soldering 1-pole 2-throws</p> <p>8.4 7.25 2.5 2.5 1.6 2.55 2.75 2.50 2.50 7.16 2-$\phi 1.20^{+0.05}_0$ 3-$\phi 1.10^{+0.05}_0$</p> <p>PWB mounting hole for reference (Pitch tolerance: ± 0.05) (PWB thickness=0.8)</p> <p>3.55 to 4.05 (Pushing position) 0.95 (Rotative center)</p> <p>7.5 4.3 2.7 29°24' 68°26' 0.2 2.1 5.05 3.5 4.65 3.65 1.0 3.0 1.65 3.0</p>
<p>No. 3 ESE24MV1 Vertical type for reflow soldering 1-pole 2-throws ESE24MV1T (Embossed Taping)</p> <p>7.05 to 7.55 (Pushing position) 4.45 (Rotative center)</p> <p>PWB mounting hole for reference (Tolerance: ± 0.05)</p> <p>2-$\phi 1.10^{+0.05}_0$</p> <p>5.50 3.60 5.80 6-1.40 2.50 2.50 7.5 4.3 2.7 29°24' 68°26' 5.6 6.1 (Full position) 8.05 (ON starting position) 8.55 1.0 2.5 2.5 3.0 1.0 4.0 5.4</p>	<p>No. 4 ESE24MH1 Horizontal type for reflow soldering 1-pole 2-throws ESE24MH1T (Embossed Taping)</p> <p>0.25 7.25 0.25 2.00 7.50 2.00 1.60 4.50 2.20 2.50 2.50 3-1.40 2-$\phi 0.70$ (Hole) positioning boss</p> <p>PWB mounting hole for reference (Tolerance: ± 0.05)</p> <p>2.35 to 2.85 (Pushing position) 0.25 (Rotative center)</p> <p>1.5 7.5 1.5 4.3 2.7 29°24' 68°26' 0.2 0.9 1.2 1.6 3.85 4.7 1.5 1.4 (Full position) 3.35 (ON starting position) 3.0 0.5 1.0 0.6 0.1 C0.2 Positioning boss</p>

00 Oct. 2012

Circuit Diagram

1-pole 2-throws (N . O)

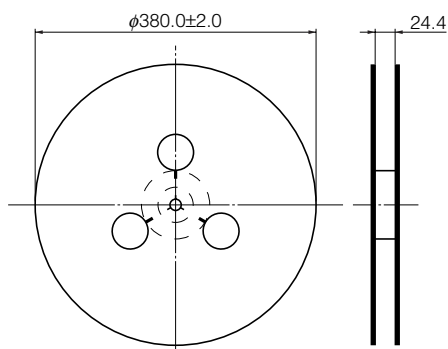


Terminal No. Lever position	①	②
F		
a		
b		

Packaging Specifications

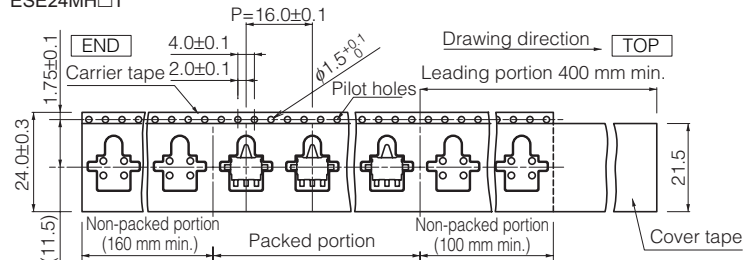
Standard Reel Dimensions in mm (not to scale)

Taping Reel



Embossed Carrier Taping

ESE24MH□T



ESE24MV□T

