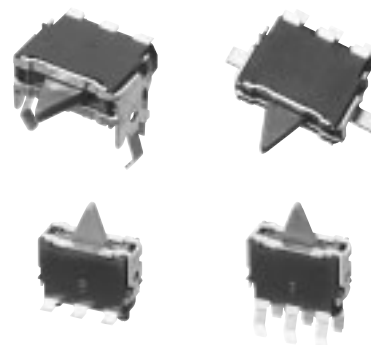


2W Detector Switches

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		· 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)		· 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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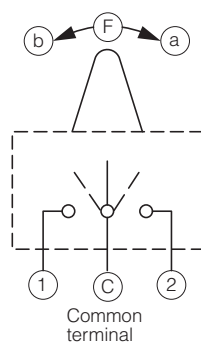
■ Dimensions in mm (not to scale)

No. 1 ESE24SV3 Vertical type for wave soldering 1-pole 2-throws Top view dimensions: 7.5, 4.3, 2.7, 2.5, 2.5, 2.90, 6-$\phi 1.10^{+0.05}_0$. Side view dimensions: 7.05 to 7.55 (Pushing position), 4.45 (Rotative center), 29°/24°, 68°/26°, 5.6, 0.2, 8.05 (ON starting position), 6.1 (Full position), 8.55, 1.0, 2.5, 2.5. Front view dimensions: 3.0, 1.0, 2.9, 3.8, 0.3, 1.4, 2.7. PWB mounting hole for reference (Pitch tolerance: ± 0.05) (PWB thickness=0.8)	No. 2 ESE24SH1 Horizontal type for wave soldering 1-pole 2-throws Top view dimensions: 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-$\phi 1.10^{+0.05}_0$. Side view dimensions: 3.55 to 4.05 (Pushing position), 0.95 (Rotative center), 7.5, 4.3, 2.7, 29°/24°, 68°/26°, 2.6 (Full position), 4.55 (ON starting position), 5.05, 3.5, 2.1, 0.2. Front view dimensions: 4.65, 3.65, 1.0, 3.0, 1.65, 1.0, 3.0. PWB mounting hole for reference (Pitch tolerance: ± 0.05) (PWB thickness=0.8)
No. 3 ESE24MV1 Vertical type for reflow soldering 1-pole 2-throws ESE24MV1T (Embossed Taping) Top view dimensions: 5.50, 3.60, 5.80, 2.50, 2.50, 6-1.40, 2-$\phi 1.10^{+0.05}_0$. Side view dimensions: 7.05 to 7.55 (Pushing position), 4.45 (Rotative center), 29°/24°, 68°/26°, 5.6, 0.2, 8.05 (ON starting position), 6.1 (Full position), 8.55, 1.0, 2.5, 2.5. Front view dimensions: 3.0, 1.0, 4.0, 5.4, $\phi 1.0$. PWB mounting hole for reference (Tolerance: ± 0.05)	No. 4 ESE24MH1 Horizontal type for reflow soldering 1-pole 2-throws ESE24MH1T (Embossed Taping) Top view dimensions: 0.25, 7.25, 0.25, 2.00, 7.50, 2.00, 1.60, 7.25, 2-$\phi 0.70$ (hole), 1.60, 4.50, 2.20, 2.50, 2.50, 3-1.40. Side view dimensions: 0.25 (Rotative center), 2.35 to 2.85 (Pushing position), 1.5, 7.5, 1.5, 4.3, 2.7, 29°/24°, 68°/26°, 0.2, 0.9, 1.6, 3.85, 1.4 (Full position), 3.35 (ON starting position), 4.7, 1.5, 1.0, 2.5, 2.5. Front view dimensions: 3.0, 0.5, 2.0, 1.0, 0.6, 0.2, 0.1, C0.2. PWB mounting hole for reference (Tolerance: ± 0.05) Positioning boss

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Circuit Diagram

1-pole 2-throws (N . O)

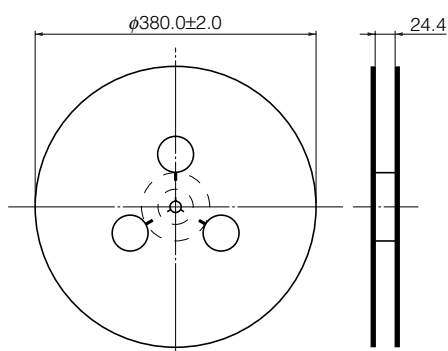


Terminal No. Lever position	①	③	②
①			
③			
②			

Packaging Specifications

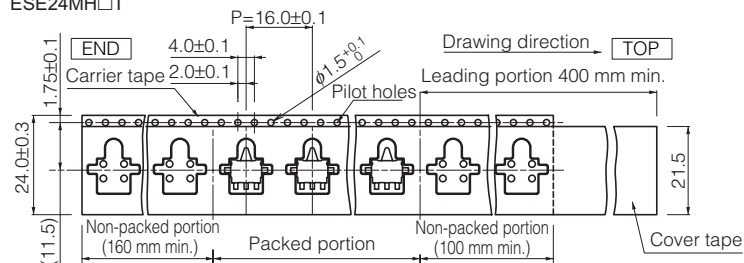
Standard Reel Dimensions in mm (not to scale)

Taping Reel



Embossed Carrier Taping

ESE24MH□T



ESE24MV□T

