

1VL Detector Switches

Type: **ESE13**



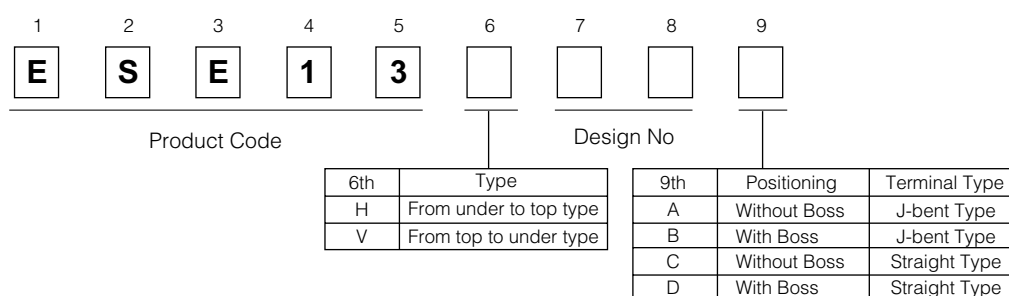
■ Features

- Thin type : Height=1.2 mm
- Highly reliable contact
- SMD type (Embossed taping, Reflow soldering)

■ Recommended Applications

- Detection of media in portable electronic equipment
(Mobile phones / Digital still cameras / Camcorders)

■ 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		1.2 mm
Poles and Throws		1-pole 1-throw
Full Travel (Pushing distance)		Type V : 2.15 mm (2.15 mm) Type H : 3.05 mm (2.15 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	ESE13H	5000 pcs. Embossed Taping (Reel Pack)
	ESE13V	3000 pcs. Embossed Taping (Reel Pack)
Quantity/Carton	ESE13H	30000 pcs.
	ESE13V	18000 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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■ Dimensions in mm (not to scale)

No. 1 ESE13V J-bent terminals 1-pole 1-throw With boss ESE13V01B Without boss ESE13V01A	Common terminal C A Separate terminal D B Release position — 1.14 ± 0.3 ON start position — 1.55 ± 0.35 ON angular dimension (15°) Action direction (60°) Pivot center (0.58) 3.05±0.3 2.65±0.3 1.2±0.2 0.5 0.5 2±0.05 3.0 0.55 0.6 0.9 0.2 max.	Common terminal C A Separate terminal D B PWB mounting hole for reference (Pitch tolerance: ± 0.05) 0.7 2.0 1.0 0.7 2.2 4.3 3.0 0.55 0.65 0.5 0.45 0.6 $\phi 0.6 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$
No. 2 ESE13V Straight terminals 1-pole 1-throw With boss ESE13V01D Without boss ESE13V01C	Common terminal C A Separate terminal D B Release position — 1.14 ± 0.3 ON start position — 1.55 ± 0.35 ON angular dimension (15°) Action direction (60°) Pivot center (0.58) 3.05±0.3 2.65±0.3 1.2±0.2 0.5 0.5 2±0.05 3.0 0.55 0.6 0.9 0.2 max.	Common terminal C A Separate terminal D B PWB mounting hole for reference (Pitch tolerance: ± 0.05) 0.7 2.0 1.0 0.7 2.2 4.3 3.0 0.55 0.65 0.5 0.45 0.6 $\phi 0.6 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$
No. 3 ESE13H J-bent terminals 1-pole 1-throw With boss ESE13H01B Without boss ESE13H01A	Common terminal C A Separate terminal D B Full travel — 0.77 ± 0.3 ON start position — 2.14 ± 0.35 ON angular dimension (15°) Action direction (60°) Pivot center (0.38) 3.05±0.3 1.6±0.3 1.2±0.2 0.5 0.5 2±0.05 3.0 0.55 0.6 0.65 0.2 max.	Common terminal C A Separate terminal D B PWB mounting hole for reference (Pitch tolerance: ± 0.05) 0.7 2.0 1.0 0.7 2.2 4.3 3.0 0.55 0.65 0.5 0.45 0.6 $\phi 0.6 \begin{smallmatrix} 0 \\ -0.1 \end{smallmatrix}$

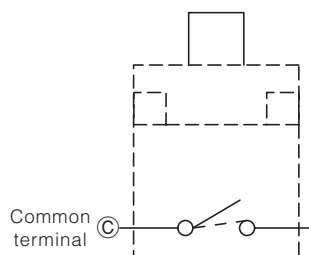
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■ Circuit Diagram

1-pole 1-throw (N.O)

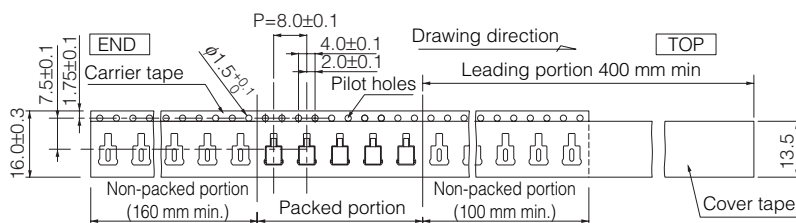
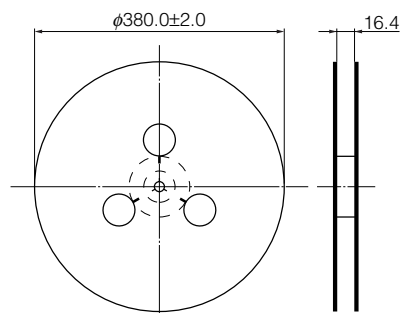


■ Packaging Specifications

Standard Reel Dimensions in mm (not to scale)

Taping Reel

Embossed Carrier Taping



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