

1VL Detector Switches

Type: **ESE13**



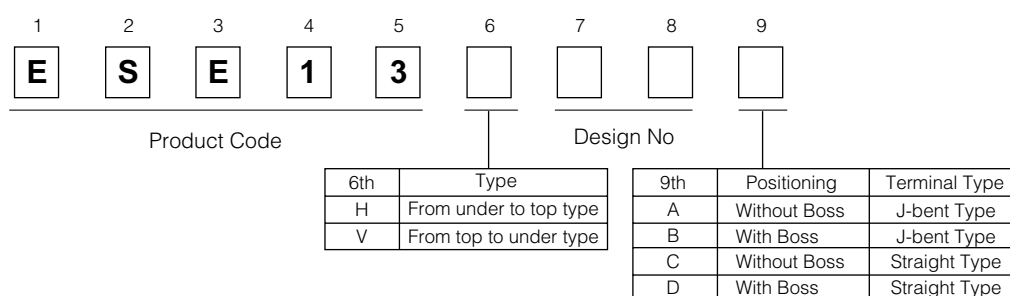
■ Features

- 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.

00 Sep. 2010

■ Dimensions in mm (not to scale)

No. 1 ESE13V J-bent terminals 1-pole 1-throw With boss ESE13V01B Without boss ESE13V01A		PWB mounting hole for reference (Pitch tolerance: ±0.05)
No. 2 ESE13V Straight terminals 1-pole 1-throw With boss ESE13V01D Without boss ESE13V01C		PWB mounting hole for reference (Pitch tolerance: ±0.05)
No. 3 ESE13H J-bent terminals 1-pole 1-throw With boss ESE13H01B Without boss ESE13H01A		PWB mounting hole for reference (Pitch tolerance: ±0.05)

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■ Dimensions in mm (not to scale)

No. 4

ESE13H Straight terminals 1-pole 1-throw

With boss

ESE13H01D

Without boss

ESE13H01C

Common terminal

Separate terminal

Full travel

ON start position

Pivot center

ON angular dimension

0.77±0.3

(2.14±0.35)

0.2 max

0.4

0.58

0.6

0.65

0.5

0.38

0.55

2±0.05

1.0

3.0

3.05±0.3

1.6±0.3

1.2±0.2

15°

4.2

2.3

3.6

1.2

Common terminal

Separate terminal

PWB mounting hole for reference
(Pitch tolerance: ±0.05)

0.7

2.0

4.6

2.2

3

4.3

0.55

2-φ0.8 ±0.1

0.7

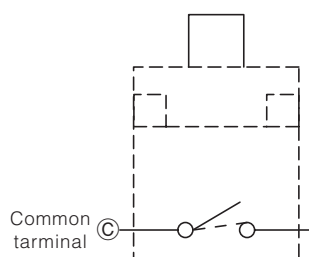
0.65

0.5

φ0.6 ±0.1

■ Circuit Diagram

1-pole 1-throw (N.O)

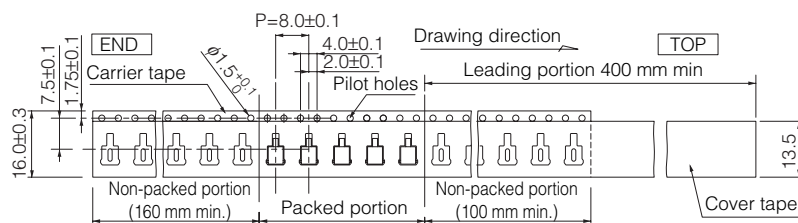
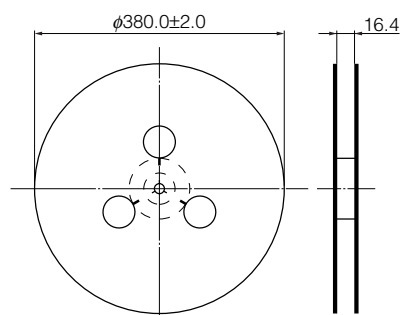


■ Packaging Specifications

Standard Reel Dimensions in mm (not to scale)

Taping Reel

Embossed Carrier Taping



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