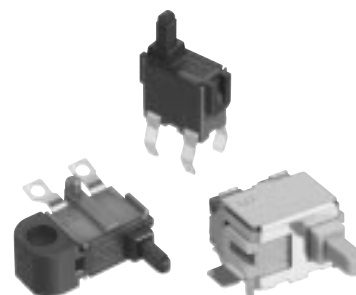


5N Detector Switches

Type: **ESE11**



■ Features

- Wide range of customizable features including operational directions
- Light operating force
- Wide available range for reflow soldering

■ Recommended Applications

- Detection of media in portable electronic equipment

■ Explanation of Part Numbers

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

■ 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. (Full Travel)
Mounting Height	· Type SV 4.9 mm · Type MV 4.9 mm (MV2, 7 : 5.4 mm) · Type SH 5.25 mm · Type MH 4.25 mm · Type HS, SF 3.6 mm
Poles and Throws	1-pole 1-throw
Full Travel (Pushing distance)	· Type SV 6.1 mm (2.4 mm) · Type MV 6.1 mm (2.4 mm) · Type SH 3.0 mm (2.4 mm) · Type MH 1.7 mm (2.4 mm) · Type HS, SF 6.3 mm (2.4 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

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.

Minimum Quantity/Packing Unit	ESE11SV□ ESE11MV□ ESE11SH□ ESE11MH□ ESE11HS□ ESE11SF□	200 pcs. Polyethylene Bag (Bulk)
	ESE11MV□T (Excluding : ESE11MV2)	800 pcs. Embossed Taping (Reel Pack)
	ESE11MH□T	1500 pcs. Embossed Taping (Reel Pack)
Quantity/ Carton	ESE11SV□ ESE11MV□ ESE11SH□ ESE11MH□ ESE11HS□ ESE11SF□	10000 pcs. Polyethylene Bag (Bulk)
	ESE11MV2	8000 pcs. Polyethylene Bag (Bulk)
	ESE11MV□T (Excluding : ESE11MV2)	4800 pcs. Embossed Taping (Reel Pack)
	ESE11MH□T	9000 pcs. Embossed Taping (Reel Pack)

■ Dimensions in mm (not to scale)

	No. 1	ESE11SV1 For wave soldering 1-pole 1-throw	No. 2	ESE11MV1 For reflow soldering 1-pole 1-throw
	Vertical Type		Gold plating ESE11MV5	
	Top view dimensions: 5.2, 6.4, 2.2, 3.0 Side view dimensions: 1.0, 2.45, 0.8, 1.0, 4.9, 8.5, 1.0, 2.3, 0.95, 1.27, 6.1, 7.75, 0.1, 1.2, 0.1, 0.3 Lever view dimensions: 3.3, 2.3, 0.95, 2.45 PWB mounting hole for reference View from (A)		Top view dimensions: 1.51, 1.0, 2.2, 3.0, 5.2, 6.4 Side view dimensions: 1.0, 1.65, 1.0, 4.9, 8.5±0.2, 1.0, 1.65±0.1, 1.75, 1.27, 6.1, 7.75, 0.8, 1.2, 0.1 Lever view dimensions: 1.85, 1.4, 1.4, 2.0±0.2, 1.4, 3.25, 3.35 PWB mounting hole for reference View from (A)	

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00 Oct. 2012

■ Dimensions in mm (not to scale)

Vertical Type	No. 3 ESE11MV9 For reflow soldering 1-pole 1-throw Gold plating ESE11MV13 PWB mounting hole for reference View from (A)	No. 4 ESE11MV2 For reflow soldering 1-pole 1-throw PWB mounting hole for reference View from (A)
	No. 5 ESE11SH1C For reflow soldering 1-pole 1-throw Gold plating ESE11SH5 PWB mounting hole for reference View from (A)	No. 6 ESE11SH2C For wave soldering 1-pole 1-throw Gold plating ESE11SH6 PWB mounting hole for reference View from (A)

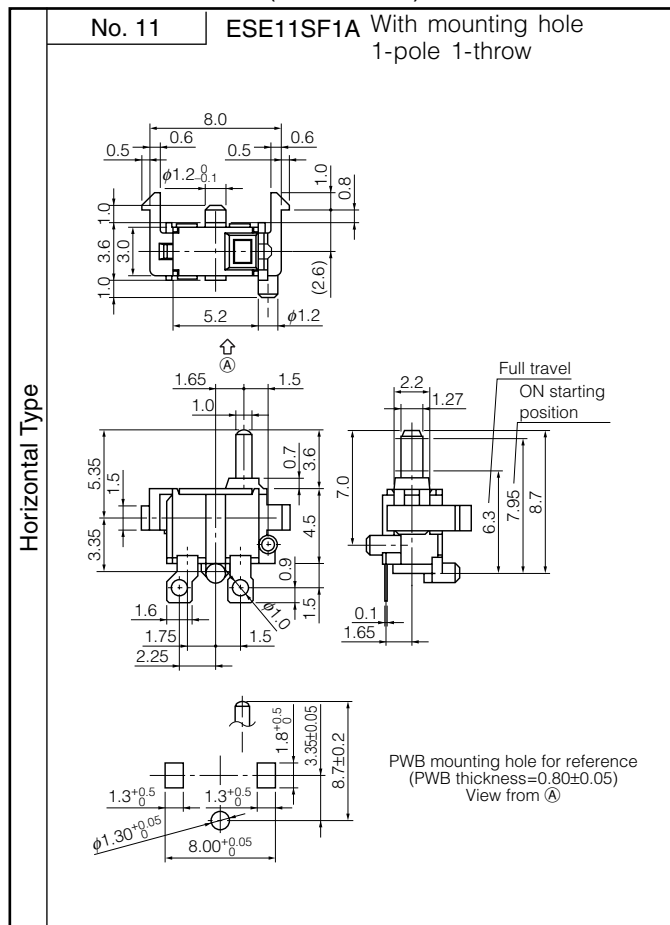
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■ Dimensions in mm (not to scale)

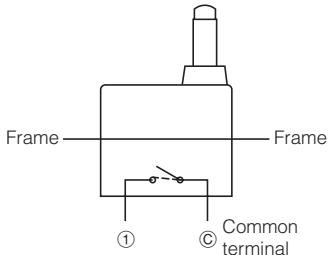
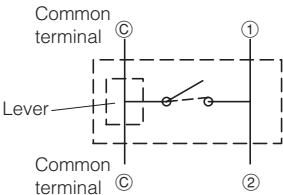
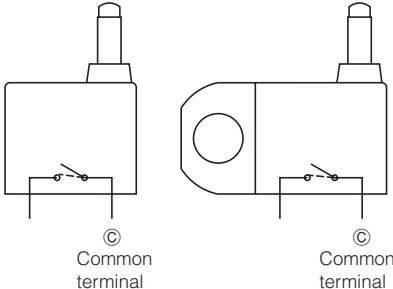
Horizontal Type	No. 7 ESE11MH1 For wave soldering 1-pole 1-throw Gold plating ESE11MH3 PWB mounting hole for reference View from (A) Full travel ON starting position	No. 8 ESE11MH2 For reflow soldering 1-pole 1-throw Gold plating ESE11MH4 PWB mounting hole for reference View from (A) Full travel ON starting position
	No. 9 ESE11HS1 For reflow soldering 1-pole 1-throw ON starting position Full travel Full travel ON starting position View from side (A) View from side (B) PWB mounting hole for reference M2 screw hole	No. 10 ESE11HS2 For reflow soldering 1-pole 1-throw ON starting position Full travel Full travel ON starting position View from side (A) View from side (B) PWB mounting hole for reference M2 screw hole

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■ Dimensions in mm (not to scale)

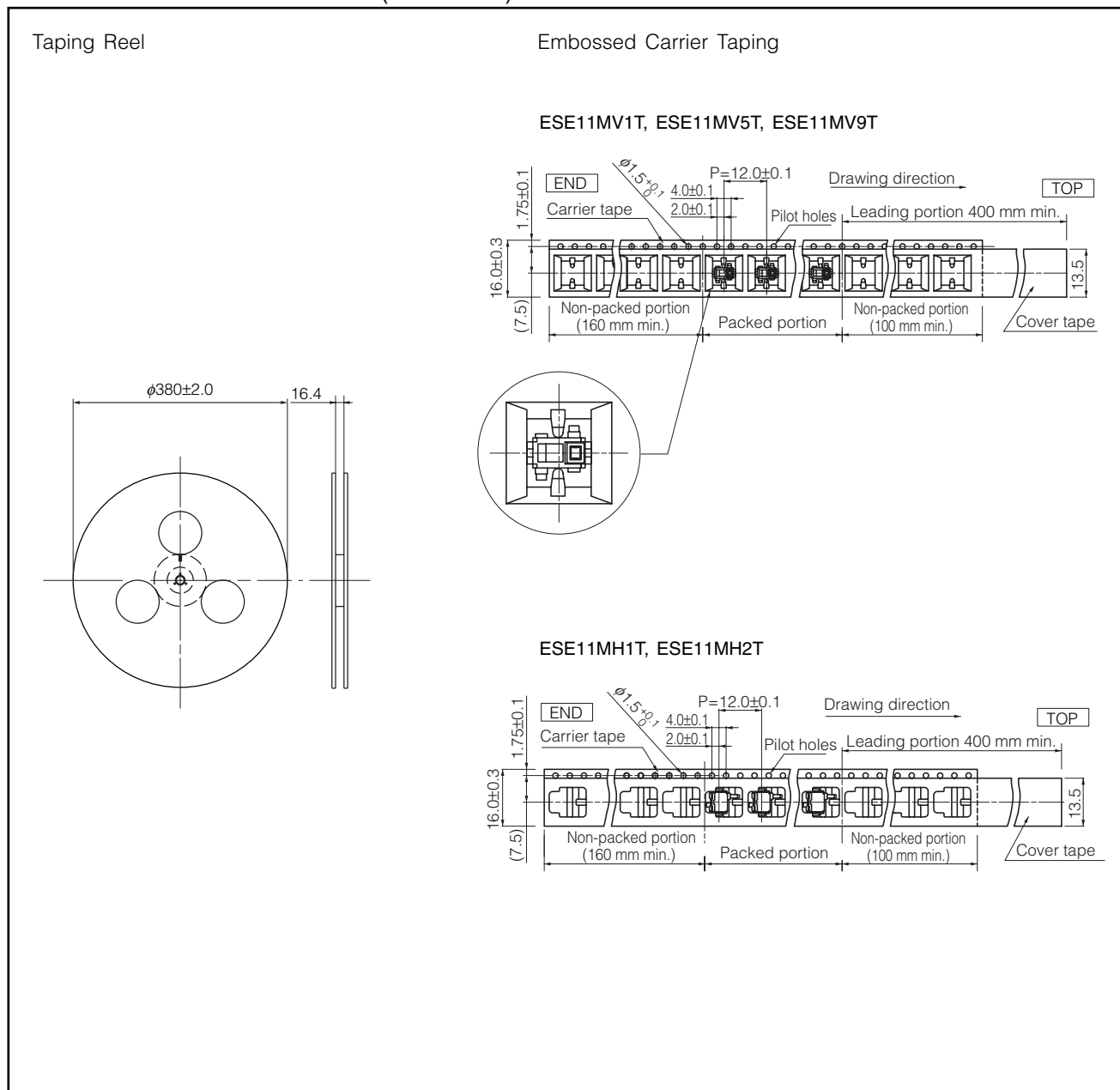


■ Circuit Diagram

MH, SH Type	MV, SV Type	SF, HS Type
1-pole 1-throw (N.O)	1-pole 1-throw (N.O)	1-pole 1-throw (N.O)
		

■ Packaging Specifications

Standard Reel Dimensions in mm (not to scale)



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