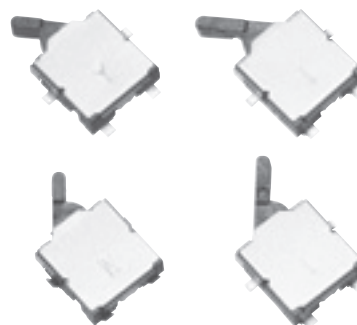


ESE18 Detector Switches

Type: **ESE18**

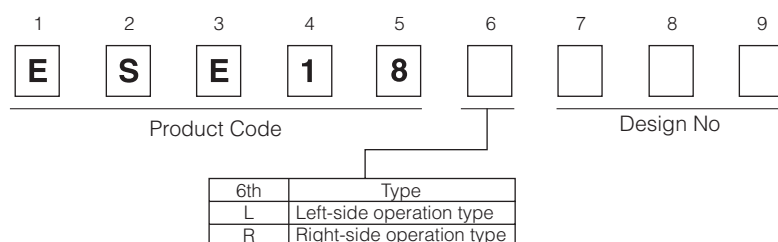
■ Features

- Thin body: 1.2 mm
- Circuit type: Normally-open and normally-closed types are available.
- Travel: Standard stroke type: 1.5 mm
Long stroke type: 2.15 mm
- Surface mounted type: Packed with embossed tape. Supports reflow soldering.

■ Recommended Applications

- Detection of media in portable electronic equipment (Mobile phones/CD-ROM/DVD players, Digital still cameras)

■ Explanation of Part Numbers

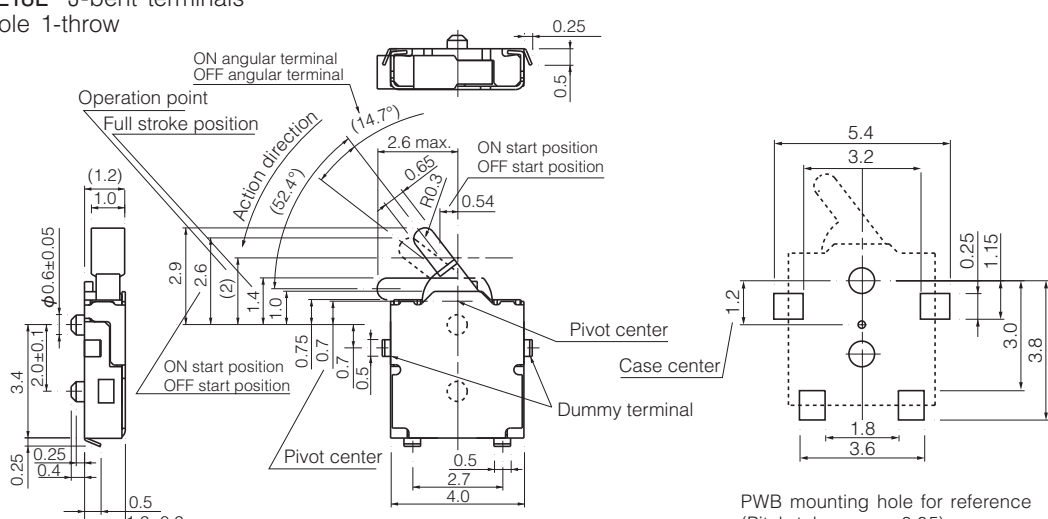
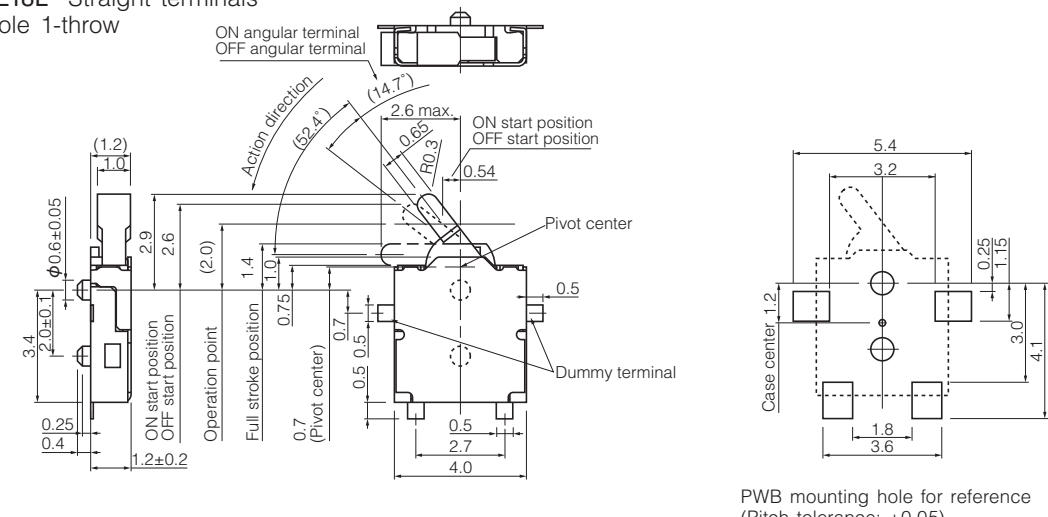
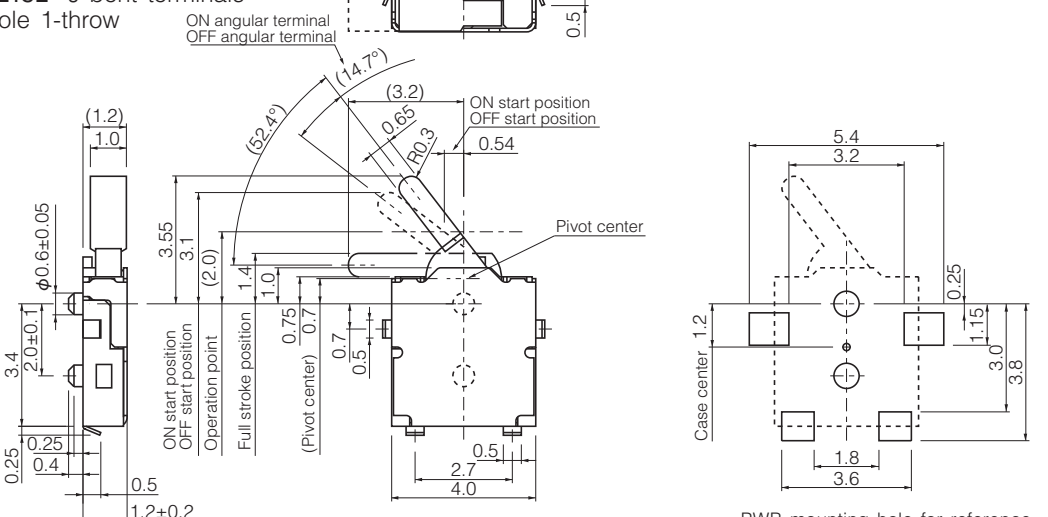


■ Specifications

Rating	50 μ A 3 V DC to 10 mA 5 V DC (Resistive load)
Contact Resistance	500 m Ω max. (Initial)
Insulation Resistance	100 M Ω min. (at 100 V DC for 1 minute)
Dielectric Withstanding Voltage	100 V AC (50 Hz or 60 Hz) for 1 minute
Operating Force	300 mN max.
Mounting Height	1.2 mm
Poles and Throws	1-pole 1-throw
Full Travel (Pushing distance)	· Standard stroke type · Long stroke type With boss : 1.4 mm (1.5 mm) With boss : 1.4 mm (2.15 mm) Without boss : 2.1 mm (1.5 mm) Without boss : 2.1 mm (2.15 mm)
Operating Life	50,000 cycles min.
Temperature Range	-10 °C to +60 °C (Standard), -40 °C to +85 °C (Automotive)
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	5,000 pcs. Embossed Taping (Reel Pack)
Quantity/Cartron	30,000 pcs.

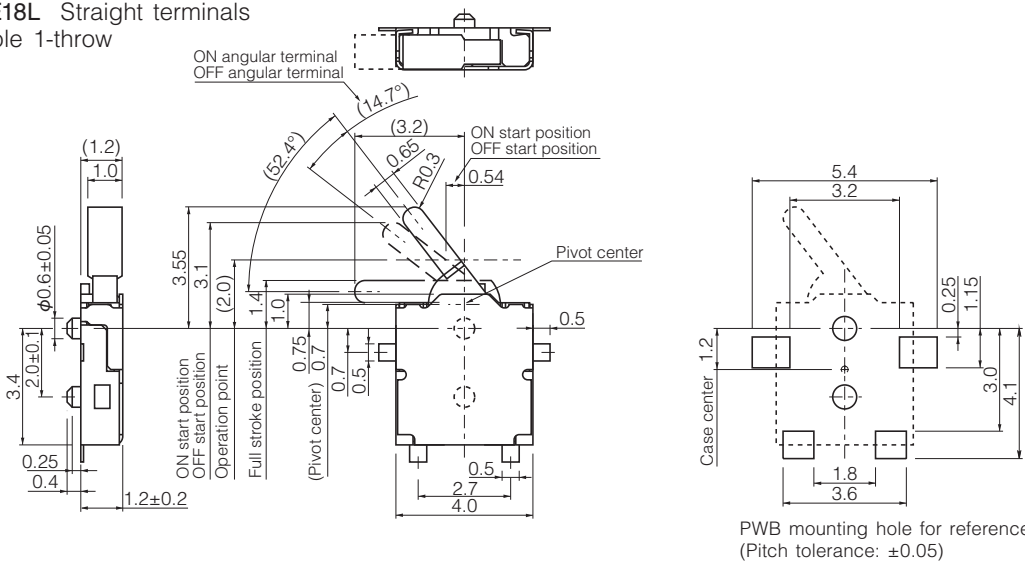
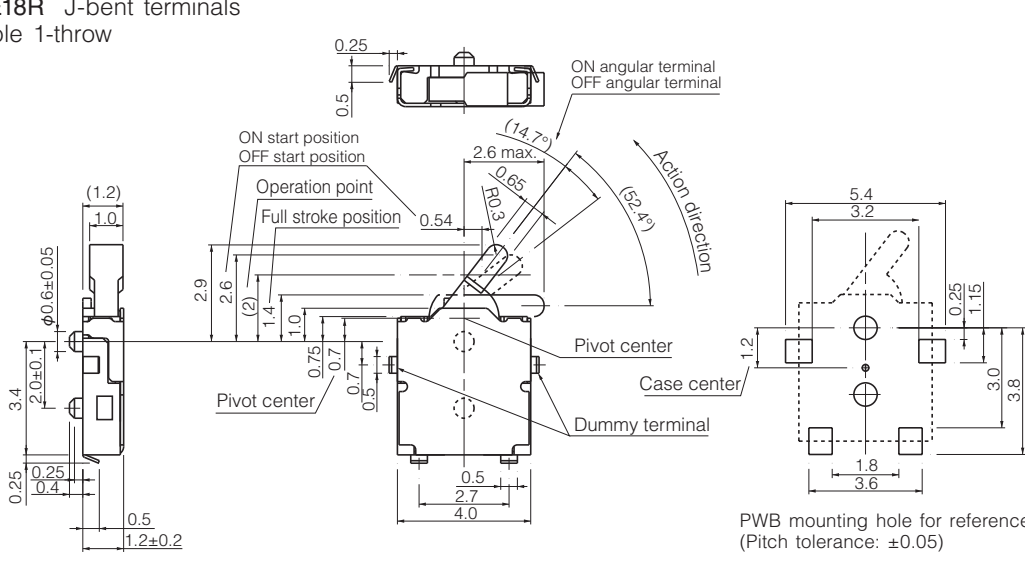
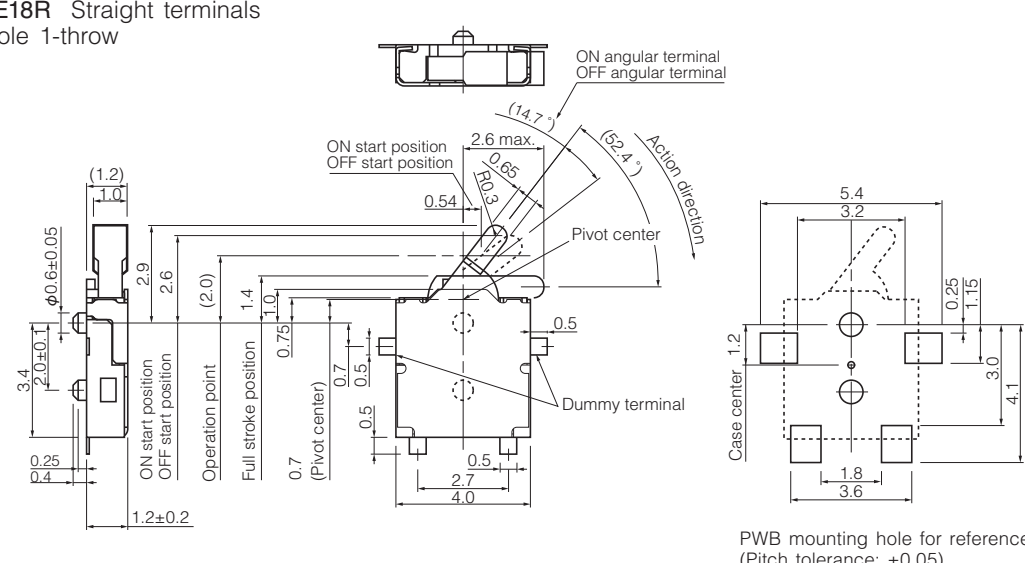
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Dimensions in mm (not to scale)

<p>No. 1</p> <p>Standard stroke type ESE18L J-bent terminals 1-pole 1-throw</p> <p>Normal open with Boss ESE18L11B</p> <p>Normal open without Boss ESE18L11A</p> <p>Normal closed with Boss ESE18L61B</p> <p>Normal closed without Boss ESE18L61A</p>	
<p>No. 2</p> <p>Standard stroke type ESE18L Straight terminals 1-pole 1-throw</p> <p>Normal open with Boss ESE18L11D</p> <p>Normal open without Boss ESE18L11C</p> <p>Normal closed with Boss ESE18L61D</p> <p>Normal closed without Boss ESE18L61C</p>	
<p>No. 3</p> <p>Long stroke type ESE18L J-bent terminals 1-pole 1-throw</p> <p>Normal open with Boss ESE18L12B</p> <p>Normal open without Boss ESE18L12A</p> <p>Normal closed with Boss ESE18L62B</p> <p>Normal closed without Boss ESE18L62A</p>	

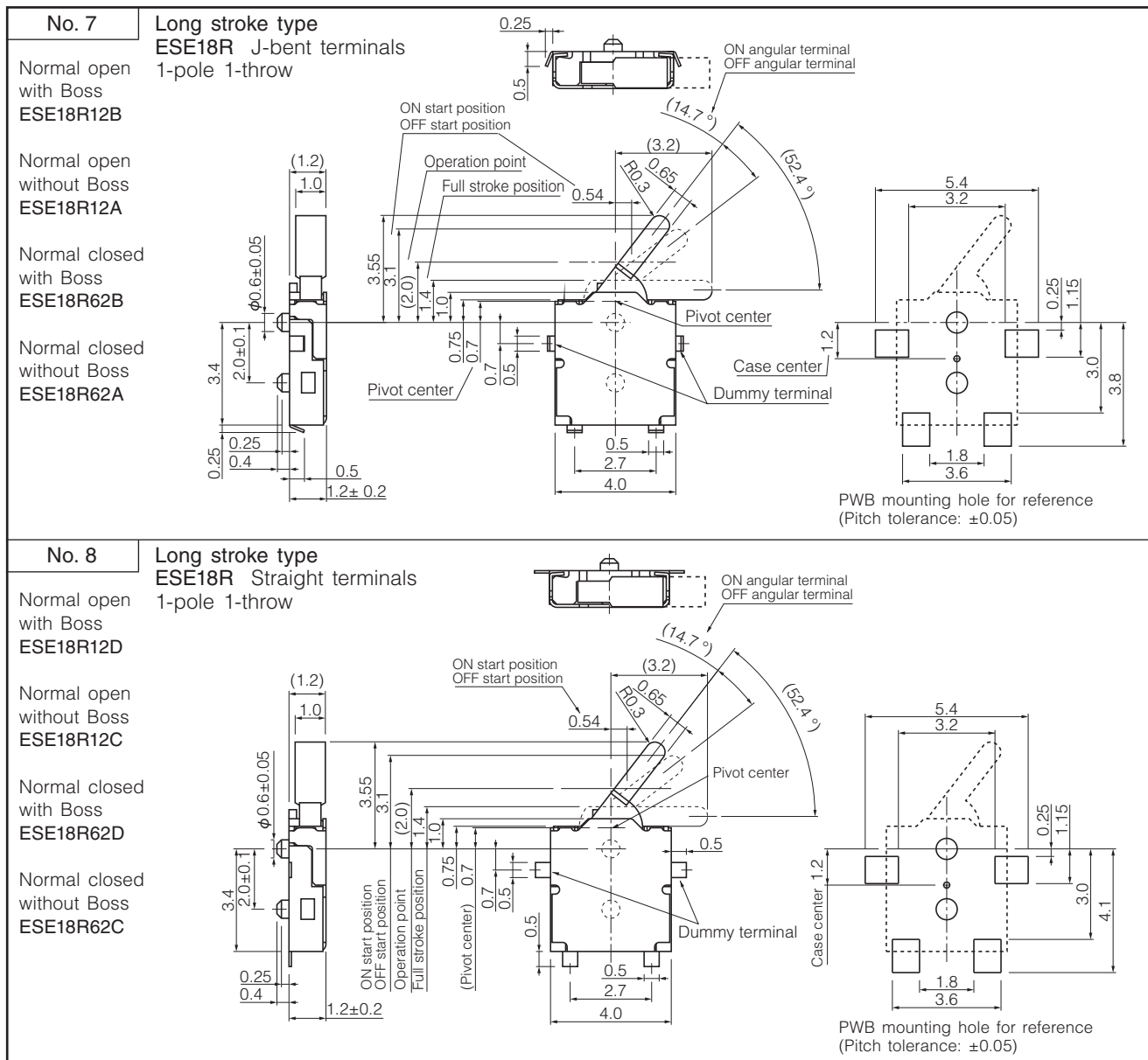
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
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■ Dimensions in mm (not to scale)

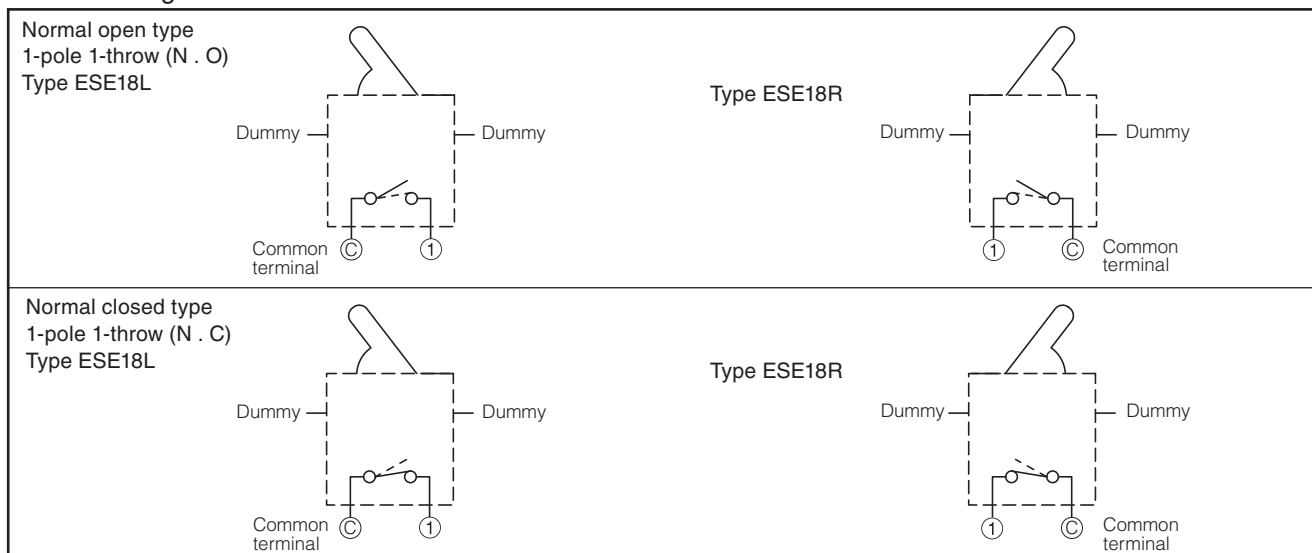
<p>No. 4</p> <p>Long stroke type ESE18L Straight terminals 1-pole 1-throw</p> <p>Normal open with Boss ESE18L12D</p> <p>Normal open without Boss ESE18L12C</p> <p>Normal closed with Boss ESE18L62D</p> <p>Normal closed without Boss ESE18L62C</p>	
<p>No. 5</p> <p>Standard stroke type ESE18R J-bent terminals 1-pole 1-throw</p> <p>Normal open with Boss ESE18R11B</p> <p>Normal open without Boss ESE18R11A</p> <p>Normal closed with Boss ESE18R61B</p> <p>Normal closed without Boss ESE18R61A</p>	
<p>No. 6</p> <p>Standard stroke type ESE18R Straight terminals 1-pole 1-throw</p> <p>Normal open with Boss ESE18R11D</p> <p>Normal open without Boss ESE18R11C</p> <p>Normal closed with Boss ESE18R61D</p> <p>Normal closed without Boss ESE18R61C</p>	

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■ Dimensions in mm (not to scale)



■ Circuit Diagram



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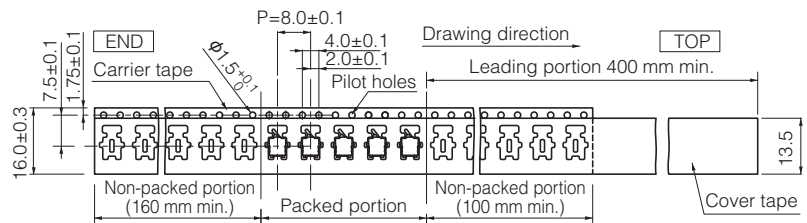
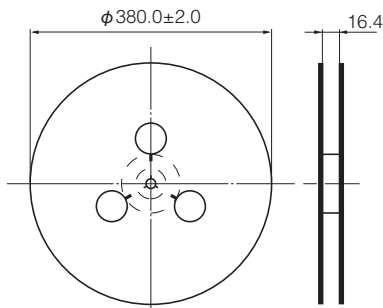
■ Packaging Specifications

Standard Reel Dimensions in mm (not to scale)

Standard stroke type
Long stroke type

Taping Reel

Embossed Carrier Taping



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