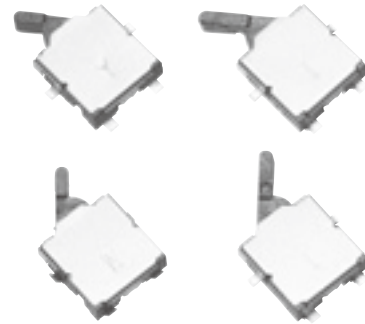


### ESE18 Detector Switches

Type: **ESE18**



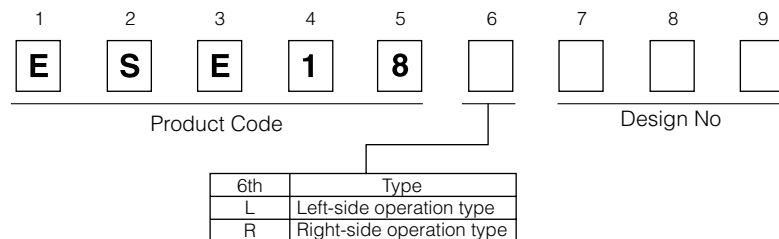
#### ■ Features

- 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 $\mu$ A 3 V DC to 10 mA 5 V DC (Resistive load)						
Contact Resistance	500 m $\Omega$ max. (Initial)						
Insulation Resistance	100 M $\Omega$ 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)	<table style="width: 100%; border: none;"> <tr> <td style="border: none;">· Standard stroke type</td> <td style="border: none;">· Long stroke type</td> </tr> <tr> <td style="border: none;">With boss : 1.4 mm (1.5 mm)</td> <td style="border: none;">With boss : 1.4 mm (2.15 mm)</td> </tr> <tr> <td style="border: none;">Without boss : 2.1 mm (1.5 mm)</td> <td style="border: none;">Without boss : 2.1 mm (2.15 mm)</td> </tr> </table>	· 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)
· 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/Carton	30,000 pcs.						

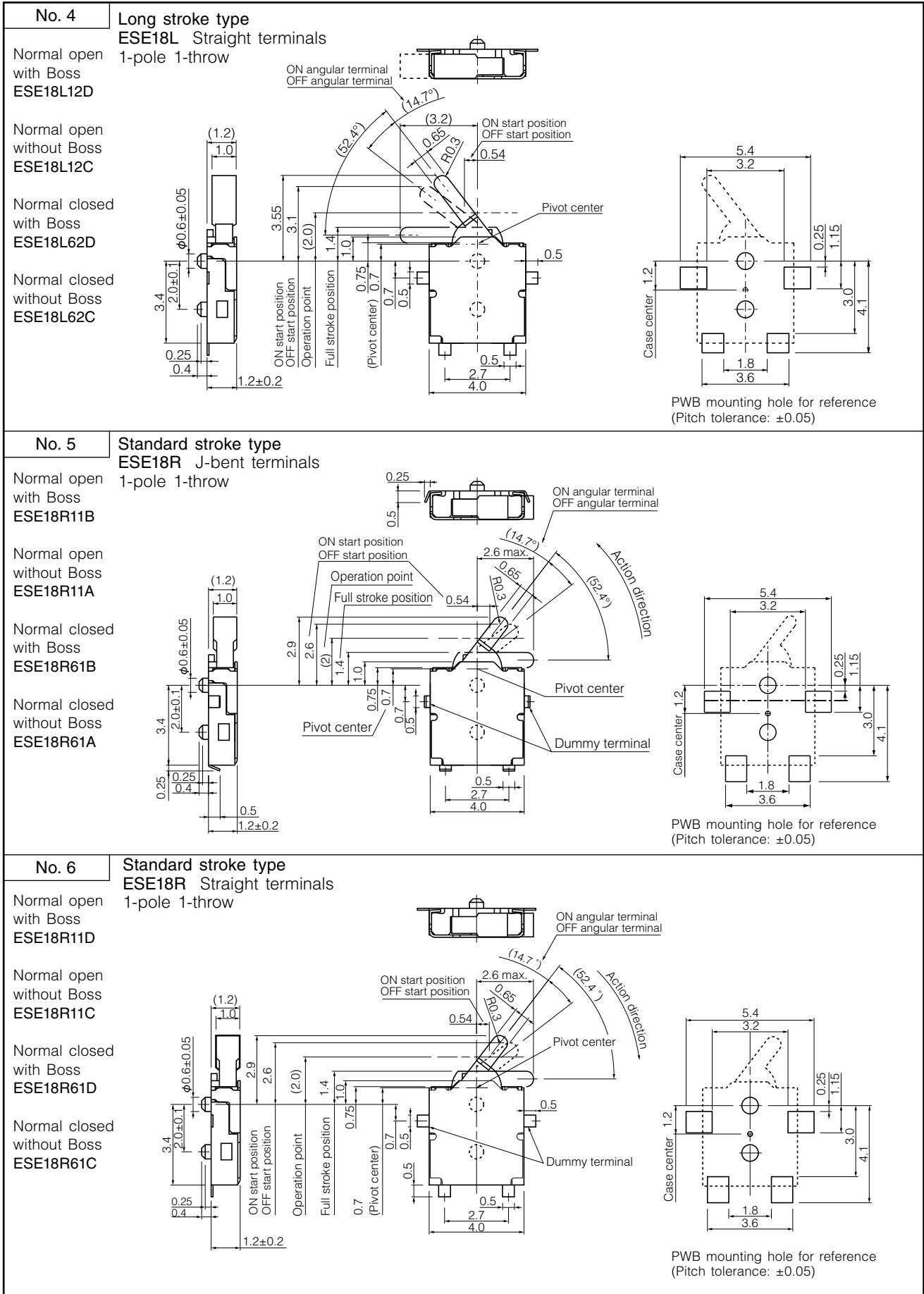
Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

### ■ Dimensions in mm (not to scale)

<p><b>No. 1</b></p> <p><b>Standard stroke type</b> 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>PWB mounting hole for reference (Pitch tolerance: ±0.05)</p>
<p><b>No. 2</b></p> <p><b>Standard stroke type</b> 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>PWB mounting hole for reference (Pitch tolerance: ±0.05)</p>
<p><b>No. 3</b></p> <p><b>Long stroke type</b> 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>		<p>PWB mounting hole for reference (Pitch tolerance: ±0.05)</p>

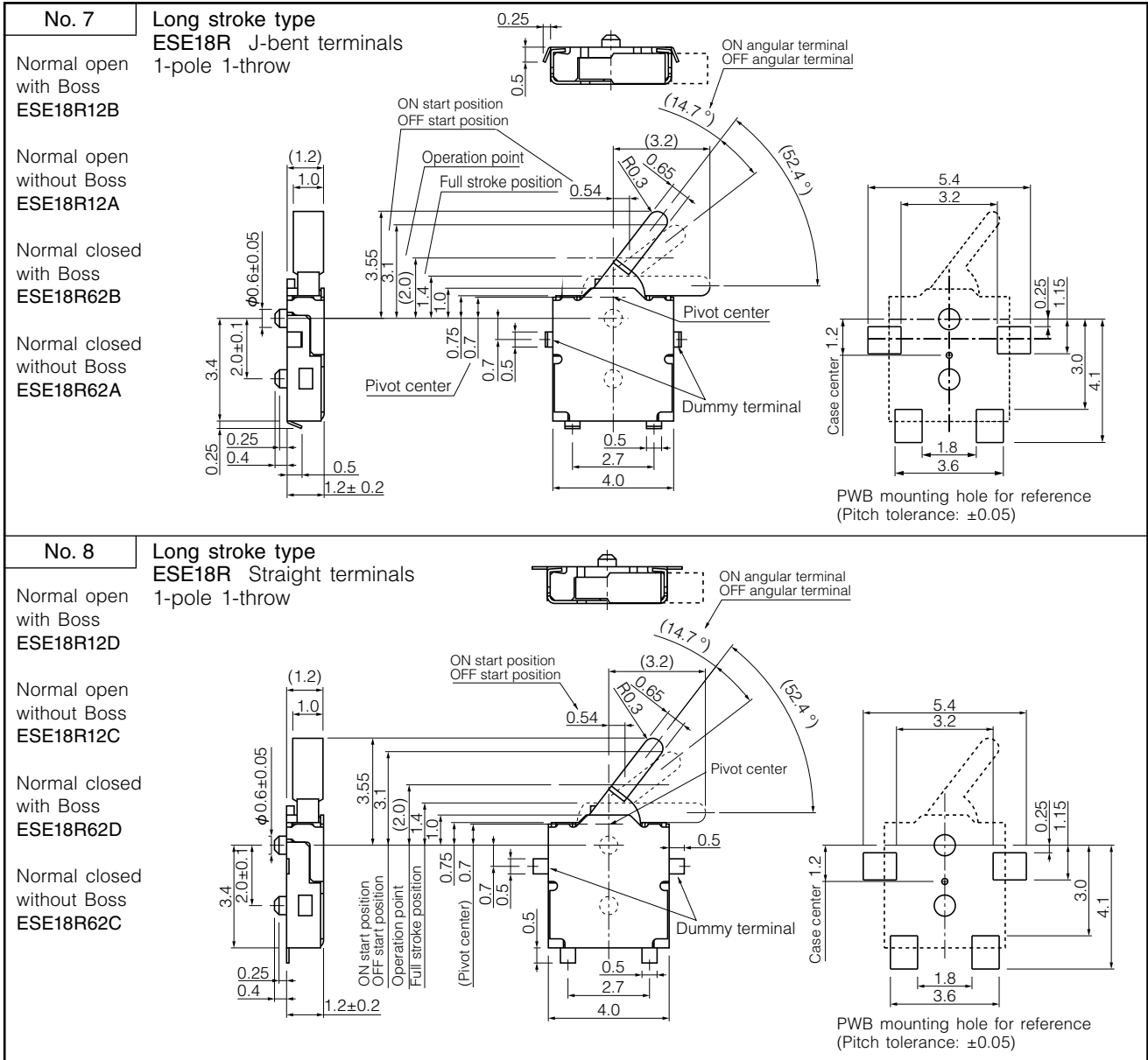
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■ Dimensions in mm (not to scale)

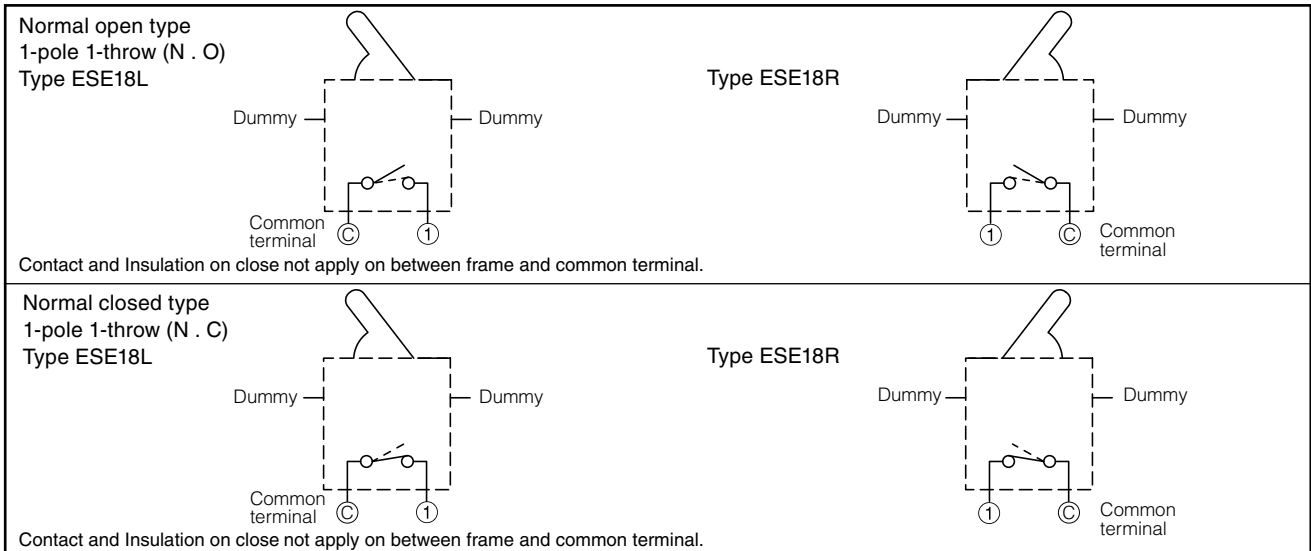


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### ■ Dimensions in mm (not to scale)

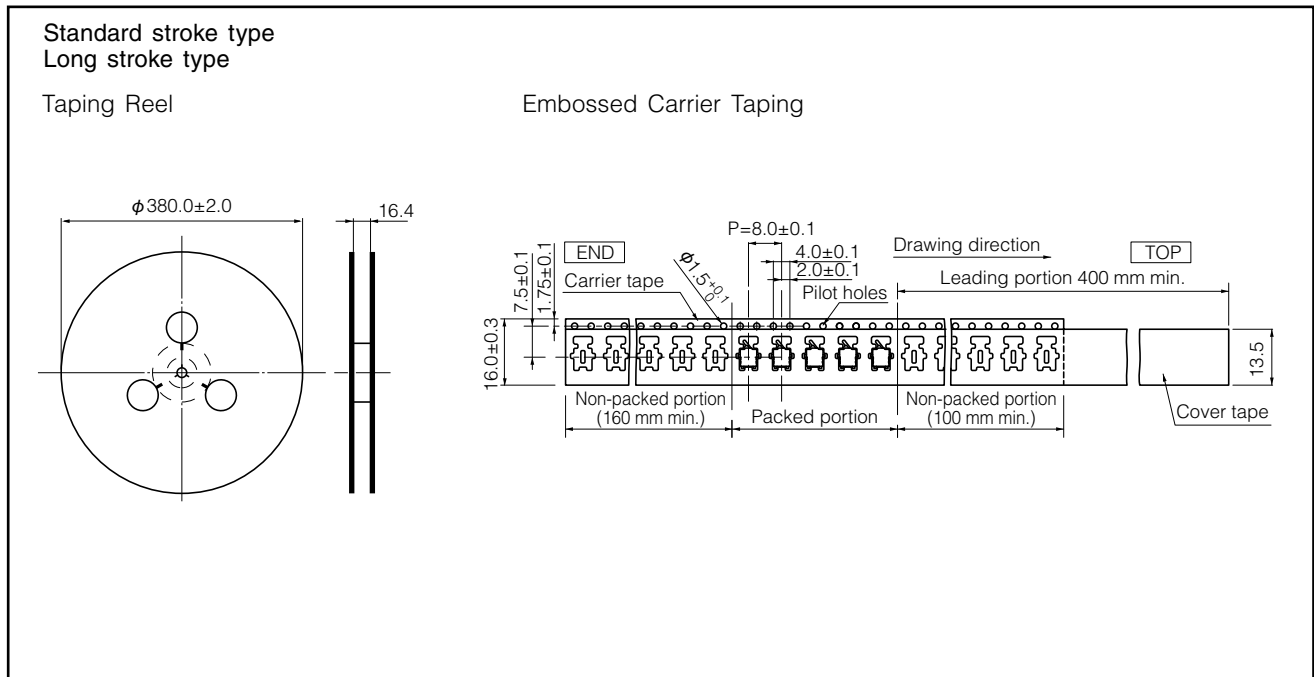


### ■ Circuit Diagram



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■ Packaging Specifications  
Standard Reel Dimensions in mm (not to scale)



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## Requests to customers

Please refer to "the latest product specifications" when designing your product.

Requests to customers :

<https://industrial.panasonic.com/ac/e/salespolicies/>

## Safety Precautions

When using our products, no matter what sort of equipment they might be used for, be sure to confirm the applications and environmental conditions with our specifications in advance.

Please contact .....

**Panasonic Corporation**

Electromechanical Control Business Division

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