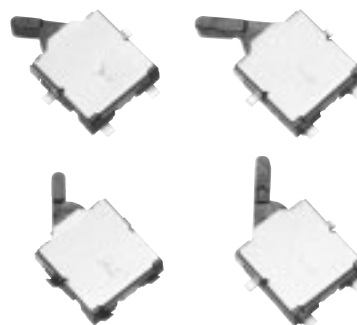


1HL Detector Switches

Type: **ESE18**



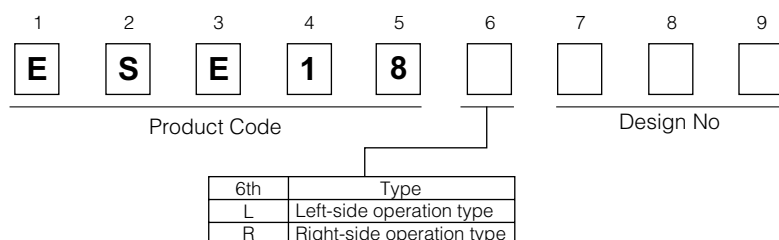
■ Features

- 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 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)	· Standard stroke type With boss : 1.4 mm (1.5 mm) Without boss : 2.1 mm (1.5 mm) · Long stroke type With boss : 1.4 mm (2.15 mm) Without boss : 2.1 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	5000 pcs. Embossed Taping (Reel Pack)	
Quantity/Cartron	30000 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 Standard stroke type ESE18L J-bent terminals 1-pole 1-throw Normal open with Boss ESE18L11B Normal open without Boss ESE18L11A Normal closed with Boss ESE18L61B Normal closed without Boss ESE18L61A	
No. 2 Standard stroke type ESE18L Straight terminals 1-pole 1-throw Normal open with Boss ESE18L11D Normal open without Boss ESE18L11C Normal closed with Boss ESE18L61D Normal closed without Boss ESE18L61C	
No. 3 Long stroke type ESE18L J-bent terminals 1-pole 1-throw Normal open with Boss ESE18L12B Normal open without Boss ESE18L12A Normal closed with Boss ESE18L62B Normal closed without Boss ESE18L62A	

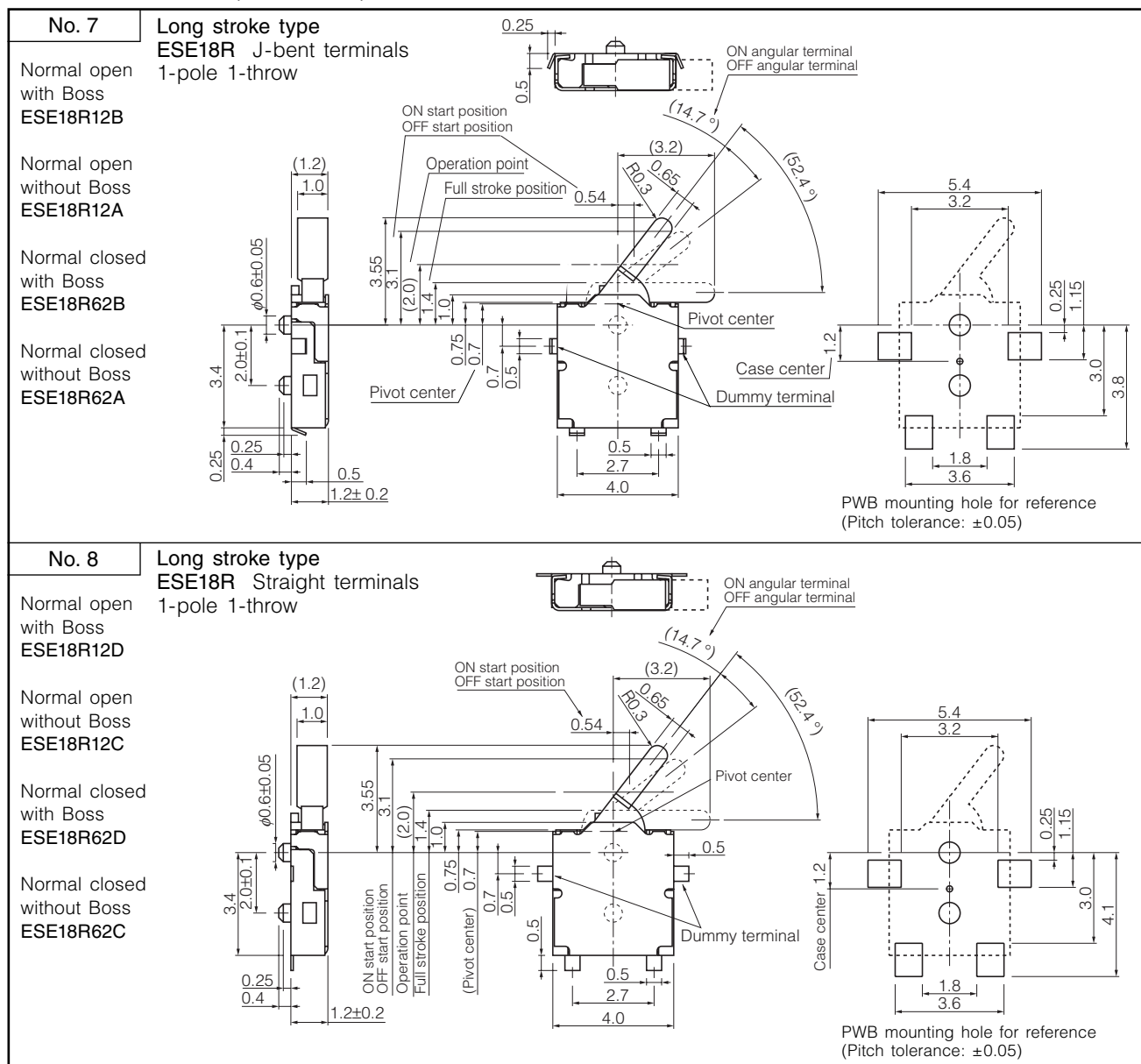
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■ Dimensions in mm (not to scale)

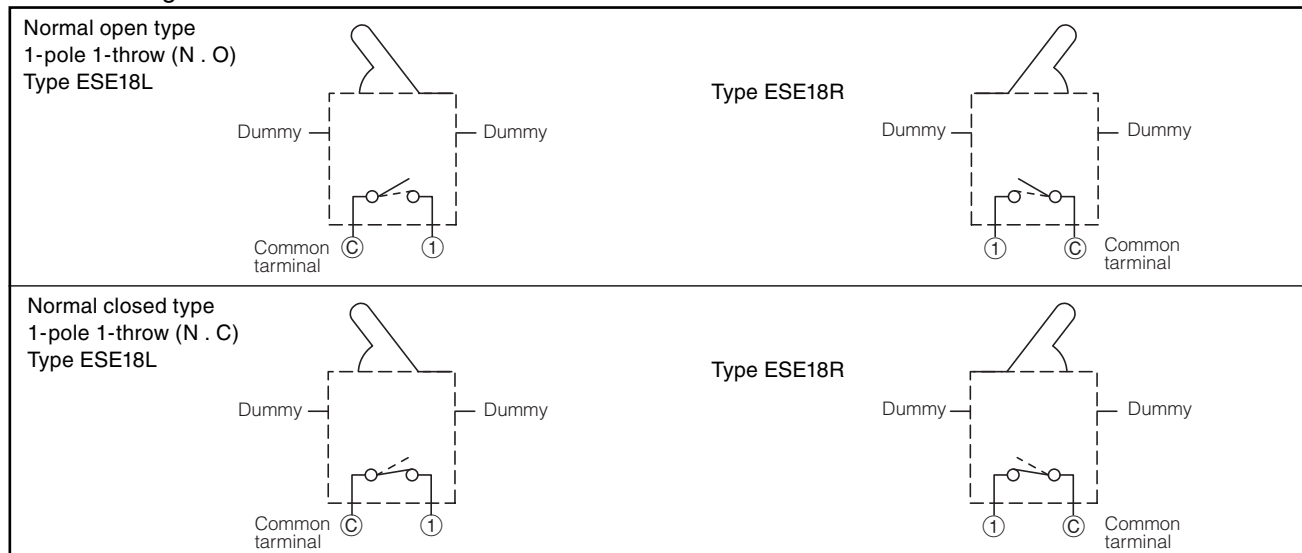
No. 4 Long stroke type ESE18L Straight terminals 1-pole 1-throw Normal open with Boss ESE18L12D Normal open without Boss ESE18L12C Normal closed with Boss ESE18L62D Normal closed without Boss ESE18L62C	PWB mounting hole for reference (Pitch tolerance: ±0.05)
No. 5 Standard stroke type ESE18R J-bent terminals 1-pole 1-throw Normal open with Boss ESE18R11B Normal open without Boss ESE18R11A Normal closed with Boss ESE18R61B Normal closed without Boss ESE18R61A	PWB mounting hole for reference (Pitch tolerance: ±0.05)
No. 6 Standard stroke type ESE18R Straight terminals 1-pole 1-throw Normal open with Boss ESE18R11D Normal open without Boss ESE18R11C Normal closed with Boss ESE18R61D Normal closed without Boss ESE18R61C	PWB mounting hole for reference (Pitch tolerance: ±0.05)

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Should a safety concern arise regarding this product, please be sure to contact us immediately.

■ Dimensions in mm (not to scale)



■ Circuit Diagram



■ Packaging Specifications

Standard Reel Dimensions in mm (not to scale)

Standard stroke type
Long stroke type

Taping Reel

Embossed Carrier Taping

