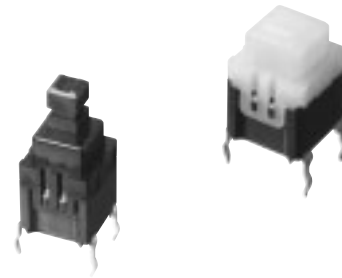


## ESE20C/20D Momentary Push Switches

Type: **ESE20C/ESE20D**  
(H=8.9 mm)



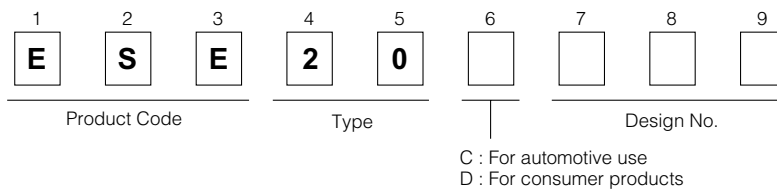
### ■ Features

- User-friendly tactile feedback when operated
- Long over-travel

### ■ Recommended Applications

- Operation switches for automobiles (switches for heater controls, overdrive, steering, etc.)

### ■ Explanation of Part Numbers



### ■ Specifications

Rating	0.01 A 5 Vdc to 0.1 A 14 Vdc (Resistive load)
Full Travel	2.5 mm
Mounting Height	8.9 mm
Poles and Throws	1-pole 1-throw
Operating Mode	Non-lock
Operating Force	2.0 N±1.0 N, 4.0 N±1.5 N
Minimum Quantity/Packing Unit	60 pcs. Polyethylene Bag (Bulk)
Quantity/Carton	1200 pcs.

### ■ Standard Products

Full Travel	Operating Force	Lever Height	Terminal Shape	
			Straight	Formed
2.5 mm	2.0 N±1.0 N	12.5 mm	ESE20*323	ESE20*321
		17.5 mm	ESE20*423	ESE20*421
	4.0 N±1.5 N	12.5 mm	ESE20*343	ESE20*341
		17.5 mm	ESE20*443	ESE20*441

\*-C : For automotive use    D : For consumer products

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)

**No. 1**

**ESE20\*4□□**  
 \*...C : For automotive use  
 D : For consumer products  
 1-pole 1-throw

Top view dimensions: 7.8, 7.9, 7.9, 7.9. Points a, b, c, d are marked at the corners.

Side view dimensions: 5.7, 3.3±0.1, 2.5, 1.5, 2.5±0.1, 1.0±0.15, 5.5, 17.5, 8.9, 3.5, 9.1±0.5, 0.35, R1.6, 4-∅1<sup>+0.05</sup><sub>0</sub>.

Terminal view dimensions: 5.7, R0.5, 6.0, 0.7.

Terminal detail: Straight Terminal, 3.6, (8.0).

F-S Characteristics graph: Operating Force (N) vs Travel (mm). Type 4 N peaks at ~3.8 N, Type 2 N peaks at ~2.0 N.

PWB mounting hole for reference  
 Tolerance : ±0.05 (t=1.6 mm)  
 View from terminal side

Circuit diagram: Shows a single switch with terminals a, b, c, d and a 'Push' indicator.

**No. 2**

**ESE20\*3□□**  
 \*...C : For automotive use  
 D : For consumer products  
 1-pole 1-throw

Top view dimensions: 7.8, 7.9, 7.9, 7.9. Points a, b, c, d are marked at the corners.

Side view dimensions: 5.7, 3.3, 11.0±0.5, 10.0±0.5, 8.9, 12.5, 3.5, 9.1±0.5, 0.35, R1.6, 4-∅1<sup>+0.05</sup><sub>0</sub>.

Terminal view dimensions: 5.7, R0.5, 6.0, 0.7.

PWB mounting hole for reference  
 Tolerance : ±0.05 (t=1.6 mm)  
 View from terminal side

Circuit diagram: Shows a single switch with terminals a, b, c, d and a 'Push' indicator.

### ■ Application Notes:

- Operating force should be applied at the center of the lever.

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