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[Panasonic Electronic Components](#)
[ESE-22MH52](#)

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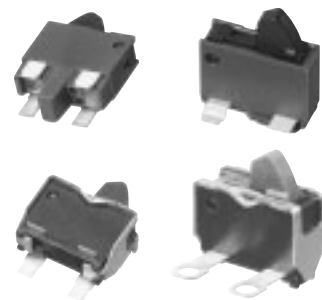
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Panasonic

Detector Switches/ESE22

2N Detector Switches

Type: **ESE22**



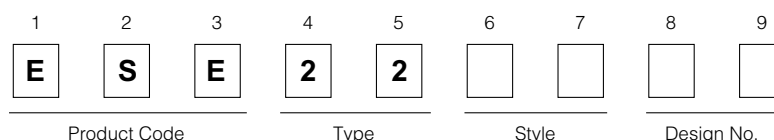
■ Features

- Can be operated with different actuation angles (horizontally and vertically)
- Reflow soldering
- Light operating force

■ Recommended Applications

- Detection of media in portable electronic equipment

■ 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	· Type MV 4.1 mm · Type MH 2.1 mm · Type MH with Frame 2.85 mm		
Poles and Throws	1-pole 1-throw		
Full Travel (Pushing distance)	· Type MV 4.25 mm(2.05 mm) · Type MH 1.2 mm(2.0 mm) · Type MH with Frame 0.6 mm(2.0 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		
Minimum Quantity/Packing Unit	500 pcs. Polyethylene Bag (Bulk)		
	· Type MV	1000 pcs.	Embossed Taping (Reel Pack)
	· Type MH with Frame	3000 pcs.	Embossed Taping (Reel Pack)
	· Type MH	4000 pcs.	Embossed Taping (Reel Pack)
Quantity/Carton	10000 pcs. Polyethylene Bag (Bulk)		
	· Type MV	6000 pcs.	Embossed Taping (Reel Pack)
	· Type MH with Frame	18000 pcs.	Embossed Taping (Reel Pack)
	· Type MH	24000 pcs.	Embossed Taping (Reel Pack)

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■ Dimensions in mm (not to scale)

	Part Numbers	H : boss	Packaging
Type	ESE22MH21	0.5	Polyethylene Bag (Bulk)
	ESE22MH27	1.0	Polyethylene Bag (Bulk)
	ESE22MH22	0.5	Embossed Taping (Reel Pack)
	ESE22MH27T	1.0	Embossed Taping (Reel Pack)

No. 1	1-pole 1-throw
(The hole for flux prevention) $\phi 1.1$ hole PWB mounting hole for reference ON starting position Boss center ON starting position standard Vertical direction ON starting position Full stroke position Horizontal ON position measuring position RA5 $R\phi 0.7$ $2 \times \phi 0.3 \pm 0.05$ 2.1 max.	

	Part Numbers	H : boss	Packaging
Type	ESE22MH23	0.5	Polyethylene Bag (Bulk)
	ESE22MH28	1.0	Polyethylene Bag (Bulk)
	ESE22MH24	0.5	Embossed Taping (Reel Pack)
	ESE22MH28T	1.0	Embossed Taping (Reel Pack)

No. 2	1-pole 1-throw
$2 \phi 1.1^{+0.05}_0$ hole PWB mounting hole for reference Boss center ON starting position standard ON starting position Full stroke position Horizontal ON position measuring position Vertical direction ON starting position RA5 $R\phi 0.7$ $2 \times \phi 0.3 \pm 0.05$ 2.1 max.	

Part Numbers	Packaging
ESE22MV21	Polyethylene Bag (Bulk)
ESE22MV21T	Embossed Taping (Reel Pack)

No. 3	1-pole 1-throw
Operating direction PWB mounting hole for reference (View from A direction, SCL=1/2) Pushable height Horizontal ON position measuring position ON starting position ON starting position R0.3 R0.7 RA5 $R\phi 0.7$ $\phi 1.0_{-0}^{+0.1}$ $\phi 1.2_{-0}^{+0.1}$ CO.2 0.13 max. 0.45	

Part Numbers	Packaging
ESE22MH51	Polyethylene Bag (Bulk)
ESE22MH52	Embossed Taping (Reel Pack)

No. 4	1-pole 1-throw
With Frame Type Center of on start position in case of horizontal operation Part A Horizontal ON starting position Full stroke position Horizontal ON position measuring point Vertical direction ON starting position PWB mounting hole for reference (Tolerance:± 0.05) (Scale:1/2) ① ② ③ 0.35 max.	

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■ Dimensions in mm (not to scale)

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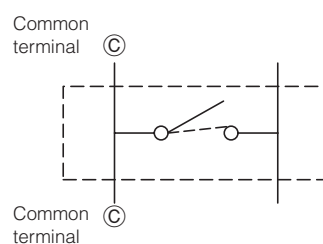
Part Numbers	Packaging
ESE22MH58	Polyethylene Bag (Bulk)
No. 7	1-pole 1-throw

Solder lug Type

Technical drawing of the ESE22MH58 1-pole 1-throw switch, Solder lug Type. The drawing includes three views: a top view, a side view, and a cross-sectional view. The top view shows the switch body with dimensions for the mounting holes (3.5mm center-to-center, 1.6mm hole diameter), the switch lever (5.95mm total width, 4.8mm and 3.5mm segments), and the solder lug (0.2mm thickness, 0.1mm gap). The side view shows the switch lever in the 'ON' position (3.35mm height) and 'OFF' position (4.15mm height), with a 2-ø1 hole for the lever. The cross-sectional view shows the internal mechanism with dimensions for the switch lever (6.15mm total length, 0.98mm and 0.28mm segments), the switch body (2.85mm total width, 2mm segments), and the solder lug (0.5mm thickness, 1±0.1mm height). The drawing also indicates the 'Full stroke position' and 'Horizontal ON starting position' for the switch lever.

■ Circuit Diagram

1-pole 1-throw (N.O)



■ Packaging Specifications

Standard Reel Dimensions in mm (not to scale)

Taping Reel

Outer diameter: 980.0 ± 2.0
 Inner diameter: 16.4
 Central hole diameter: 16.0±0.3
 Three smaller holes: 7.5±0.1

Embossed Carrier Taping

ESE22MH

Pitch: $P = 8.0 \pm 0.1$
 Carrier tape width: 4.0 ± 0.1
 Pilot holes: 2.0 ± 0.1
 Drawing direction: TOP
 Leading portion: 400 mm min.
 Non-packed portion: 160 mm min.
 Packed portion
 Non-packed portion: 100 mm min.
 Cover tape

ESE22MV

Pitch: $P = 12.0 \pm 0.1$
 Carrier tape width: 4.0 ± 0.1
 Pilot holes: 2.0 ± 0.1
 Drawing direction: TOP
 Leading portion: 400 mm min.
 Non-packed portion: 160 mm min.
 Packed portion
 Non-packed portion: 100 mm min.
 Cover tape
 Insert direction of switch