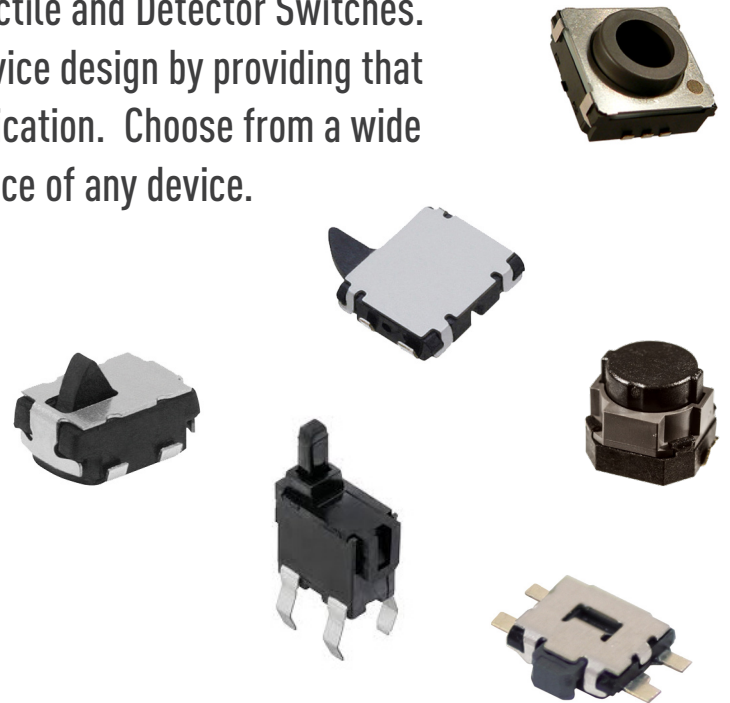




Electromechanical Switch Solutions

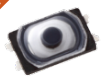
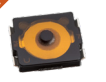
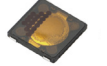
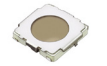
Dedicated to providing the highest level of quality, Panasonic manufactures Electromechanical Components that improve a device's overall user experience including a wide variety of Tactile and Detector Switches. Enhancing the Human-To-Machine Interface, Panasonic Switches improve device design by providing that "special touch" along with durability and reliability, no matter what the application. Choose from a wide variety of Panasonic Switch alternatives to improve the overall user experience of any device.



na.industrial.panasonic.com/products/electromechanical/switches

TACTILE SWITCHES

Panasonic's Tactile Switches are versatile and can be used in almost any user interface application. Designed in various shapes, sizes, terminals and push forces, Panasonic's Tactile Switches offer the opportunity to select the perfect Switch for the application. Each Switch is engineered for low contact resistance, small bounce noise, high contact reliability and a sharp tactile feel. Discover how designing in Panasonic Tactile Switches can enhance the Human-To-Machine interface experience.

SURFACE MOUNT												
TOP PUSH												
Series												
	EVP-BB	EVP-AW	EVP-AF	EVP-AY	EVP-AA	EVQ-6P6/ EVQ-7P6/ EVQ-9P6/EVQ-P6	EVQ-3P2/ EVQ-P2/EVQ-P9	EVQ-3PL/ EVQ-5PL/EVQ-PL/ EVQ-PT	EVQ-5P/ EVQ-PE1/EVQ-PN	EVQ-6Q/ EVQ-7Q EVQ-P0/ EVQ-Q2 EVP-BT	EVQ-9P/ EVQ-P0/ EVQ-P1	EVP-AS
External Dimensions (LxWxH) (mm)	2.6 x 1.6 x 0.50 2.6 x 1.6 x 0.53 2.6 x 1.6 x 0.55	3.0 x 2.0 x 0.6	3.0 x 2.6 x 0.65 3.0 x 2.6 x 0.70	3.4 x 2.9 x 0.7	3.5 x 2.9 x 1.7	4.1 x 4.1 x 0.35 4.1 x 4.1 x 0.43 4.1 x 4.1 x 0.58	4.7 x 3.5 x 2.1 4.7 x 3.5 x 2.5	4.9 x 4.9 x 0.8 4.9 x 4.9 x 1.5	6.0 x 3.5 x 4.3 6.0 x 3.5 x 5.0	6.5 x 6.0 x 2.0 6.5 x 6.0 x 2.5 6.5 x 6.0 x 3.1 6.5 x 6.0 x 4.3	6.0 x 6.1 x 5.0	6.0 x 6.1 x 5.0
Travel (mm)	0.11, 0.08	0.13, 0.15	0.15	0.15	0.15	0.15, 0.25	0.25, 0.70	0.25	0.25	0.20, 0.25, 0.30	1.0, 1.3	1.0, 1.3
Operating Force (N)	1.0, 1.6, 2.4	1.6, 2.4, 3.3	1.3, 1.6, 2.4, 3.4	1.6, 2.4	1.0, 1.6, 2.4, 3.5, 5.0, 7.0	1.0, 1.6, 2.4,	1.0, 1.6, 2.4, 2.5, 3.5, 4.0, 5.0	1.0, 1.6, 2.6, 3.5	1.0, 1.6, 2.4	0.5, 0.6, 0.8, 1.0, 1.3, 1.6, 2.6, 3.5	1.6, 2.0, 2.2, 2.5, 3.0, 3.5	1.6, 2.0, 2.2, 2.5, 3.0, 3.5, 3.6
Operating Life (cycles)	200k, 500k	300k, 500k	100k, 500k	500k	1M, 500k, 200k, 500k	1M, 500k	200k, 500k, 1M	500k, 200k, 2M	50k, 30k	2M, 1M, 200k, 100k	100k, 30k	100k, 30k, 200k

SURFACE MOUNT				SURFACE MOUNT						THROUGH HOLE	
TOP PUSH				SIDE PUSH						TOP PUSH	
Series											
	EVQ-Q1	EVP-AD	EVP-AX	EVP-AN	EVQ-9P7/ EVQ-P3/ EVQ-P7	EVP-AK	EVQ-PU	EVP-AE	EVQ-P4	EVQ-PE	EVQ-P0
External Dimensions (LxWxH) (mm)	8.5 x 8.5 x 6.5	9.8 x 9.8 x 4.7	3.0 x 2.6 x 0.7	3.5 x 3.5 x 1.2	3.5 x 3.55 x 1.35	3.9 x 1.9 x 1.6	4.7 x 4.5 x 1.65	4.5 x 2.6 x 2.9	6.2 x 3.0 x 3.5 6.2 x 3.4 x 3.5	6.0 x 3.5 x 4.3 6.0 x 3.5 x 5.0	6.2 x 6.2 x 7.45
Travel (mm)	1	1	0.07, 0.16	0.2	0.2	0.12	0.3	0.13, 0.15	0.25, 0.70	0.25	0.2
Operating Force (N)	4.0, 5.0	4	0.7/2.0 Double Action	1.6, 2.2	1.6, 2.2	1.6	1.6, 2.2	1.6	1.0, 1.6, 2.4, 2.5, 3.5, 5.0	1.0, 1.6, 2.4	0.74, 1.3
Operating Life (cycles)	100k	100k	100k	100k, 500k	100k	500k	100k	200k	200k, 500k, 1M	50k, 30k	5M, 1M

DETECTOR SWITCHES

Detector Switches are used to “detect” internal mechanical movements and convert human manual operations, such as the closing of a flip-phone or the opening of a door, to electronic signals. In some applications, Detector Switches are used to replace Encoders as a lower cost solution. Panasonic Detector Switches use a mechanical sliding spring design to ensure consistent signal output. They also feature long travel, thin profile, compact size, light weight, highly flexible actuation angles and surface mount or J-bent terminal mounting options.

SURFACE MOUNT									
Series									
	ESE-16	ESE-13	ESE-18	ESE-31	ESE-22	ESE-11	ESE-58	ESE-23	ESE-24
External Dimensions (LxWxH) (mm)	2.2 x 3.35 x 1.5	4.2 x 3.6 x 1.2	4.0 x 4.4 x 1.2	5.9 x 5.4 x 1.7	5.7 x 5.0 x 2.1	3.0 x 6.4 x 4.9	3.5 x 3.0 x 3.9	5.0 x 4.4 x 1.5	5.6 x 7.5 x 3.0
Travel (mm)	1.0	2.15	1.5	2.15	2.0	2.4	1.4	1.5	2.45
Operating Force (N)	250 mN (max)	300 mN (max)	300 mN (max)	390 mN (max)	290 mN (max)	350 mN (max)	350 mN (max)	300 mN (max)	350 mN (max)
Operating Life (cycles)	50k	50k	50k	50k	50k	50k	50k	50k	50k



To learn more:
na.industrial.panasonic.com/products/electromechanical/switches

To search Switches using the parametric search tool:
<https://na.industrial.panasonic.com/parametric-search>

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