

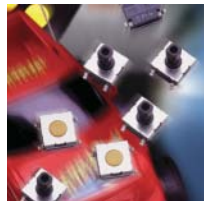
Tactile Switches

Positive click action... Omron's comprehensive range of tactile switches are suitable for keyboards with a membrane overlay or stand alone use with a keypad. These high quality switches provide a positive click action and are available with various forces of operation to suit most applications.

B3F series... Our most comprehensive series of tactile switches includes 6 x 6 and 12 x 12 models with vertical and high-type forces, as well as radial taped types. They are available in surface mount and through hole and the latest addition to the B3F series is a gold plated version providing long term use in severe environments such as corrosive gas.

Sealed switches... Included in the range are IP67 sealed versions which allow immersion cleaning of the PCB and guard against contamination of contacts in dusty environments.

Dome Arrays... The B3DA dome arrays feature a dustproof construction and attach directly to the PCB so no soldering is required. The B3D, a single key type, is also available.



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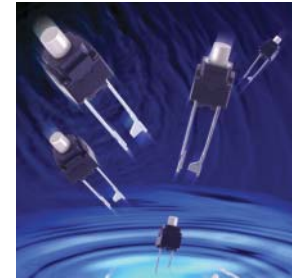
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Ref. Y908-E2-03

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Tactile Switch Selector Guide

Model Number	B3F						B3W			B3FS	B3SN	B3S	B3WN	B3J			B3DA	B3D																																																																																																																																																																																																																																																	
Size	6 x 6mm	6 x 6mm	6 x 6mm	12 x 12mm	12 x 12mm		6 x 6mm	6 x 6mm	12 x 12mm	6 x 6mm	6 x 6mm	6 x 6mm	6 x 6mm	12 x 18mm				4mm diameter	5mm diameter																																																																																																																																																																																																																																																
Series	B3F-1000	B3F-1000-G	B3F-3000	B3F-4000	B3F-5000		B3F-6000	B3W-1000	B3W-4000	B3FS-1000	B3SN-3000	B3S-1000	B3WN-6000	B3J-1000	B3J-2000/3000/4000	B3J-5000/6000/7000	B3DA	B3D-4	B3D-5																																																																																																																																																																																																																																																
Features	Horizontal – Flat and projected	Horizontal – Flat – high reliability types	Vertical – Flat and projected	Horizontal – Flat and projected	Horizontal – Flat and projected – Long life expectancy and high reliability types		Horizontal – Flat and projected – radial taped type	Sealed construction that allows immersion cleaning after soldering. Dust-proof for applications in adverse conditions		Surface mounting – ideal for high density mounting	Surface mounting with sealed construction	Surface mounting for high-density packaging	Double-sealed construction ensures water-tight and dust-tight performance	Hinged tactile switch			Dome arrays with dust-tight construction	Single-key type added to series of B3DA ultra-low profile dome array																																																																																																																																																																																																																																																	
Contact	Silver-plated	Gold-plated	Silver-plated	Silver-plated	Silver-plated	Gold-plated	Silver-plated	Silver-plated	Silver-plated	Silver-plated	Silver-plated	Silver-plated	Silver-plated	Silver-plated	Silver-plated	Silver-plated	Silver-plated	Silver-plated	Stainless steel																																																																																																																																																																																																																																																
Operating Force	0.98N (100gf) 1.47N (150gf) 2.55N (260gf)	1.76N (180gf)	0.98N (100gf) 1.47N (150gf) 2.55N (260gf)	1.27N (130gf) 2.55N (260gf)	1.27N (130gf)	1.27N (130gf)	0.98N (100gf) 1.47N (150gf)	1.57N (160gf) 2.26N (230gf)	1.96N (200gf) 3.43N (350gf)	0.98N (100gf) 1.47N (150gf)	1.57N (160gf)	1.57N (160gf) 2.25N (230gf)	1.96N (200gf)	1.27N (130gf)	1.57N (160gf)	1.57N (160gf)	1.57N (160gf)	1.67N																																																																																																																																																																																																																																																	
Type	<table border="1"> <tr> <td>Flat Type (3.1mm height) – without ground</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Flat Type (3.1mm height) – with ground</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Flat type (4.3mm height – vertical model 3.15mm) – without ground</td> <td>•</td><td>•</td><td></td><td>•</td><td></td><td></td><td>•</td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Flat type (4.3mm height – vertical model 3.15mm) – with ground</td> <td>•</td><td>•</td><td>•</td><td>•</td><td></td><td></td><td>•</td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Flat type (5.0mm height – vertical model 3.85mm) – without ground</td> <td>•</td><td>•</td><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Flat type (5.0mm height – vertical model 3.85mm) – with ground</td> <td>•</td><td>•</td><td>•</td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Flat type and others – without ground</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Flat type and others – with ground</td> <td></td><td>• (0.98N)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Projected type (7.3mm height – vertical model 6.15mm) – without ground</td> <td>•</td><td></td><td></td><td>•</td><td></td><td></td><td>•</td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Projected type (7.3mm height – vertical model 6.15mm) – with ground</td> <td>•</td><td></td><td></td><td>•</td><td></td><td></td><td>•</td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>1 LED without ground</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>2 LEDs with ground</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>•</td> </tr> </table>																			Flat Type (3.1mm height) – without ground																				Flat Type (3.1mm height) – with ground																				Flat type (4.3mm height – vertical model 3.15mm) – without ground	•	•		•			•		•											Flat type (4.3mm height – vertical model 3.15mm) – with ground	•	•	•	•			•		•											Flat type (5.0mm height – vertical model 3.85mm) – without ground	•	•					•													Flat type (5.0mm height – vertical model 3.85mm) – with ground	•	•	•				•													Flat type and others – without ground																				Flat type and others – with ground		• (0.98N)																		Projected type (7.3mm height – vertical model 6.15mm) – without ground	•			•			•		•											Projected type (7.3mm height – vertical model 6.15mm) – with ground	•			•			•		•											1 LED without ground																				2 LEDs with ground																		•	•
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Life Expectancy (operations)	1,000,000 (0.98N) 300,000 (1.47N) 100,000 (2.55N)	300,000	1,000,000 (0.98N) 300,000 (1.47N) 100,000 (2.55N)	3,000,000 (1.27N) 1,000,000 (2.55N)	10,000,000		1,000,000 (1.96N) 300,000 (1.47N)	1,000,000 (1.57N) 3,000,000 (1.96N)	300,000 (2.26N) 1,000,000 (3.43N)	1,000,000 (0.98N) 300,000 (1.47N)	100,000	500,000 (1.57N) 300,000 (2.25N)	100,000	3,000,000			500,000	500,000	1,000,000																																																																																																																																																																																																																																																
Enclosure rating	IP00						IP64			IP00	IP64	IP64	IP67	IP00	IP00			IP00	IP00																																																																																																																																																																																																																																																
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Packaging	<table border="1"> <tr> <td>Bag (standard)</td> <td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td></td><td></td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td> </tr> <tr> <td>Box (standard)</td> <td>1500</td><td>1500</td><td>1500</td><td>500</td><td>500</td><td></td><td></td><td>1,000 (radial)</td><td>1500</td><td>500</td><td>1500</td><td>1500</td><td>1500</td><td>1500</td><td>1500</td><td>1500</td><td>1500</td><td>1500</td><td>1500</td> </tr> <tr> <td>Embossed tape (model number P: suffix)</td> <td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td></td><td></td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td> </tr> </table>																			Bag (standard)	100	100	100	100	100			100	100	100	100	100	100	100	100	100	100	100	100	Box (standard)	1500	1500	1500	500	500			1,000 (radial)	1500	500	1500	1500	1500	1500	1500	1500	1500	1500	1500	Embossed tape (model number P: suffix)	–	–	–	–	–			–	–	–	–	–	–	–	–	–	–	–	–																																																																																																																																																																																				
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Key top for projected type	<table border="1"> <tr> <td>4 x 4mm</td> <td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>9 x 9mm</td> <td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>12 x 12mm</td> <td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>Diameter 9.5mm</td> <td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																			4 x 4mm	•																			9 x 9mm			•																	12 x 12mm				•																Diameter 9.5mm					•																																																																																																																																																																														
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Note: Part pictures & illustrations not to scale.