OMRON

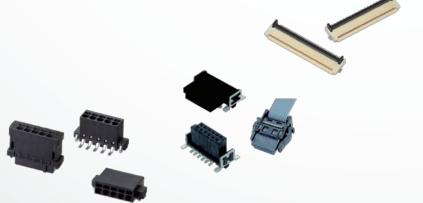


2019

OMRON

Switch & Connector Selection





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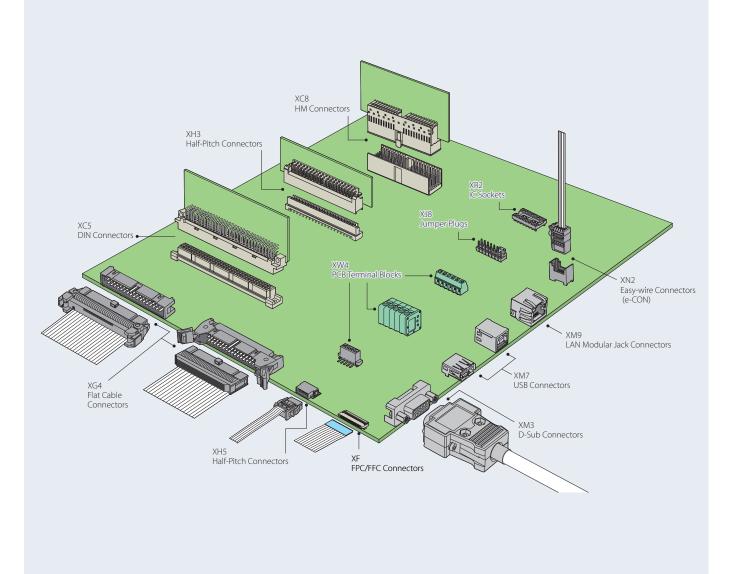
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Connector

OMRON provides PCB Connector Series that meets the MIL, DIN, D-sub, and USB international standards.

We also provide PCB Terminal Block Connectors and other connectors that help increase mounting density and reliability of PCB Let OMRON handle your connector needs. You will find a model that perfectly matches your requirements.

Excellent operability & wide variation suitable to your connection applications



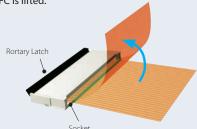
Board to FPC/FFC Connections

FPC/FFC Connectors P.11

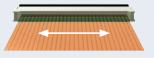
 $Improved\ insertion\ into\ FPC/FFC\ cable\ connectors\ with\ sure\ lock\ feeling\ to\ confirm\ proper\ connection.$

Features of Rotary Backlock Mechanism

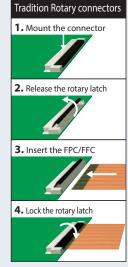
Rotary latch is independent of the FPC/FFC socket. The rotary latch will not release if the FPC/FFC is lifted.

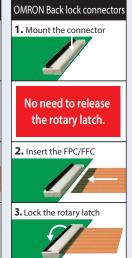


Four-sided housing. Construction prevents FPC/FFC displacement.



Delivered with the rotary latch open. Less work required for FPC/FFC mounting.





Dual contact. There is no need to distinguish between the upper and lower FPC/FFC connection.

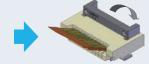


>> XF3M FPC/FFC Connectors

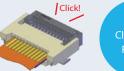
Improved FPC/FFC insertion and lock feeling













- Models available with 0.5-mm or 1.0-mm pitch.
- Models available with dual-sided contacts or upper sided. (Models with upper sided come only with a 0.5-mm pitch.)
- Models available with gold or tin-plated. (Tin-plated is available only with models with dual-sided contacts.)
- Applicable FPC/FFC thickness of 0.3mm.





Small reel 100pcs / reel



Standard reel 1,500pcs / reel



Board to Wire Connections

Flat Cable Connectors 12

OMRON Flat Cable Connectors are compliant with MIL standards and provide high reliability and workability to support a broad range of requirements for board-to-wire connections.

>> Flat Cable Connectors Plug

■ The user-friendly lock is wide enough to use your entire finger, which improves operability when connecting and disconnecting.



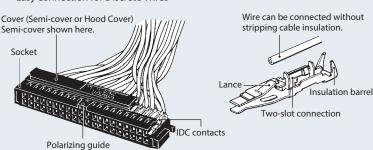


■ Ensures secure and stable connection.



>> XG5M IDC Socket for Discrete Wires

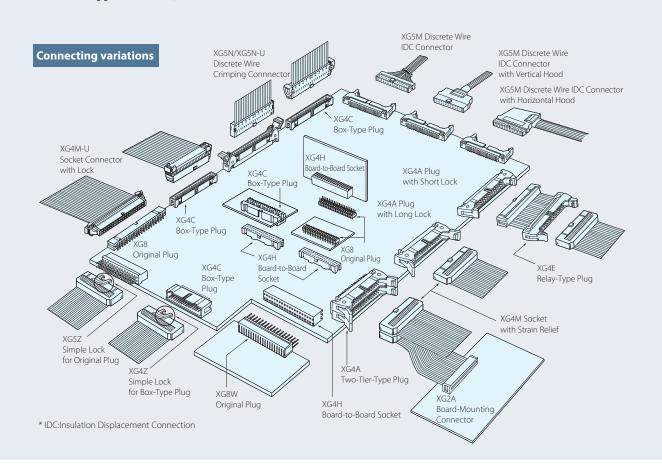
■ Easy connection for Discrete Wires



>> XG5N-U Crimped Socket for Discrete Wires

■ Easy-to-use lock levers





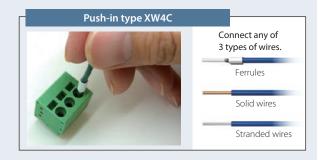
Board to Wire Connections

PCB Terminal Blocks P.13

Ideal for control device interfaces

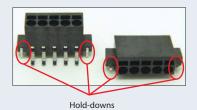
>> XW4A/XW4B/XW4C/XW4E DIP terminal type

- Models available with push-in and screw types.
- Push-in type available with 3.5-mm or 5.0-mm pitch.
- Just insert solid wires or ferrules to complete wiring. (Push-in type)
- Screw type available with 3.81-mm or 5.08-mm pitch.
- Repeated repairs are possible.

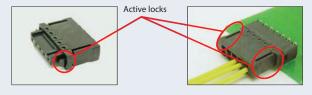


>> XW4H/XW4K/XW4L SMT terminal type

- Push-in type with 2.54-mm pitch.
- Hold-downs are provided on both ends to achieve robust mounting by increasing solder mounting strength.



■ An active lock mechanism prevents the terminal blocks from coming off to provide superior vibration and shock resistance.



Half-Pitch Connectors 1.16

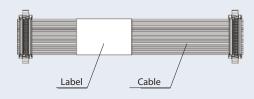
1.27-mm pitch Sockets with Cable

>> XH5H-N Sockets with Cable (Sockets on both ends)

- Less work required by 1.27-mm pitch socket with cable, such as wire assembly, continuity check, etc.
- Cable length available with 100-mm / 200-mm / 300-mm.







■ Please use the following plugs for mating.



Right-angle SMT



Straight SMT

Board to Board Connections

DIN Connectors P.14

High-density, high-reliability connectors compliant with international standards.

>> XC5 DIN-Style Connectors

■ Ideal for automated soldering because the connectors sit on top of the board.





		Standard DIN	DIN style 1	DIN style 2		
PCB Mounting						
eng	D.	Fixed at PCB edge	PCB surface mounting	PCB surface mounting		

>> XC7 Sequence Connectors

- A three-stage sequence is realized.
- Hot-swapping of daughter boards is possible by connecting the power line first and disconnecting the power line last.
- Insertion durability of 5,000 cycles, high reliability achieved by mated length of 4mm.





>> XC4 Medium/High-Current Connectors

 Carry medium/high current (6 to 40A) for board-to-board or board-to-wire applications.



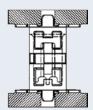
Half-Pitch Connectors

1.27mm pitch connectors for space-saving.

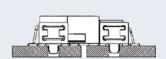
>> XH5-N

- SMT type. Back surfaces of circuit boards can be used for mounting the other components.
- Various BtoB and BtoW connecting solutions.



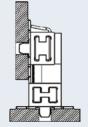


Horizontal connection

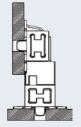




Vertical connection



Right-angle Pins: Socket Straight Pins: Plug



Right-angle Pins: Plug Straight Pins: Socket

>> XH3

■ The stacking height can be flexibly adjusted from 12 to 20mm.





>> XH4A

■ Integrated male/female connectors with the stacking height from 5 to 11mm.

(Surface-mounted connectors can be adjusted from 5 to 9mm.)



External Connections

D-Sub Connectors P.17

Space-saving models also available.

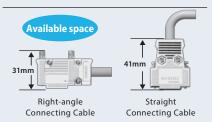
>> XM3B-LS Slim D-Sub Connectors

■ Board mounting area is reduced by 33% (compared with previous models) using depth of 8.4mm.



>> XM2S Hood Covers

■ Space-saving by right-angle connecting cable.



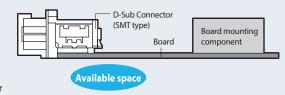
>> XM3K-N/XM3L-N D-Sub SMT Connectors

■ Hold-downs with rib structure provide enough pulling force performance.



■ Through holes are not needed.

Back surfaces of circuit boards can be used for mounting the other components.



Easy-Wire Connectors (e-CON) P.18

Easy-wire connectors with $m{\mathcal{C} ext{-}CON}$ specifications, ideal for connecting sensors.

>> XN2 Easy-wire Connectors (e-CON)

- No special tools required for easy wiring.
- Rewiring (repairing) is possible.
- Each connector accepts any wire size from stranded wire AWG28 (0.08mm²) to AWG20 (0.5mm²). (External sheath diameter: 1.5mm max.)
- With the simple tool Jig(XW2Z-0001), assembly can be completed for 4 wires simultaneously, is available.





No special tools required for easy wiring.



Rewiring (repairing) is



Tool Jig XW2Z-0001

External Connections

USB Connectors P.18

Small interface connectors conforming to USB2.0 standards.

>> XM7 USB Connectors

mini-USB Connectors

- Insertion durability of 5,000 times.
- Lineup includes models with right-angle DIP terminals and SMT terminals.
- Models with SMT terminals are available with reel packaging.





USB Connectors

■ Insertion durability of 1,500 times.









LAN Modular Jack Connectors P.18

Small interface connectors.

>> XM9 LAN Modular Jack Connectors

■ Models available with or without indicators to match application needs.





Other Connections

IC Sockets

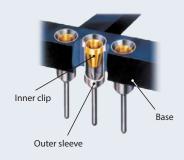


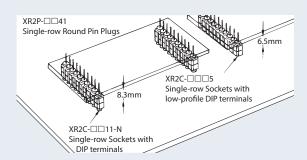
Excellent reliability and can tolerate momentary interruptions in power.

>> XR2 IC Sockets

- Round pins and 4-point (4-finger) contact construction ensure long life and excellent shock and vibration durability.
- One-row connectors allow you to freely adjust the pitch between rows and can be divided into the required number of contacts.
- Low-profile stacking possible in combination with single-row IC sockets (XR2C and XR2P).







Board to FPC/FFC Connections



Classificatio	n			FPC/FFC Co	onnections							
Model				XF3M			XF2M					
Appearance			0.5mm 1.0mm									
Contact pito	:h		m	0.5mm								
Туре				Side-entry			Side-entry					
Туре		Dual contact Au flash	Dual contact Sn	Upper contact Au flash	Dual contact Au flash	Dual contact Sn	Dual contact Au					
No.of contacts *	100 90 80 70 60 50 40	80 60 50 51 53 54 55 57 40 41 42 45 35 36 37 38 30 31 32 33 34 25 26 28 29 20 21 22 23 24	(50) (40)(41)(42)(45) (35)(36)(37)(38) (30)(31) 32 (33)(34) (25)(26)(28)(29) 20 (21)(22)(23)(24)	40 (35)(36)(37)(38) (30)(31)(32)(33)(34) 25 26 (28)(29) 20 (21) 22 (23) 24	30 32 25 26 28 20 22 23 (24)	(30)(32) (25)(26)(28) 20 22 (23)(24)	60 50 54 55 40 42 45 30 32 33 34 35 36 38 20 22 24 26					
	10	15 16 17 18 19 10 11 12 13 14 4 5 6 7 8 9	(15)(16)(17)(18)(19) 10 (11)(12)(13)(14) (4)(5)(6)(7)(8) 9	15 16 17 18 19 10 11 12 13 14 (4)(5) 6 7 8 9	15 16 (17) 18 10 11 12 14 4 5 6 7 8 9	(15)(16)(17) 18 10 (11) 12 (14) (4)(5) 6 (7) 8 9	10 12 14 18					
Rated currer	nt		V 70-70-70-70-70-70-70-70-70-70-70-70-70-7	0.5A AC/DC			0.5A AC/DC					
Rated voltag	je			50V AC/DC			50V AC/DC					
Ambient operating tem	perature			-30 to +85°C			-30 to +85°C					
Applicable FPC/FFC th	ickness			0.3±0.05mm			0.3±0.05mm					
Applicable board thi	ickness						_					
Terminal sha	pe			<u> </u>			<u></u>					
International standards				_			_					

^{*} Consult your OMRON representative for the marketing dates for the numbers of contacts in parentheses in the No. of contacts row.

Board to Wire Connections

Classification				Flat Cable	Connectors		
Classification	<u> </u>		Flat Cable Con	nectors Plug		Flat Cable Con	nectors Sockets
Model		XG4A-□□31/71 □□34/74	XG4A-□□32/72 □□35/75	XG4A-□□33/73 □□36/76	XG4A-□□39/79-A	XG4M	XG4M-U
Appearance		uning the second	nunm.				
Contact pitch	ı	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm
Туре		Plug with long lock	Plug with short lock	Plug without lock	Two-tier plug	Socket	Socket with lock
No.of contacts	100 90 80 70 60 50 40 30 10	60 64 50 40 30 34 20 26 10 14 16	60 64 50 40 30 34 20 26 10 14 16				
Rated current	t	3A	3A	3A	3A	1A	1A
Rated voltage	9	300VAC	300VAC	300VAC	300VAC	250VAC	250VAC
Ambient operating temperature	erature	-55 to +105°C	-55 to +105°C				
Applicable wir		_	_	_	_	1.27mm pitch flat cable incorporating AWG28	1.27mm pitch flat cable incorporating AWG28
Applicable board thic	kness	1.6mm	1.6mm	1.6mm	1.6mm	_	_
Terminal shap	e		TL	JT	<u> </u>	দ	ከ
International stanc	dards	UL	UL	UL	_	UL	_

Classificatio				Flat Cable Connectors		
Classificatio	ר ר	IDC F	Plugs	Box-type Plugs	Board-to-Board Sockets	Flat Cable Connectors for PCBs
Model		XG4E-□□31/71	XG4E-□□32/72	XG4C	XG4H	XG2A
Appearance					Departure of the second	
Contact pitc	h	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm
Туре		Plug with long lock	Plug with short lock	Plug	Socket	Standard Reverse terminal terminal arrangement arrangement
No.of contacts	100 90 80 70 60 50 40 30 10	60 64 50 40 30 34 20 26 10 14 16	60 64 50 40 30 34 20 26 10 14 16	60 64 50 40 30 34 20 26 10 14 16	60 64 50 40 30 34 20 26 10 14 16	60 64 50 40 30 34 20 26 10 14 16
Rated currer		1A	1A	3A	3A	1A
Rated voltag	e	250VAC	250VAC	300VAC	300VAC	250VAC
Ambient operating temp	erature	-55 to +105°C	-55 to +105°C	-55 to +105°C	-55 to +105°C	-55 to +85°C
Applicable wi	res	1.27mm pitch flat cable incorporating AWG28	1.27mm pitch flat cable incorporating AWG28	_	_	1.27mm pitch flat cable incorporating AWG28
Applicable board thi	ckness	_	_	1.6mm	1.6mm	1.6mm
Terminal sha	oe	৸	া		T	T d
International stan	dards	UL	UL	UL	UL	_

Note: Inquire about the compliant standards for individual models.

For the latest No. of contacts information, please visit our website, which is noted on the last page.



Board to Wire Connections



Classification	า	Origina	al Plugs	IDO	Socket for Discrete Wi	res	Crim	ped Socket for Discrete	Wires
Model		XG8A/XG8V	XG8B/XG8W	XG5M	XG5S-□□01	XG5S-□□□2	XG5N	XG5N-U	XG5W-0231/0232
Appearance		\	11						
Contact pitc	h	2.54mm	2.54mm	2.54mm		_	2.54mm	2.54mm	_
Type		One-row plugs	Two-row plugs	Socket	Semi-cover	Hood-cover	Socket	Socket with lock	Crimp contact
No.of contacts	100 90 80 70 60 50 40 30 20	50 36 20 10 12 13 15 16 17 2 3 4 5 6 7 8	100 60 50 40 30 34 20 26 10 14 16	60 64 50 40 30 34 20 26 10 14 16	30 32 20 25 10 13 15 17 5 7 8	60 50 40 30 34 20 26	60 64 50 40 30 34 20 26 10 14 16	60 64 50 40 30 34 20 26 10 14 16	
Rated currer		3A	3A	3A max.		_	3A max.	3A max.	3A max.
Rated voltag		300VAC	300VAC	300VAC			250VAC	250VAC	250VAC
Ambient operating temp	erature	-55 to +105°C	-55 to +105°C	-55 to +85°C	-55 to +85°C	-55 to +85°C	-55 to +105°C	-55 to +105°C	-55 to +105°C
Applicable wi	res	_	_	Discrete wires AWG24,26,28	_	_	Discrete wires AWG22,24,26,28	Discrete wires AWG22,24,26,28	Discrete wires AWG22,24,26,28
Applicable board thi	ckness	1.6mm	1.6mm	_		_	_	_	_
Terminal shap	oe	TL		া			洒	洒	洒
International stan	dards	UL/cUL(XG8V only)	UL/cUL(XG8W only)	UL	_	_	UL/cUL	UL/cUL	_

Classification			PCB Termi	nal Blocks			
Classification	Push-in SMT	Terminal Type	Push-in Type	Screw Type	Connector Te	rminal Blocks	
Model	XW4K	XW4H/XW4L	XW4C	XW4E	XW4A	XW4B	
Appearance	*1	*1	iiiii	*****			
Contact pitch	2.54mm	2.54mm	3.5mm, 5.0mm	3.81mm, 5.08mm	3.81mm, 5.08mm	3.81mm, 5.08mm	
Туре	Plug	Socket Board-mounting	Board-mounting	Board-mounting	Plug	Socket	
100 90 80 70 No.of contacts 60 40 30 20	10 11 12 23456789	10 11 12 23456789	10 23456789	20 10 12 14 16 18 23456789	10 23456789	10 23456789	
Rated current	6A *2	6A *2	10A/17.5A/24A	8A/10A/13.5A/14A	8A/12A/16A	8A/12A/15A	
Rated voltage	160VAC	160VAC	200VAC/300VAC/400VAC	160VAC/250VAC/300VAC	160VAC/250VAC/300VAC	160VAC/250VAC/300VAC	
Ambient operating temperature	-40 to +125°C	-40 to +125℃	-40 to +100°C	-40 to +100°C	-40 to +100°C	-40 to +100°C	
Applicable wires	_	Discrete wires AWG26 to 20	Discrete wires AWG24 to 12	Discrete wires AWG26 to 16	_	Discrete wires AWG28 to 14	
Applicable board thickness	_	_	1.6mm	1.6mm	1.6mm	_	
Terminal shape	4	2	LT	ŢŢ	LT	_	
International standards	UL/cUL	UL/cUL	_	UL/cUL	UL/cUL	UL/cUL	

^{*1.} XW4K and XW4L only.
*2. This is the maximum value for the connector.

If the rated current of the cable is lower than the rated current of the connector, use the rated current of the cable.



Board-to-Board Connections

Classification					DIN Cor	inectors			
Classification	' [DIN-stand	dard Type			DIN-	style	
Model		XC5A/XC5E-	XC5B/XC5F-	XC5C/XC5G-	XC5D/XC5H-	XC5A-□□□□-1	XC5B-□□□□-0/3	XC5C-	XC5D-
Model						XC5E-□□□□-2/3	XC5F-□□□□-2	1	□□□□-0
Appearance					The state of the s	manamanana			nonanananananan
Contact pitc	h	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm
Туре		Double-row plugs	Double-row sockets	Triple-row plugs	Triple-row sockets	Double-row plugs	Double-row sockets	Triple-row plugs	Triple-row sockets
	100	100	100			100	100		
	90			96 *	96 *			96	96
	80								
	70								
	60	64 *	64 *	64 *	64 *	64	64	64	64
No.of contacts	50	50	50			50	50		
	40	44	44	48 *	48 *	44	44		
	30	32 *	32 *	32 *	32 *	30 32	30 32		
	20	20	20			20 24	20 24		
	10					10 14 16	10 14 16		
	10								
Rated curren	-	2A	2A	2A	2A	2A	2A	2A	2A
Rated voltag	e	300VAC	300VAC	300VAC	300VAC	300VAC	300VAC	300VAC	300VAC
Ambient operating temp	erature	-55 to +125℃	-55 to +125°C	-55 to +125°C	-55 to +125°C	-55 to +125°C	-55 to +125°C	-55 to +125°C	-55 to +125°C
Applicable wires		_	_	_	_	_		_	_
Applicable board this	kness	1.6mm	1.6mm	1.6mm	1.6mm	1.6mm	1.6mm	1.6mm	1.6mm
Terminal shap	oe	TTT	TIL	TIL	TIL	TL	IL	Ţ	T
International stan	dards	UL/CSA	UL/CSA	UL/CSA	UL/CSA	UL/CSA	UL/CSA	UL/CSA	UL/CSA

^{*} DIN 41612 and IEC 603-2 compliant.

	I						
Classification	Stacking-connect Type		Fine 6t Tue	DIN Connectors be (Press-fit)		Ouadruple rour	128-contact Type
Model	XC5K	XC5E-	XC5B-	XC5G-	XC5D-	Quadruple-row, XC5M	XC5N
Appearance				000P-1100	P-11		THE COLUMN THE PARTY OF THE PAR
Contact pitch	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm
Туре	Double-row plugs	Double-row plugs	Double-row sockets	Triple-row plugs	Triple-row sockets	Quadruple-row plugs	Quadruple-row sockets
100 90 80 70 No.of contacts 60 50 40 30 20	32 20 16	64 32	64 32	96 96 64 48	96 64 48	128	128
Rated current	2A	2A	2A	2A	2A	2A	2A
Rated voltage	300VAC	300VAC	300VAC	300VAC	300VAC	300VAC	300VAC
Ambient operating temperature	-55 to +125°C	-55 to +125℃	-55 to +125℃	-55 to +125°C	-55 to +125℃	-55 to +125℃	-55 to +125°C
Applicable wires	_	_	_	_	_	_	_
Applicable board thickness	1.6mm	1.6 to 3.2mm	1.6 to 3.2mm	1.6 to 3.2mm	1.6 to 3.2mm	1.6mm	1.6mm
Terminal shape	T	\$ \$	\$ \$	रु रु	\$ \$	Ţ	T
International standards	_	UL/CSA	UL/CSA	UL/CSA	UL/CSA	_	_

Note: Inquire about the compliant standards for individual models.

For the latest No. of contacts information, please visit our website, which is noted on the last page.



Board-to-Board Connections

Classification	า			nnectors	
Classification			Sequer	се Туре	
Model		XC7A	ХС7В	XC7C	XC7D
Appearance					and the second
Contact pitcl	h	2.54mm	2.54mm	2.54mm	2.54mm
Туре		Double-row plugs	Double-row sockets	Triple-row plugs	Triple-row sockets
	100	100 90	100 90	96	96
	90		,	, , , , , , , , , , , , , , , , , , , ,	
	80				
	70	64	64		
No.of contacts	60 50				
	40				
	30				
	20				
	10				
Rated curren	ıt	2A	2A	2A	2A
Rated voltag	e	300VAC	300VAC	300VAC	300VAC
Ambient operating temp	erature	-55 to +125℃	-55 to +125℃	-55 to +125℃	-55 to +125℃
Applicable wires			_	_	_
Applicable board this	ckness	1.6mm	1.6mm	1.6mm	1.6mm
Terminal shap	oe	J	Т	J	T
International stand	dards	_	_	_	_

							DIN Connectors					
Classification	ŀ					Medi	um/High-current					
Model		XC4A	XC4B	XC4E	XC4F	XC4G	XC4H	XC4K	XC4L	XC4M	ХС	4W
Appearance		P P P P P P P P P P P P P P P P P P P										
Contact pitch		5.08	mm	5.08	mm	5.08	mm	5.08	Bmm	2.54mm	_	_
Туре		Plug	Socket	Plug	Socket	Plug	Socket	Plug	Socket	Plug	High-current contacts for XC4M	Coaxial contacts for XC4M
No.of contacts	90 80 70 60 50 40 30 20	4			2	3			5	78*1 60*1 42*1 246*2		
Rated current		6		6		6			5A	2A	10A/20A/40A	_
Rated voltage	-	380		500			VAC		IVAC	300VAC	300VAC	
Ambient operating temper	ature	-55 to -	+125℃	-55 to	+125℃	-55 to	+125℃	-55 to	+125℃	-55 to +125°C	-55 to +125°C	-55 to +125°C
Applicable wire		_	_	-	_	-	_	-		_	φ 1.7mm/2.8mm /4.8mm	φ 3.2mm
Applicable board thick	ness	1.6r	mm	1.6	mm	1.6	mm	1.6	mm	1.6mm	1.6mm	1.6mm
Terminal shape		ٔ ل	TT	TL		71		(Faston tab terminals #250)		J	JT	aľ
International standa	ırds	UL/	cUL	UL/	cUL	UL/	cUL	UL	cUL	UL/cUL	UL/cUL	UL/cUL

^{*1.} The numbers shown are the number of signal circuit contacts.
*2. The numbers shown are the slots for XC4W.



Board-to-Board Connections

Classification				Half-pitch Connectors		
Classification	י ו	SMT	Туре	Cable with Connectors on Both Ends	Board-to-Bo	ard Connectors
Model		XH5A-N/XH5E-N	XH5F-N/XH5B-N	XH5H-N	ХНЗА	ХНЗВ
Appearance						THAT THE THE THE THE THE THE THE THE THE TH
Contact pitcl	h	1.27mm	1.27mm	1.27mm	1.27mm	1.27mm
Type		Plug	Socket	Socket	Plug	Socket
	100				100 120	100 120
	90	80	80	80	80	80
	80					
	70	68	68	68	60 68	60 68
No.of contacts	60 50	50	50	50	50	50
	40				40	40
	30				30	30
	20	26	26	26	20	20
	10	12	12	12		
Rated curren	_	1A 100VAC	1A	1A	0.5A	0.5A 125VAC
Rated voltag	$\overline{}$	-55 to +105°C	100VAC -55 to +105°C	100VAC -55 to +105°C	125VAC -55 to +105°C	125VAC -55 to +105°C
Ambient operating temp	erature	-55 t0 + 105 C	-55 (0 + 105 (-55 (U + 105 C	-55 (U +1U5 C	-55 (0 + 105 C
Applicable wii	es	_	_	_	_	_
Applicable board this	kness	_	_	_	1.6mm	1.6mm
Terminal shap	oe	4	<u> </u>	_	T	
International stand	dards	UL/cUL	UL/cUL	_	UL	UL

Classification			Half-pitch Connectors		IIIAG		
Classification	ו	Low-profile Stacking Connectors	Board-to-Boa	rd Connectors	- нм Со	nnectors	
Model		XH4A	XH2A	XH2B	XC8A/XC8C/ XC8E/XC8K	XC8B/XC8D/ XC8F/XC8L	
Appearance			Manager	THE PARTY OF THE P			
Contact pitch	h	1.27mm	1.27mm	1.27mm	2.0mm	2.0mm	
Туре		Plug/Socket Integrated	Plug	Socket	Plug	Socket	
	100	100	100	100	110 125	110 125	
	90		90	90	95	95	
	80	80	80	80			
	70	60	60 68	60 68	-		
No.of contacts	60	50	50	50	55	55	
	50	40	40	40			
	40		30	30			
	30 20		20	20			
	10						
Rated curren	_	0.5A	0.5A	0.5A	1A	1A	
Rated voltage		125VAC	125VAC	125VAC	500VAC	500VAC	
Ambient operating temp	erature	-55 to +105°C	-55 to +105°C	-55 to +105°C	-55 to +125°C	-55 to +125℃	
Applicable wir	es	_	_	_	_	_	
Applicable board thic	kness	1.6mm	1.6mm	1.6mm	1.6mm to 6.0mm	1.6mm to 3.4mm	
Terminal shap	oe _	T	TL	TL	ℽ	ℽ	
International stand	dards	UL	UL	UL	UL/cUL	UL/cUL	

Note: Inquire about the compliant standards for individual models.

For the latest No. of contacts information, please visit our website, which is noted on the last page.



External Connections

Classification					D-Sub Connectors			
Classification	' [D-Sub C	onnector		Hood Cover		D-Sub C	onnector
Model		XM3A/XM3C	XM3B/XM3D/XM3F	XM2S-□□1□	XM2S-□□2□	XM2S-E	XM2C-L/XM2E-L	XM2F-L/XM3B-L
Appearance	:			7	B			
Contact pitcl	h	2.74mm, 2.76mm	2.74mm, 2.76mm	_	_	_	2.77mm	2.77mm
Туре		Plug	Socket	Straight-angle connection	Right-angle connection	Straight-angle connection with ESD protection	Plug	Socket
No.of contacts	100 90 80 70 60 50 40 30 20 10	37 25 15	37 25 15	37 25 15	25	9	25 15 9	25 15 9
Rated curren	t	3A/5A	5A	_	_	_	3A	3A
Rated voltag	e	300VAC	300VAC	_	_	_	300VAC	300VAC
Ambient operating temp	erature	-55 to +105℃	-55 to +105°C	-25 to +85°C	-25 to +85°C	-25 to +85°C	-25 to +105°C	-25 to +105°C
Applicable win	es	AWG22 max.	AWG22 max.	_	_	_	_	_
Applicable board this	kness	1.6mm	1.6mm	_	_	_	1.6mm	1.6mm
Terminal shap	oe	J A		_	_	_	T	
International stand	dards	UL/cUL	UL/cUL	_	_	_	UL	UL

			D-Sub Co	onnectors		
Classification	D-sub SMT	Connectors		-sub Connectors	Slim D-sub	Connectors
Model	XM3K-N	XM3L-N	XM4K	XM4L	XM3C-LS	XM3B-LS
Appearance						
Contact pitch	2.76mm	2.76mm	2.29mm	2.29mm	2.74mm	2.74mm
Туре	Plug	Socket	Plug	Socket	Plug	Socket
100 90 80 70 No.of contacts 60 40 30 20	25	25	15	15	9	9
Rated current	3A	3A	3A	3A	3A	3A
Rated voltage	300VAC	300VAC	300VAC	300VAC	300VAC	300VAC
Ambient operating temperature	-55 to +105°C	-55 to +105°C	-25 to +105°C	-25 to +105°C	-25 to +105°C	-25 to +105°C
Applicable wires	_	_	_	_	_	_
Applicable board thickness	-	_	1.6mm	1.6mm	1.0mm,1.6mm	1.0mm,1.6mm
Terminal shape	ك	ك	J	T_T	J	J
International standards	UL/cUL	UL/cUL	UL	UL		



External Connections

Classification	Easy-wire Connectors	for Industrial Components	USB Con	nectors	LAN Modular Jack Connectors
Model	XN2A	XN2B/XN2D	XM7A/XM7B	XM7D	XM9B
Appearance					
Contact pitch	2.0mm	2.0mm	2.0mm,2.5mm	0.8mm	2.04mm
Туре	Plug	Socket	USB2.0	USB2.0 mini-USB	Without indicator/ With indicator
100 - 90 - 80 - 70 - 60 - 60 - 60 - 60 - 60 - 60 - 6	34568	34568		5	8
Rated current	3A max.	3A max.	1A	1A	1.5A
Rated voltage	32VDC	32VDC	30VAC	30VAC	250VAC
Ambient operating temperature	-30 to +75°C	-30 to +75°C	-40 to +60°C	0 to +50°C	-45 to +80°C
Applicable wires	Discrete wires AWG28 to 20	Discrete wires AWG28 to 20	_		_
Applicable board thickness		1.6mm	1.6mm	1.0mm	1.6mm
Terminal shape	_	Τ	T	حدل	
International standards	UL/cUL	UL/cUL	_	_	_

Note: Inquire about the compliant standards for individual models.

For the latest No. of contacts information, please visit our website, which is noted on the last page.

Other Connections

Classification			Jumper Plu	gs/Sockets	
Model		XG8S/XJ8B	XG8T/XJ8C	XJ8D	XJ8A
Appearance					
Contact pitch	1	2.54mm	2.54mm	2.54mm	2.54mm
Туре		Single-row plugs	Double-row plugs	Triple-row plugs	Jumper socket
No.of contacts	100 90 80 70 60 50 40 30 20	12 14 16 18 2 3 4 5 6 7 8 9	20 10 12 14 16 18 2 4 6 8	21 24 12 15 18 36 9	2
Rated current	_	2A	2A	2A	2A
Rated voltage	$\overline{}$	300VAC	300VAC	300VAC	300VAC
Ambient operating tempe	erature	-55 to +105°C	-55 to +105°C	-55 to +105°C	-55 to +105°C
Applicable wire	es	_	_	_	_
Applicable board thic	kness	1.6mm	1.6mm	1.6mm	1.6mm
Terminal shap	e	T	T	T	T
International stand	lards	UL(XJ8B only)	UL(XJ8C only)	UL	UL

Classificatio	n			IC So	ockets		
Model		XR2A	XR2B	XR2T	XR2C	XR2P	XR3G
Appearance	•			THE PROPERTY OF THE PARTY OF TH			
Contact pito	h	2.54mm	2.54mm	2.54mm	2.54mm	2.54mm	1.778mm
Туре		Open-frame sockets	Closed-frame sockets	Open-frame sockets with seal Tape	Single-row sockets	Round Pin plugs	Shrink IC sockets
No.of contacts	100 90 80 70 60 50 40 30 20	64 50 40 42 48 32 20 22 24 28 14 16 18 8	40 32 24 28 16	40 48 32 20 22 24 28 14 16 18 8	32 20 10 16	32 20 10 16	64 52 42 32 28
Rated currer	nt	1A	1A	1A	1A	1A	1A
Rated voltag	je	300VAC	300VAC	300VAC	300VAC	300VAC	150VAC
Ambient operating tem	perature	-55 to +125℃	-55 to +125°C	-55 to +125℃	-55 to +125°C	-55 to +125°C	-55 to +125℃
Applicable wi	res						
Applicable board thi	ckness	1.6mm	1.6mm	1.6mm	1.6mm	1.6mm	1.6mm
Terminal sha	pe	TT	T	T	TT	T	T
International stan	dards	UL	UL	UL	UL	_	_



Switch

Miniature switches to be installed in devices and mounted on the PCB.

Enable to select suitable switches from wide variations according to the applications and shapes.

Detection Switches Used to detect the positions of objects. >>> Basic Switches >> Door Switches/Power Switches >> Miniature Detection Switches ■ Miniature door ■ Through hole mount types ■ Miniature types(V-size) ■ Subminiature types(S-size) ■ Door interlock ■ Surface mount types ■ Ultra subminiature types(J-size) ■ Sealed types ■ Common accessories Manual Switches Used to allow workers to make inputs to equipment. >> Tactile Switches >> Rocker Switches >> Pushbutton Switches/Indicators ■ Through-hole mounting types ■ Miniature types ■ Round types ■ Surface mounting types ■ Illuminated types ■ Square types ■ Illuminated types ■ Reset function types ■ Common accessories ■ Sealed types **Setting Switches** Used to set up the operation of equipment. >> DIP Switches >> Thumbwheel Switches ■ Slide types ■ Piano types ■ Push operation types ■ Rotary operation types ■ Rotary types P.50

Classifica	tion					Miniature Basic	Switches (V-size)				
Model				V					D3V		
Appeara	nce		10.3 15	27.8 - 27	7		10.3				
		V-21	V-16	V-15	V-11	V-10	D3V-21G	D3V-16	D3V-11	D3V-6	D3V-01
Features		9	standard miniatur	e basic switch of	fers high reliability	/.	Miniature basic switch with wide range variation from 0.1A to 21A.\ compatible mounting.			21A. V series	
Contact f	orm		SPDT	r / SPST-NC / SPS	T-NO			SPD'	T / SPST-NC / SPST	T-NO	
	Specification			Rivet		,		Ri	vet		Crossbar
Contact	Material		Silver alloy		Sil	ver		Silve	r alloy		Gold alloy
	Gap		1mm 0.5mm 1.0mm/0.5mm					1.0mm			
Ratings (resistive	load)	21A 250VAC 0.6A 125VDC 0.3A 250VDC	16A 250VAC 0.6A 125VDC 0.3A 250VDC	15A 250VAC 0.6A 125VDC 0.3A 250VDC	11A 250VAC 0.6A 125VDC 0.3A 250VDC	10A 250VAC 0.6A 125VDC 0.3A 250VDC	21A 250VAC 0.6A 125VDC 0.3A 250VDC	16A 250VAC 0.6A 125VDC 0.3A 250VDC	11A 250VAC 0.6A 125VDC 0.3A 250VDC	6A 250VAC 0.4A 125VDC 0.3A 250VDC	0.1A 125VAC 0.1A 30VDC
Inrush current	NC NO	50A max.	40A max.	36A max.	24A	max.	50A max.	40A max.	24A max.	15A max.	_
Minimum a	pplicable load alues)			160mA at 5VDC				160mA	at 5VDC	I	1mA at 5VDC
Contact r (initial va	esistance lues)			15mΩ max.			50mΩ max.		30mΩ max.		0.49N:50mΩmax. 0.25N:100mΩmax.
Operatin (see note	_	3.92N max.	1.96N 3.92N		0.98N max.	0.98N max. 1.96N max.	1.23N max.	1.96N max.	0.98N max. 1.96N max.	0.49N max. 0.98N max.	0.49N max.
Durability	Mechanical		50,00	00,000 operations	min.			10,00	00,000 operations	min.	
(see note1)	Electrical	100	1,000 operations n	nin.	300,000 оре	erations min.	50,000 operations min.	100,000 operations min.	200,000 operations min.	500,000 op	erations min.
Degree of	protection			IEC IP40				1	IEC IP40		
Ambient opera	ting temperature	-25 to +80°C	-25 t	o +105°C (Heat r	esistive:-25 to +15	50°C)	-25 to +85℃		-25 to +105°C		-25 to +85°C
Ambient ope	rating humidity		85%RF	H max. (for +5 to	+35°C)		85%RH max. (for +5 to +35°C)				
Actuator	5		_ _ _	Pin plunger Hinge lever Simulated rol lever Whinge roller lever	ler		Pin plunger Hinge lever Simulated roller lever Hinge roller lever				
Terminals	Terminals	Quick-connect (#250)		Quick-con	lder nect (#187) nect (#250)		Solder Quick-connect (#187) Quick-connect (#250)				
Approved	UL			•					•		
Approved standard	CSA			•					•		
(see note2)	EN/IEC	○ (VDE approval)	○ (VDE approval)	_	O (VDE approval)	_			O (VDE approval))	

Note 1: For pin plunger type

Note 2 • Approved model with standard marking on the switch

O: Approved model. However no-approved types are included. They are without standard marking on the switch.

Consult your OMRON sales representative.

Classifica	ntion				Miniature B	asic Switches (V-size)		
Model		V	X	D2	MV	D2RV	D2	MC
Appeara	nce	10.3		10.3 15.9 Days of 15.9 Days of	IC CONTROL OF THE PARTY OF THE	10.3 — 27.8 15.9 Day	17.5	
		VX-5	VX-01	D2MV-1	D2MV-01		D2MC-5	D2MC-01
Features		Miniature basic low operating f contact reliabili	orce and high		pasic switch with erating force.	High reliability for micro load applications, even in adverse atmosphere.	/	ch with low torque ation.
Contact 1	form	SPDT / SPST-1	NC / SPST-NO	SP	DT	SPST-NO	SP	DT
	Specification	Rivet	Crossbar	Needle	Crossbar		Rivet	Crossbar
Contact	Material	Silver alloy	Gold alloy	Silver	Gold alloy	Reed switches	Silver alloy	Gold alloy
	Gap	0.5r	nm	0.51	mm		0.51	mm
Ratings (resistive	load)	5A 250VAC	0.1A 125VAC 0.1A 30VDC	1A 125VAC 1A 30VDC	0.1A 125VAC 0.1A 30VDC	Switching voltage 100V DC max. Switching current 0.25ADC max. Contact capacity 10WDC max.	5A 125VAC 5A 250VAC	0.5A 125VAC 0.5A 30VDC
Inrush current	NC NO	15A max.	_	1A max.	0.1A max.	_	15A max. 7A max.	0.5A max.
Minimum a	pplicable load /alues)	160mA at 5VDC	1mA at 5VDC	30mA at 5VDC	1mA at 5VDC	0.1mA at 5VDC	160mA at 5VDC	1mA at 5VDC
Contact (initial va	resistance Ilues)	$30 \text{m}\Omega$ max.	50mΩ max.	30mΩ max.	50mΩ max.	150mΩ max.	20mΩ max.	100mΩ max.
Operatin (see note	_	0.25N max. 0.49N max.		0.10N max. 0.25N max. 0.49N max.		0.25N max. 0.49N max. 0.98N max.	0.75mN	m max. ·m max. ·m max.
Durability	Mechanical	50,000,000 operations min.	10,000,000 operations min.	10,000,000 operations min.		10,000,000 operations min. 10,000,000		perations min.
(see note1)	Electrical	500,000 operations min.	1,000,000 operations min.	500,000 operations min.	1,000,000 operations min.	3,000,000 operations min.	100,000 оре	erations min.
Degree of	f protection	IEC	IP40	IEC	IP40	IEC IP40	IEC	IP40
Ambient opera	ating temperature	-25 to -	+105°C	-25 to	+80°C	-10 to +60°C	-25 to	+80°C
Ambient ope	rating humidity	85%RH max. (fo	or +5 to +35°C)	85%RH max. (f	or +5 to +35°C)	85%RH max. (for +5 to +35°C)	85%RH max. (fe	or +5 to +35°C)
Actuators		Hir Sim leve	nulated roller	Hir Sin lev	nge roller	Pin plunger Hinge lever Simulated roller lever Hinge roller lever	® R	otary action
Terminal	S	Sol Quick-coni		Sol	der	Solder	Quick-con	nect (#205)
Approved	UL			•		_		
standard	CSA		•	•		_	•	
(see note2)	EN/IEC	• (VDE a	approval)	_	_	_		
Note 1: For pin		• (VDL)	арріочаі)		-			

Note 1: For pin plunger type

Note 2 • Approved model with standard marking on the switch

O: Approved model. However no-approved types are included. They are without standard marking on the switch.

Consult your OMRON sales representative.

Classifica	ation			Subminiature Basic S	Switches (S-size)		
Model		D3M		SS		S:	S-P
Appeara	nce	29.2		19.8	6.4		
			SS-10	SS-5	SS-01	SS-3P	SS-01P
Features		Quick-connect terminals simplify wiring.	S-size standard bas	sic switch offers high reliabil	lity and easy-to-use.	SS series compo One-piece terminals cor	atible mounting. Instruction to keep out flux.
Contact	form	SPST-NC / SPST-NO		SPDT / SPST-NC / SPST-NO)	SF	PDT
	Specification	Crossbar	Riv	vet	Crossbar	Rivet	Crossbar
Contact	Material	Gold alloy	Silver alloy	Silver	Gold alloy	Silver	Gold alloy
	Gap	0.5mm	0.51	mm	0.25mm	0.5	mm
Ratings (resistive	load)	0.1A 30VDC	10.1A 250VAC	5A 125VAC 3A 250VAC	0.1A 125VAC 0.1A 30VDC	3A 125VAC 3A 30VDC	0.1A 125VAC 0.1A 30VDC
Inrush	NC	1A max.	20A	max.	1 A max.	9A max.	
current	NO	TA IIIdx.	15A max.	10A max.	TA IIIax.	9A IIIdx.	
Minimum a	pplicable load values)	1mA at 5VDC	160mA	at 5VDC	1mA at 5VDC	160mA at 5VDC	1mA at 5VDC
Contact (initial va	resistance alues)	100m Ω max.	OF 1.47N : 30mΩ max.	OF 1.47N : 30mΩ max. OF 0.49N : 50mΩ max.	OF 1.47N : $50m\Omega$ max. OF 0.49N : $100m\Omega$ max. OF 0.25N : $150m\Omega$ max.	50mΩ max.	100mΩ max.
Operatin	_	1.50N max.	1.47N max.	0.49N max. 1.47N max.	0.25N max. 0.49N max. 1.47N max.	1.5N	max.
	Mechanical	500,000 operations min.	10,000,000 operations min.	30,000,000 o	perations min.	1,000,000 operations min.	
Durability (see note1)	Electrical	200,000 operations min.	50,000 operations min.	200,000 op	erations min.	125VAC 70,000 operations min. 30VDC: 100,000 operations min.	200,000 operations min.
Degree o	f protection	IEC IP40		IEC IP40		IEC	IP40
Ambient oper	ating temperature	-25 to +85°C		-25 to +85°C		-25 to	+85°C
Ambient ope	erating humidity	80%RH max. (for +5 to +35°C)	3	35%RH max. (for +5 to +35°0	C)	85%RH max. (f	or +5 to +35°C)
Actuators		Pin plunger Hinge lever Simulated roller lever Hinge roller lever		Pin plunger Hinge lever Simulated roller lever Hinge roller lever			in plunger linge lever imulated oller lever
Terminal	S	The terminals connect to JST's XA Connector		Solder Quick-connect (#110) PCB			lder nect (#110) CB
Approved standard	UL CSA	•		•			•
(see note2)	EN/IEC	• (TUV approval)	O (VDE	approval)	_	● (VDE	approval)

Note 1: For pin plunger type

Note 2 •: Approved model with standard marking on the switch

O: Approved model. However no-approved types are included. They are without standard marking on the switch.

Consult your OMRON sales representative.

Classifica	tion	Subminiat	ture Basic Switch	nes (S-size)			Ultra Submii	niature Basic Swi	tches (J-size)		
Model			D2S				D2F			D2	FD
Appeara	nce	6.4) 9.7 <u>†</u>	19.8 19.8	7 9.0 ±		5	7 12.7 - 12.7 - 6.5 D2F - 6.5	7		6 12.8	6.5
				ı	D2F-5	D	2F	D2l	F-01		
		D2S-10	D2S-5	D2S-01	(OF 1.47N)	(OF 1.47N)	(OF 0.74N)	(OF 1.47N)	(OF 0.74N)	D2FD-2	D2FD-01
Features		S-size basic sw	ritch with superb	flux resistance.	U		e basic switches w t a wide range of a		ns,		basic switch is to IP6X.
Contact i	orm		SPDT		SPDT		SP	DT			
	Specification	Riv	/et	Crossbar			Crossbar			Cros	sbar
Contact	Material	Silver	alloy	Gold alloy		Silver alloy		Gold	alloy	Silver alloy	Gold alloy
	Gap		0.5mm				0.25mm			0.25	mm
Ratings (resistive	load)	10.1A 250VAC	5A 125VAC 3A 250VAC	0.1A 125VAC 0.1A 30VDC	5A 250VAC	3A 125VAC 2A 30VDC	1A 125VAC 0.5A 30VDC	0.1A	30VDC	2A 125VAC 2A 30VDC	0.1A 125VAC 0.1A 30VDC
Inrush current	NC NO	20A 15A max.		1A max.	_	_	_	_	_	_	_
	pplicable load	15A max.	10A max. at 5VDC	1mA at 5VDC		100mA at 5VDC		1mA a	t 5VDC	100mA at 5VDC	1mA at 5VDC
	resistance	OF 1.47N : 30mΩ max.	OF 1.47N : 30mΩ max. OF 0.49N : 50mΩ max.	OF 1.47N : 50mΩ max. OF 0.49N : 100mΩ max.	30mΩ) max.	50mΩ max.	100m	Ω max	30mΩ max.	100mΩ max.
Operatin	-	1.47N max.		l max. I max.	1.47N	l max.	0.74N max.	1.47N max.	0.74N max.	2.0N	max.
Durability	Mechanical	10,000,000 operations min.	30,000,000 op	perations min.		1,00	00,000 operations	min.		300,000 ope	erations min.
(see note1)	Electrical	50,000 operations min.	200,000 ope	erations min.	10,000 operations min.	30,000 ope	rations min.	100,000 ope	erations min.	30,000 operations min.	100,000 operations min.
Degree of	protection		IEC IP40				IEC IP40			IEC	IP6X
Ambient opera	ting temperature		-25 to +85°C				-40 to +85°C			-20 to	+70°C
Ambient ope	rating humidity	85%RI	H max. (for +5 to -	+35°C)		85%R	H max. (for +5 to -	+35°C)			H max. :o +35°C)
Actuator	s	Pin plunger Hinge lever Simulated roller lever Hinge roller lever Simulated roller lever (R1.3) Simulated roller lever (R2.5) Hinge roller lever		Pin plunger Hinge lever Simulated roller lever							
Terminal	s	<u> </u>	Self-clinching PCE Solder	3		(straight, right	PCB t angle, left angle, Solder	self-clinching)		Self-clinc Sol	hing PCB der
Approved	UL		0		_	(•	•		_	
standard (see note2)	CSA		0		_	(•	•	•	-	
(JCC HOLEZ)	EN/IEC						_			_	_

Classifica	tion		Ultra Subminiature Basi	ic Switches (J-size)		
Model		D2FS	J	D2M	Q	
Appearai	nce	5.8	5.1 37 8.9 12.7	10 to	6,5 7	
Features		Suitable for low frequency long life use tools.	Ultra subminiature models capable of 7A load.	Snap action switch	with thin 2.7mm.	
Contact f	orm	SPST-NO	SPDT	SPD	Т	
	Specification	Crossbar	Rivet	Rive	t	
Contact	Material	Silver	Silver alloy+ Gold plated	Silver plated	Gold plated	
	Gap	0.4mm	0.35mm	0.15n	nm	
Ratings (resistive	load)	0.1A 6VDC	7A 125VAC 7A 250VAC	0.5A 30VDC	50mA 30VDC	
Inrush current	NC NO	_	_	_	_	
Minimum a (reference v	oplicable load alues)	1mA at 5VDC	1mA at 5VDC	50mA at 5VDC	5mA at 5VDC	
Contact r (initial va	resistance lues)	100mΩ max.	15mΩ max.	100mΩ	max.	
Operatin (see note	_	0.85N max.	1.37N max.	1.18N max.		
Durability	Mechanical	100,000 operations min.	10,000,000 operations min.	30,000 opera	tions min.	
(see note1)	Electrical	10,000 operations min.	50,000 operations min.	10,000 opera	tions min.	
Degree of	protection	IEC IP40	IEC IP40	IEC IP	40	
Ambient opera	ting temperature	-20 to +70°C	-10 to +80°C	-15 to +	70°C	
Ambient ope	rating humidity	85%RH max. (for +5 to +35°C)	85%RH max. (for +5 to +35°C)	35 to 85%RH (for	+5 to +35°C)	
Actuators		Pin plunger Hinge lever	Pin plunger Hinge lever Hinge roller lever		plunger ge lever f lever	
Terminals	5	PCB (straight, right angle, left angle) Self-clinching PCB	Solder	PCB (straight, right angle, left angle)		
Approved	UL	_	0	_		
standard	CSA	_	0	_		
(see note2)	EN/IEC	_	_			

Note 1: For pin plunger type

Note 2 : • Approved model with standard marking on the switch

O: Approved model. However no-approved types are included. They are without standard marking on the switch.

Consult your OMRON sales representative.

Classifica	ition			Sealed Bas	sic Switches			
Model		D2'	VW	D2	2SW	D25	SW-P	
Appeara	nce	15.9		6.4 D25W	19.8 3-3+ 10.1	19.8		
		D2VW-5	D2VW-01	D2SW-3	D2SW-01	D2SW-P2	D2SW-P01	
Features		Sealed min switch confo			niniature basic forms to IP67.		n simplified construction, with SS and D2SW series.	
Contact i	form	SPDT / SPST-1	NC / SPST-NO	SPDT / SPST-	NC / SPST-NO	SPDT / SPST-	NC / SPST-NO	
	Specification	Rivet	Crossbar	Rivet	Crossbar	Rivet	Crossbar	
Contact	Material	Silver alloy	Gold alloy	Silver	Gold alloy	Silver	Gold alloy	
	Gap	0.5r	mm	0.5	mm	0.5	mm	
Ratings (resistive	load)	5A 125VAC 5A 250VAC 5A 30VDC	0.1A 125VAC 0.1A 30VDC	3A 125VAC 2A 250VAC 3A 30VDC	0.1A 125VAC 0.1A 30VDC	2A 250VAC 2A 30VDC	0.1A 125VAC 0.1A 30VDC	
Inrush current	NC NO	15A max.	_	20A max.	1A max.	6A max.	_	
Minimum a	pplicable load values)	160mA at 5VDC	1mA at 5VDC	160mA at 5VDC	1mA at 5VDC	160mA at 5VDC	1mA at 5VDC	
Contact (initial va	resistance Ilues)	Terminal mode Molded lead wire 30 Molded lead wire 1,0	00mm : 100mΩ max.	Terminal model: $30 \text{m}\Omega$ max. Molded lead wire : $50 \text{m}\Omega$ max.	Terminal model :50m Ω max. Molded lead wire : 70m Ω max.	Terminal model: $50m\Omega$ max. Molded lead wire: $100m\Omega$ max.	Terminal model: $100 m\Omega$ max. Molded lead wire: $150 m\Omega$ max.	
Operatin	_	1.96N	l max.	1.771	V max.	1.8N	max.	
Durability	Mechanical	10,000,000 op	perations min.	5,000,000 op	perations min.	1,000,000 op	erations min.	
(see note1)	Electrical	100,000 operations min.	1,000,000 operations min.	200,000 op	erations min.	50,000 operations min.	200,000 operations min.	
Degree of	fprotection	IEC IP67(Excluding the ten	minals on terminal model)	IEC IP67(Excluding the ter	rminals on terminal model)	IEC IP67(Excluding the ter	minals on terminal model)	
Ambient opera	ating temperature	-40 to	+85°C	-40 to	+85°C	-20 to	+70°C	
Ambient ope	rating humidity	95%RH max. (fo	or +5 to +35°C)	95%RH max. (f	or +5 to +35°C)	85%RH max. (f	or +5 to +35°C)	
Actuators		S 8	in plunger linge lever imulated oller lever linge roller ever		Pin plunger Hinge lever Simulated roller lever Hinge roller ever		in plunger Hinge lever Simulated Oller lever Hinge roller ever	
Terminal			der	So Quick-con P	lead wire Ider Inect (#110) CB	Molded lead wire Solder Quick-connect (#110) PCB		
Approved	UL				0			
standard	CSA				0	0		
(see note2)	EN/IEC	O (VDE a	approval)	O (VDE	approval)	O (VDE	approval)	

Classification			Sealed Bas	ic Switches		
Model		D2HW	D2JW	D2QW	D2AW	
Appeara	nce	6.5	9,4	5.3	5.3	
Features		Small sealed snap-action switch with a very long stroke for reliable ON/OFF action.	Sealed ultra subminiature basic switch conforms to IP67.	Sealed long stroke slide-contact switch for reliable ON/OFF action even in severe environmental conditions.	Long stroke seal switch with high reliability and high insulation Performance.	
Contact i	form	SPDT / SPST-NC / SPST-NO	SPDT / SPST-NC / SPST-NO	SPST-NC / SPST-NO	SPST-NC / SPST-NO	
	Specification	Crossbar	Crossbar	Slide	Slide	
Contact	Material	Gold alloy	Gold alloy	Gold plated / Silver plated	Silver plated	
	Gap	0.5mm	0.5mm	_	_	
Ratings (resistive	load)	0.1A 125VAC 2A 12VDC 1A 24VDC 0.5A 42VDC	0.1A 30VDC	0.1A 30VDC 10mA 14VDC	0.1A 12VDC	
Inrush current	NC NO	_	0.1A max.	_	_	
Minimum a (reference v	pplicable load values)	1mA at 5VDC	1mA at 5VDC	1mA at 5VDC	1mA at 5VDC	
Contact (initial va	resistance Ilues)	Terminal model:100m Ω max. Molded lead wire :150m Ω max.	Terminal model:100mΩ max. Molded lead wire :140mΩ max.	Terminal model:100m Ω max. Molded lead wire :150m Ω max.	Terminal model:100m Ω max.	
Operatin	_	0.75N max.	2.45N max.	1.5N max.	1.0N max.	
Durability	Mechanical	1,000,000 operations min.	1,000,000 operations min.	500,000 operations min.	200,000 operations min.	
(see note1)	Electrical	100,000 operations min.	100,000 operations min.	0.1A 30VDC : 200,000 operations min. 10mA 14VDC : 500,000 operations min.	200,000 operations min.	
Degree of	fprotection	IEC IP67(Excluding the terminals on terminal model)	IEC IP67(Excluding the terminals on terminal model)	IEC IP67(Excluding the terminals on terminal model)	IEC IP67(Excluding the terminals on terminal model)	
Ambient opera	ating temperature	-40 to +85°C	-40 to +85°C	-40 to +85°C	-40 to +85°C	
Ambient ope	rating humidity	95%RH max. (for +5 to +35°C)	35 to 98%RH (for +5 to +35°C)	95%RH max. (for +5 to +35℃)	95%RH max. (for +5 to +35°C)	
Actuators		Pin plunger Hinge lever Simulated roller lever Hinge roller lever Leaf lever Simulated leaf lever	Pin plunger Hinge lever Simulated roller lever Hinge roller lever	Pin plunger Simulated leaf lever Leaf lever Bent leaf lever	Pin plunger Leaf lever Simulated roller leaf lever	
Terminals		Molded lead wire Solder PCB (straight, right angle, left angle)	Molded lead wire Solder	Molded lead wire Solder PCB	Solder PCB	
Approved	UL	0	_	_	_	
standard	CSA	0	_	_	_	
(see note2)	EN/IEC	_	_	_	<u> </u>	

Note 1: For pin plunger type

Note 2 ●: Approved model with standard marking on the switch

O: Approved model. However no-approved types are included. They are without standard marking on the switch.

Consult your OMRON sales representative.

Actuator (sold separately)

Model	Appearance	Applicable switches		
leaf spring				
VAL	9	V D2VW pin plunger type with OF over 1.96N		
Simulated roller Leaf Spring	<u> </u>			
VAL12	D .rec and	V D2VW pin plunger type with OF over 1.96N		
Roller Leaf Spring	a			
VAL2 VAL02	0	V D2VW pin plunger type with OF over 1.96N		
Long Hinge Lever		V		
VAV		D2RV D2VW pin plunger type with OF over 0.98N		
Hinge Wire Lever		V D3V		
VAV-5		VX D2MV D2RV D2VW pin plunger type with OF over 0.25N		
Hinge Roller Lever	<u> </u>	V		
VAV2	10	V D2RV D2VW pin plunger type with OF over 0.98N		

Model	Appearance	Applicable switches
Reverse Long Hinge Lever		V
VAM		D3V VX D2MV D2RV
Reverse Hinge Lever		V
VAM21		D3V VX D2MV D2RV
Reverse Hinge Modified Lever		V
VAM-1		D3V VX D2MV D2RV
Reverse Roller Modefied Lever	(O)	V
VAM22		D3V VX D2MV D2RV
Reverse Long Hinge Roller Lever		V
VAM2		D3V VX D2MV D2RV
Actuator Lever		
CAA1M	50±1 50±1 Rotary disc 0.6 dia Stainless-steel wire	D2MC

Separator (sold separately)

Model	Thickness	Appearance	Applicable switches
SEPARATOR FOR V0.18	0.18mm	03A 125 N. G. C.	V D3V VX
SEPARATOR FOR V0.25	0.25mm	Separator	D2MV D2RV D2VW
SEPARATOR FOR SS0.18	0.18mm	\$5.5.5 \$5.5.5 \$12000 35 years	SS SS-P SSG
SEPARATOR FOR SS0.4	0.4mm	Separator	D2S D2SW D2SW-P

Door Switches / Power Switches

Classifica	ition	Miniature D	oor Switches	Door Pow	er Switches	Miniature Power Switches
Model		D3D	D3DC	D	2D	C4V
Appeara	nce	15	14.1	33.6 0055	13	19 24
				Standard		
Features		Door switch with long stroke, 9mm.	Door switch indicated the OP with long stroke.	Door interlock power switch	n with contact gap,3mm.	Miniature power switch with contact gap, over 3mm.
Contact	form	SPDT / SPST-NC / SPST-NO	SPST-NC / SPST-NO		ST-NC/SPST-NC/SPST-NO/ +-SPST-NC	DPST-NO / SPST-NO
	Specification	Crossbar	Rivet	Ri	vet	Rivet
Contact Material		Gold alloy	Silver	Si	lver	Silver alloy
	Gap	0.5mm	0.3mm	3mm min.	1mm	3mm
Ratings (resistive	load)	1A 125VAC 0.5A 250VAC	0.1A 30VDC	16A 250VAC	10A 250VAC	8A 125/250VAC
Inrush current	NC NO	_	_	30A max.	24A max.	_
Minimum a	pplicable load values)	1mA at 5VDC	1mA at 5VDC	160mA	at 5VDC	_
Contact (initial va	resistance Ilues)	100mΩ max.	300mΩ max.	50m $Ω$ max.		50mΩ max.
Operatin		2.0N max.	1.0N max.	5.88N max. 2.94N max.	19.61N max. 1.96N max.	7N max.
Durability	Mechanical	300,000 operations min.	100,000 operations min.	10,000,000 o	perations min.	10,000 operations min.
(see note1)	Electrical	50,000 operations min.	100,000 operations min.	100,000 op	erations min.	10,000 operations min.
Degree of	fprotection	IEC IP00	IEC IP00	IEC	IP40	IEC IP00
Ambient opera	iting temperature	-30 to +60°C	-25 to +85°C	-25 to	+85°C	-10 to +55°C
Ambient ope	rating humidity	85%RH max. (for +5 to +35℃)	85%RH max. (for +5 to +35°C)		H max. to +35°C)	45 to 85%RH (for +5 to +35°C)
Actuator	S	Plunger Lever	ېلې Plunger		Pin plunger	A Plunger
Terminal	s	The terminals connect to JST's HL Connector	The terminals connect to JST's XA Connector	Quick-cor	nect (#250)	Quick-connect (#187)
Approved	UL	•	•		•	•
standard	CSA	•	•		•	•
(see note2)	EN/IEC	● (VDE approval)	_	• (VDE	approval)	• (TUV approval)

Miniature Detection Switches

Classification				Detection Switche	PS		Surface Mount De	etection Switches
Model		D:	2A	D.	3C	D2X	D3SK	D3SH
Appeara	nce	4.2	(Distance from hole)	4.2 6 6.7 (External length) 6.7. (Distance from hole)		23	4.95	5.4
		Standard	Low operating force	Standard Low operating force				
Features		Detection switch	with push action.	Detection switch	with lever action.	Detection switch with connector terminals.	The smallest detection switch in the industry with high precision operation.	SMD detection switch. Ideal for miniature mobile devices.
Contact f	orm	SP	PDT	SP	DT	SPST-NC	SPST-NC / SPST-NO	SPST-NC / SPST-NO
Contact	Specification	Sli	ide	Sli	de	Slide	Slide	Slide
Contact	Material	Silver	plated	Silver	plated	Gold plated	Gold plated/Silver plated	Gold plated/Silver plated
Ratings (resistive	load)	0.1A 3	30VDC	0.1A [DC30V	0.1A 30VDC	1mA 5VDC	1mA 5VDC
Minimum a (reference v	pplicable load values)	1mA at 5VDC		1mA at 5VDC		1mA at 5VDC	15µA at 3VDC	15µA at 3VDC
Contact i	resistance lues)	50mΩ max.		50mΩ max.		200mΩ max.	3Ω max.	3Ω max.
Operatin (see note	_	0.98N max.	0.49N max.	1.28N max. 0.39N max.		0.49N max.	0.4N max.	0.3N max.
Durability	Mechanical	-	_	_		1,000,000 operations min.	150,000 operations min.	150,000 operations min.
(see note1)	Electrical	50,000 ope	erations min	50,000 operations min		50,000 operations min	100,000 operations min	100,000 operations min
Degree of	protection	IEC	IP00	IEC	IP00	IEC IP00	IEC IP40	IEC IP40
Ambient opera	ting temperature	-10 to	+80°C	-20 to	+80°C	-10 to +70°C	-25 to +85°C	-25 to +85°C
Ambient ope	rating humidity	85%RH max. (f	or +5 to +35°C)	85%RH max. (f	or +5 to +35°C)	45 to 85%RH (for +5 to +35°C)	85%RH max. (for +5 to +35°C)	85%RH max. (for +5 to +35°C)
Actuator	s	□ Pin plunger		Rotary lever		Rotary lever	Rotary lever	Rotary lever
Terminal	s	PCB		PCB		The terminals connect to Tyco Electronics Japan's CT Connector	Surface mount PCB	Surface mount PCB
Approved	UL	-		-		_	_	_
standard	CSA					_	_	_
(see note2)	EN/IEC	_	_	-		_	_	_

Note 1: For pin plunger type

Note 2 • : Approved model with standard marking on the switch

O : Approved model. However no-approved types are included. They are without standard marking on the switch.

Consult your OMRON sales representative.

Mount	ing					Through-h	ole mounting							
Sealed	/ Unsealed					Un	sealed							
Model							B3F							
Size				6	×6mm			12:	×12mm					
Appea	rance		(
Cautaa				B3F-1000		B3F-1000-G	B3F-	4000	B3F-5000	B3F-5001				
Series				Standard Micro load Standard Long durability High reliability										
Feature	es		Standard tactile switch with through-hole terminals Wide range of models, including 6×6mm,12×12mm, side-operated, radial taping packaged, high-force and gold plated type							pes.				
Contac	t materials			Silver plated		Gold plated	Silver	plated	Silver plated	Gold plated				
Rating	s (resistive lo	ad)	1 -	to 50mA, 3 to 24V[DC .	100μA to 50mA, 3 to 24VDC		1 to 50m	A, 3 to 24VDC					
	um applicabl nce values)	e load	10μA at 1VDC											
	t resistance values)					100r	mΩ max.							
Operat	ing force		0.98N	1.47N	2.55N	1.76N	1.27N	2.55N	1.27N	1.27N				
Durabi	lity		1,000,000 operations min.	300,000 operations min.	100,000 operations min.	300,000 operations min.	3,000,000 operations min.	1,000,000 operations min	10,000,000 operations min	10,000,000 operations min				
	Flat type	Without ground	B3F-1000	B3F-1002	B3F-1005	B3F-1002-G	B3F-4000	B3F-4005	B3F-5000	B3F-5001				
	(height:4.3mm)	With ground	B3F-1100	B3F-1102	B3F-1105	B3F-1102-G	B3F-4100	B3F-4105	B3F-5100	B3F-5101				
	Flat type	Without ground	B3F-1020	B3F-1022	B3F-1025	B3F-1022-G	_	_	_	_				
	(height:5.0mm)	With ground	B3F-1120	B3F-1122	B3F-1125	B3F-1122-G	_	_	_	_				
Plunger	Flat type	Without ground	B3F-1070	B3F-1072	B3F-1075	B3F-1072-G	_	_	_	_				
. iungei	(height:9.5mm)	With ground	_	_	_	_	_	_	_	_				
	Projected type	Without ground	B3F-1050	B3F-1052	B3F-1055	B3F-1052-G	B3F-4050	B3F-4055	B3F-5050	B3F-5051				
	(height:7.3mm)	With ground	B3F-1150	B3F-1152	B3F-1155		B3F-4150	B3F-4155	B3F-5150	B3F-5151				
	Others	Without ground	_	_	_	_	_	_	_	_				
		With ground	_	_	_	_	_	_	_	_				
	of protectio	n ———					_							
Washir						Not	possible							
Ambie tempe	nt operating rature		-25 to +70°C											
Ambie	nt operating	humidity				35 to 85%RH	(for +5 to +35°C)							
Packag	ing						Bag							
		4×4mm			2-10□0				_					
		φ6mm			2-20□0				_					
Key to		D-shaped		B3	2-21 0				_					
(sold s	eparately)	9×9mm			_				2-12□0					
		12×12mm							2-13□0					
		φ9.5mm			_			B3.	2-16□0					

Note: The color is indicated in $\hfill \square$ models for key tops. (Refer to page 35 for details)

Mounti	ing				Through-ho	le mounting						
Sealed	/ unsealed				Unse	ealed						
Model												
Size			6x6mm									
Appear	rance											
Carrian				B3F-3000		B3F-3000-G	B3F-	-6000				
Series				Side-operated		Micro load	Radia	taping				
Feature	es		Wide ran	ge of models, including 6×		ith through-hole terminals rated, radial taping package	d, high-force and gold pla	ated types.				
Contac	t materials			Silver plated		Gold plated	Silver	plated				
Ratings	s (resistive loa	ad)		1 to 50mA, 3 to 24VDC		100μA to 50mA, 3 to 24VDC	1 to 50mA	, 3 to 24VDC				
	um applicable nce values)	e load	10μA at 1VDC									
Contac (initial	t resistance values)				100ms	Ω max.						
Operat	ing force		0.98N	1.47N	2.55N	1.76N	0.98N	1.47N				
Durabi	lity		1,000,000 operations min.	300,000 operations min.	100,000 operations min.	300,000 operations min.	1,000,000 operations min.	300,000 operations min.				
	Flat type	Without ground	_	_	_	_	B3F-6000	B3F-6002				
	(height:4.3mm)	With ground	B3F-3100	B3F-3102	B3F-3105	_	B3F-6100	B3F-6102				
	Flat type	Without ground	_	_	_	_	B3F-6020	B3F-6022				
	(height:5.0mm)	With ground	B3F-3120	B3F-3122	B3F-3125	B3F-3122-G	B3F-6120	B3F-6122				
Plunger	Flat type	Without ground	_	_	_	_	_	_				
	(height:9.5mm)	With ground	_	_	_	_		_				
	Projected type	Without ground	_	_	_	_	B3F-6050	B3F-6052				
	(height:7.3mm)	With ground	B3F-3150	B3F-3152	B3F-3155	_	B3F-6150	B3F-6152				
	Others	Without ground		_	_	_		_				
		With ground		_	_	_		_				
	of protectio	n										
Washin					Not po	ossible						
Ambiei tempei	nt operating rature				-25 to	+70°C						
Ambient operating humidity Packaging				35 to 85%RH (f	or +5 to +35°C)							
				В	ag		Radia	taping				
		4×4mm		B32-	B32-	10_0						
		φ6mm		B32-:	20□0		B32-	20□0				
Key top		D-shaped		B32-	21□0		B32-	21□0				
(sold se	eparately)	9×9mm			_		-	_				
		a12×12mm					-					
		φ9.5mm						_				

Note: The color is indicated in $\hfill\square$ models for key tops. (Refer to page 35 for details)



Mount	ina							Surface	mount					
	/ Unsealed							Unsealed						
Model					B3FS			B3AL						
Size				6×6mm	0313	12×1	12×12mm 6×6.9mm							
Appea	rance							5mm - <u>†</u>						
Series			B3FS-1000 B3FS-4000											
Featur	es		Standard	d tactile switc	h with surface	e mounting to	erminals.	Lo	ng-stroke tac	tile switch wit	th high opera	ting force and	d high durabil	ity.
Contac	t materials				Silver plated						Silver plated			
Rating	s (resistive loa	ad)		1 to	50mA, 3 to 24	1VDC				1 to	50mA, 5 to 16	5VDC		
	um applicable nce values)	e load	10μA at 1VDC								_			
	t resistance values)				100mΩ max.						100mΩ max.			
Operating force			0.98N	1.47N	2.55N	1.47N	2.55N	1.96N	2.45N	3.0N	3.5N	4.0N	4.5N	5.0N
Durability			1,000,000 operations min.	300,000 operations min.	100,000 operations min.	3,000,000 operations min.	1,000,000 operations min.	1,000,000 operations min.			500,000 operations min.			
		Without ground	⊕ B3FS-1000	⊕ B3FS-1002	B3FS-1005	_	_	_	_	_	_	_	_	_
	(height:3.1mm)	With ground	_		_	_	_	_	_	_	_	_	_	_
	riat type	Without ground	_		_	_	_	_	_	_	_	_	_	_
		With ground	_		_	_	_	_	_	_	_	_	_	_
	Flat type	Without ground	⊕ B3FS-1010		B3FS-1015	B3FS-4002P	B3FS-4005P	_	_	_	_	_	_	_
	(height:4.3mm)	With ground	_	_	_	_	_	_	_	_	_	_	_	_
Plunger	Flat type	Without ground	_	_	_	_	_	_	_	_	_	_	_	_
	(height:5.1mm)	With ground	_			_	_	_	_	_	_	_	_	_
	Projected type	Without ground	B3FS-1050	B3FS-1052		B3FS-4052P	B3FS-4055P	_	_	_	_	_	_	_
	(height:7.3mm)	With ground	_			_	_	_	_	_	_	_	_	_
		Without ground	_	_	_	_	_	B3AL-1000	B3AL-1001	B3AL-1002	B3AL-1003	B3AL-1006	B3AL-1005	B3AL-1004
	Others	With ground	_	_	_	_	_	_	_	B3AL-1002- MS	B3AL-1003- MS	_	_	_
	of protectio	n 					,			,			,	
Washir					Not possible						Not possible			
Ambie tempe	nt operating rature				-25 to +70°C						-40 to +90°C			
Ambie	nt operating	humidity		35 to 85	%RH (for +5 t	o +35°C)				35 to 85	%RH (for +5 t	o +35°C)		
Packag	jing		Bag/	'Embossed ta	ping	Embosse	ed taping			Bag/	'Embossed ta	ping		
		4×4mm		B32-10□0		-	_				_			
		ф6тт		B32-20□0										
Key to		D-shaped		B32-21□0			_							
(sold s	eparately)	9×9mm					12□0							
		12×12mm				B32-	13□0				_			
		φ9.5mm				B32-	16□0				_			

Mount	ting				Surface	mount				
Sealed	l / unsealed		Unse	aled	Sealed					
Model			B3	U		B3	BW			
Size			3×2.	āmm	6×6	mm	12×1	2mm		
Appearance										
Series			B3U-1000	B3U-3000						
		Top-operated	Side-operated	B3W-	-1000	B3W-	-4000			
Featur	res		Surface mounted ideal for	high-density mounting.			n with through-hole terminal ration in locations exposed			
Conta	ct materials		Silver	olated		Silver	plated			
Rating	s (resistive loa	d)	1 to 50mA,	3 to 12VDC		1 to 50mA,	3 to 24VDC			
	um applicable nce values)	load	10µА а	t 1VDC		10µА а	it 1VDC			
	ct resistance values)		100ms) max.		100m!	Ω max.			
Opera	ting force		1.5N	1.59N	1.57N max.	2.26N max.	1.96N max.	3.43N max.		
Durab	ility		200,000 operations min.	100,000 operations min.	1,000,000 operations min.	300,000 operations min.	3,000,000 operations min.	1,000,000 operations min.		
	Flat type	Without ground	_		_	_	_	_		
	(height:3.1mm)	With ground	_		_	_	_	_		
	// : L · 2 · A	Without ground	_			_	_	_		
	(height:3.4mm)	With ground	_		_	_	_	_		
	Flat type (height:4.3mm)	Without ground	_		B3W-1000	B3W-1002	B3W-4000	B3W-4005		
Plunger	(Height.4.5Hill)	With ground	_	_	B3W-1100	B3W-1102	B3W-4100	B3W-4105		
	Flat type (height:5.1mm)	Without ground	_	_	B3W-1020	B3W-1022	_	_		
	(ileigitt.3.111iiii)	With ground	_	_	_	_	_	_		
	Projected type (height:7.3mm)	Without ground	_		B3W-1050	B3W-1052	B3W-4050	B3W-4055		
	(Acigna/Jillill)	With ground	P311 1000D		B3W-1150 —	B3W-1152 —	B3W-4150	B3W-4155		
	Others	With ground	B3U-1000P B3U-1100P	B3U-3000P B3U-3100P	_		_			
Dears	e of protection	With ground	B30-1100P				 IP67			
Washi			Not po				sible			
Ambie	ent operating erature		-25 to				+70°C			
	ent operating l	numidity	35 to 85%RH (f	or +5 to +35°C)		35 to 85%RH (f	or +5 to +35°C)			
Packag				d taping			 ag			
		4×4mm	_		B32-1		-	_		
		φ6mm	_		B32-2	20□0	_	_		
Key to	р	D-shaped	_	_	B32-2	21□0	-	_		
-	eparately)	9×9mm	_	_	-	_	B32-12□0			
		12×12mm	_	-	-		B32-13□0			
		φ9.5mm	_		_		B32-13□0 B32-16□0			

Note: The color is indicated in $\hfill \square$ models for key tops. (Refer to page 35 for details)



Mount	ina					Surface moua	int		
	/ unsealed					Sealed			
Model	/ unscaled		B:	 3S	B3:		RS	BSL	B3SE
Size			6×6		6×6mm			imm	6×6mm
	Appearance		4.3mm			3.1mm		dmm 5.1mm	OAUTHIII CO
Series			B3S-	1000					
Features			inting tactile aled structure.	Surface mounting switch with se			tile switch with sealed middle stroke.	6x6mm surface mounting tactile switch with high durability, ultra thin, and sealed structure.	
Contact materials			Silver	plated	Silver plated	Gold plated	Silver	plated	Silver plated
	s (resistive loa		1 to 50mA,	3 to 24VDC	1 to 50mA,	3 to 24VDC	1 to 50mA,	3 to 12VDC	1 to 50mA at 3 to 12VDC
Minimum applicable load (reference values)		e load	10μA a	t 1VDC	10μA a	t 1VDC	10µА а	at 1VDC	10μA at 1VDC
	Contact resistance (initial values)		100mΩ max.		100mΩ max.		100mΩ max.		100mΩ max.
Operat	ing force		1.57N max.	2.26N max.	1.57N	1.76N	1.96N	3.5N	1.96N
Durabi	lity		500,000 operations min.	300,000 operations min.	100,000 ope	rations min.	100,000 оре	erations min.	1,000,000 operations min.
	Flat type	Without ground	_	_		B3SN-3012P-G	_	_	_
	(height:3.1mm)	With ground	_	_		_	_	_	_
	Flat type	Without ground	_	_	_	_			_
	(height:3.4mm)	With ground	_	_	_		_	_	_
	Flat type	Without ground	B3S-1000	B3S-1002	_	_	_	_	_
Plunger	(height:4.3mm)	With ground	B3S-1100	B3S-1102	_	_	_	_	_
	Flat type	Without ground	_	_	_	_	B3SL-1022P	B3SL-1025P	_
	(height:5.1mm)	With ground	_	_	_		_	_	_
	Projected type	Without ground		_	_		_	_	_
	(height:7.3mm)	With ground		_	_		_	_	_
	Others	Without ground		_	_		_	_	B3SE-1002P
	2 11.013	With ground	_	_	_	_	_	_	_
Degree	of protectio	n	IEC	P67	IEC I	IP67	IEC	IP67	IEC IP67
Washin			Poss	ible	Poss	ible	Not p	ossible	Not possible
Ambiei tempei	nt operating rature			+ 70°C		+70°C		+90°C	-25 to + 70°C
Ambie	nt operating	humidity	35 to 85%RH (f	or +5 to +35°C)	35 to 85%RH (fo	or +5 to +35°C)	35 to 85%RH (f	or +5 to +35°C)	35 to 85%RH (for +5 to +35°C)
Packag	ing		Bag/Embos	ssed taping	Bag/Embossed taping	Embossed taping	Embosse	ed taping	Embossed taping
4×4mm				_		-		_	
		φ6mm	_	_	_	_	-	_	_
Key top)	D-shaped	_	_	-	_	-	_	_
(sold se	eparately)	9×9mm	_	_	_	_	-	_	_
		12×12mm	_		-		-		_
		φ9.5mm	_		_		-	_	_

Note: The color is indicated in $\hfill \square$ models for key tops. (Refer to page 35 for details)

Mounting		Through-hole mounting								
Sealed / unsealed		Unsealed								
Model		B3J	B3W-9							
Size		12×18mm	10×1	0mm	12×12mm					
Appearance			11mm							
Features		Hinged tactile switches.	3-colors illminated tactile switches with 2 LEDs. Display 2 different labels in combination with text combination films.							
Contact materials		Silver plated	Silver plated							
Ratings (resistive load)		1 to 50mA, 3 to 24VDC	1 to 50mA, 3 to 24VDC							
Minimum applicable load (reference values)		10μA at 1VDC	10μA at 1VDC							
Contact resistance (initial values)		100mΩ max.	100mΩ max.							
Operating force		1.27N	1.57N max.	2.26N max.	1.57N max.	2.26N max.				
Durability		3,000,000 operations min.	1,000,000 operations min.	300,000 operations min.	1,000,000 operations min.	300,000 operations min.				
Non-Illuminated		B3J-1□00	_	_	_	_				
	1 LED types	B3J-2□00	B3W-9000-□1□	B3W-9002-□1□	B3W-9010-□1□	B3W-9012-□1□				
		B3J-3□00								
Illuminated		B3J-4□00								
	2 LED types	B3J-5□00	B3W-9000-□2□	B3W-9002-□2□	B3W-9010-□2□	B3W-9012-□2□				
		B3J-6□00								
		B3J-7□00								
Degree of	protection	_	_							
Washing		Not possible	Not possible							
Ambient operating temperature		-25 to +70°C	-25 to +70°C							
Ambient operating humidity		35 to 85%RH (for +5 to +35°C)	35 to 85%RH (for +5 to +35°C)							
Packaging		Tray	Tray							
Optional accessories (sold separately)		_	B3W-9 Text combination films B3W-9□□-F□							

Tactile Switch Key Top

Classifications	Key top								
Model	B32								
Size	6×6mm switches B3F-1000 / -1000-G / -3000 / -3000-G / -6000 / B3W-1000 / B3FS-1000			12×12mm switches B3F-4000 / -5000 / -5001 / B3W-4000 / B3FS-4000					
Color	4×4mm	φ6mm	D type	9×9mm	12×12mm	φ9.5mm			
lvory	B32-1000	B32-2000	B32-2100	B32-1200	B32-1300	B32-1600			
Black	B32-1010	B32-2010	B32-2110	B32-1210	B32-1310	B32-1610			
Orange	B32-1020	_	_	B32-1220	B32-1320	B32-1620			
Yellow	B32-1030	_	_	B32-1230	B32-1330	B32-1630			
Blue	B32-1040	_	_	B32-1240	B32-1340	_			
Green	B32-1050	_	_	B32-1250	B32-1350	_			
White	B32-1060	_	_	B32-1260	B32-1360	_			
Red	B32-1080	_	_	B32-1280	B32-1380	_			

Rocker Switches

Classification	ons	Miniature Roo	cker Switches	Illuminated Ro	ocker Switches	
Model		A8	A8L		3A	
Appearance		5.6		32 25		
Features		Miniature rocker switch fo	r high capacity switching.	Illuminated Ro	ocker Switches.	
		SPST	DPST	DF	ST	
Contact for	m	2 ■	2 1 4 3	Non-illuminated 2 1 1	Illuminated 2 III 1 4 III 3	
Case color		Bla	ck	White / Black / Gray		
Cap color		Black		Non-illuminated:White/Red/Green/Blue/Yellow/Black Illuminated:Red/Green/Orange		
Marking		With / Without		With / Without		
Ratings (res	istive load)	10A 250VAC 10A 125VAC		16A 250VAC 16A 125VAC		
Inrush curre	ent	100A max.		100A max.		
Operating f	orce	SPST : 2.16N DPST : 3.92N		19.6N max.		
Durability	Mechanical	50,000 operations min.		40,000 operations min.		
Durability	Electrical	10,000 oper	rations min.	20,000 ope	rations min.	
Protection	of Degree	IEC I	P40	IEC IP40		
Terminals		Solder / PCB / Qui	ck-connect (#187)	Quick-con	nect (#250)	
Ambient op temperatur		-20 to	+55℃	-20 to	+50°C	
Ambient op humidity	perating	45 to 85%RH (fo	or +5 to +35°C)	45 to 85%RH (for +5 to +35°C)		
UL						
Approved	cUL)			
standard	CSA					
	EN		•			
Optional ac		-	-	A8A-RUBBER CAP		

Rocker Switches

Classifications		Rocker Switches with reset function							
Model		A8G		A8			A8GS-T		
Appearance		3.6		17	22 28.5				
Features		Rocker switch with reset function for switching 20A.		Small size rocker sw	ritch with reset funct	ion.	Remote reset rocker switch with delay OFF function.		
		DPDT	SP	ST	DF	PST	DPST / SPST		
		With reset function	With reset function	Without reset function	With reset function	Without reset function	With reset and delay off funtion		
Contact form		4 5 6 + + + + + + + + + + + + + + + +	Micro load contact terminalx1	Micro load contact terminalx 1 a II II b Power contact terminalx 1 1 II II 2	Micro load contact terminalx1 Power contact terminalx1 1 1 2 2 a 1 b Power contact terminalx2 1 1 1 2	Micro load contact terminalx1 Power contact terminalx1 1	Signal contact terminalx 1 Power contact terminalx 2 + T 1 1 1 2 8 a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Case color		Black					Black		
Cap color		Black	Black			Black			
Marking		Without	With / Without			With / Without			
Ratings (res	sistive load)	Contact : 20A 250VAC Reset coil : 185mA 24VDC	Power contact : 10A 250VAC / 16A 125VAC Micro load contact : 0.2A 5VDC Reset coil : 455mA 5VDC / 300mA 3.3VDC			Power contact : 10A 250VAC / 16A 125VAC Micro load contact : 0.2A 5VDC Reset coil : 455mA 5VDC			
Inrush curre	ent	100A max.	117A max. (Power contact)			_			
Operating f	orce	19.6N max.	Micro load contact SPST : 1.0N / Power contact SPST : 1.5N / DPST 2.0N			1.8N			
Durability	Mechanical	Switch operation : 100,000 operations min.		Switch operation : 30 Coil operation : 10,0	0,000 operations min 000 operations min.		Switch operation : 30,000 operations min. Coil operation : 10,000 operations min.		
Darability	Electrical	Switch operation : 50,000 operations min. Coil operation : 10,000 operations min.		Switch operation : 10),000 operations min		Switch operation : 10,000 operations min. Coil operation : 10,000 operations min.		
Protection of	of Degree	IEC IP40		IEC	IP40		IEC IP40		
Terminals		Contact : Quick-connect(#250) Reset Coil : Quick-connect(#110)		act terminal : CT con terminal : Quick-conn		Solder terminals	Micro load contact terminal : CT connector Power contact terminal : Quick-connect treminals(#187), Solder terminals		
Ambient operating temperature		-10 to +55°C		-10 to	+55°C		-10 to +55°C		
Ambient operating humidity		45 to 85%RH (for +5 to +35°C)		90%RH max. (fo	or +5 to +35°C)		90%RH max. (for +5 to +35°C)		
	UL	•		(•		
Approved	cUL	•							
standard	CSA						•		
	EN	•					•		

Pushbutton Switches

Panel cutout		Round	(12dia.)	Round (16dia.)	Square
Model		A3C	M2C	A16□-P	A3A
Appearance					
Features		Pushbutton switch (illuminated/non-illuminated) with cylindrical 12dia. body.	Indicator with cylindrical 12dia. body.	Pushbutton switch (illuminated/non-illuminated) with cylindrical 16dia. body and PCB terminals.	Lighted pushbutton switch with square body.
Body 20mm 20mm		21mm	12.5mm		
Shape of pushbutton Rectangular Square Round		Rectangular Square Round	Square Round		
	Illuminated	Red Green White Yellow	Red Green White Yellow	Red Green Yellow Pure White Blue Pure Yellow	LED lamp Red Green Yellow
Color of pushbutton	Non- Illuminated	Red Green Yellow White Blue Black	_	Red Green Yellow Pure White Blue Black Pure Yellow	Red Green Yellow Light Blue Black Gray Dark Gray
Contact form		SPDT	_	DPDT / SPDT	SPDT / SPST-NO
Action		Momentary Alternate	_	Momentary Alternate	Momentary Alternate
Operating for	ce	2.45N max.	_	IP40 : 4.41N max. IP66 : 4.91N max.	2.45N max.
Ratings (resistive load)	Standard load	0.5A 250VAC 1A 125VAC 1A 30VDC	_	3A 250VAC 5A 125VAC 3A 30VDC	SPST-NO : 2A 250VAC 6A 125VAC 4A 30VDC SPDT : 3A 125VAC 2A 30VDC
	Micro load	0.1A 125VAC 0.1A 30VDC	_	_	_
Minimum app	licable load	1mA at 5VDC	_	1mA at 5VDC	1mA at 5VDC
Durability		100,000 operations min.	_	100,000 operations min.	50,000 operations min.
Degree of protection		IEC IP40	IEC IP40	IEC IP40 / 66	IEC IP40
Terminals		Solder	Solder	PCB	Solder PCB
Ambient oper temperature	rating	-10 to +55°C	-10 to +55°C	-10 to +55°C	-10 to +55°C
Ambient oper humidity	rating	35 to 85%RH	35 to 85%RH	35 to 85%RH	35 to 85%RH
Approved sta	ndard	UL/CSA/CCC	UL / CSA	UL / CSA / EN / CCC	UL / CSA

Pushbutton Switches

Accessories, Tools and Replacements for A3C/M2C (sold separately)

Accessories

Name	Shape	Classification	Model	Remarks
	8	Wire-wrap terminals	A3C-4101	
Socket	l V	PCB terminals	A3C-4102	Cannot be used together with Insulation Cover.
	1111	Solder terminals	A3C-4103	
Insulation Cover	Ĵ	_	A3C-3002	Cannot be used together with Socket.
Switch Guard		For rectangular	A3CJ-5050	Constable a read to a stable a reside Direct Consta
Switch Guard		For square, round	A3CA-5050	Cannot be used together with Dust Cover.
Dust Cover		For rectangular	A3CJ-5060	Cannot be used together with Switch Guard. Can be used together with Dust Cover attached.

Tools

Name	Shape	Classification	Model
Tightening Tools		_	A3C-3004
Extractor		_	A3PJ-5080

Replacements

Name	Name Shape		Model
		For rectangular	A3CJ-5201
Legend Plate		For square	A3CA-5201
		For round	A3CT-5201

Accessories for A3A (sold separately)

Flange (Select according to panel color.)

Name	Shape	Classifi	Classification	
	Square	>	Black	A3A-241
	□12.7	Flange alone	Light gray	A3A-242
	Round	Flange alone	Black	A3A-251
	φ12.7		Light gray	A3A-252
Flange		Leaf sprir	Leaf spring alone	
	Square		Black	A3A-211
	□12.7	Flange and leaf spring	Light gray	A3A-212
	Round	(one each)	Black	A3A-221
	φ12.7		Light gray	A3A-222

An A3A with solder terminals is provided with a round or square black flange and leaf spring. A round black flange is provided with each A3A having solder terminals and a round pushbutton. A square black flange is provided with each A3A having solder terminals and a square pushbutton

Pushbutton Hand Switches

Appearance	
Series C2U (wired) C2UW-D (wired)	C2UW-L (wireless)
Features Double action hand switch. Double action hand switch with a sub sw	vitch. Double action hand switch with a sub switch.
	n switch : DPST switch : SPST-NO
Action Momentary	Momentary
Operating force IST Stage: 4.9±1.47N	1 1st stage : 4.7±1.5N 2nd stage : 12.6±3.0N Sub switch : 4N max.
Ratings (resistive load) 2A 30VDC 2A 125VAC Main switch: 10mA 14VDC 0.1A 30VDC Sub switch: 50mA 24VDC	Internal battery CR17345/CR123A (Lithium primary battery 3VDC)
Durability Mechanical 500,000 operations min. Main switch	h/Sub switch : 400,000 operations min.
Electrical 200,000 operations min.	n/ oub switch . 400,000 operations min.
Degree of protection IEC IP00 IEC IP00	IEC IP00
Ambient operating temperature -10 to +40°C	0 to +40°C
Ambient operating humidity 75%RH max.(for +5 to +35°C)	90%RH max.(for +5 to +35°C)
Wireless certification — —	As of September 2018* Japan, USA, EU, Korea, Canada, Australia, India, Brazil

^{*} Contact your OMRON representative for the latest countries to have acquired wireless certification

Slide DIP Switches



Mounting	g		Surface mounting							
Model		A6H								
Terminal	pitch			1.27mm (H	Half pitch)	alf pitch)				
Appearance			Transfer of the second	•	Contractor of the state of the					
Features			Slic	de DIP switch with ultra low pi	rofile,1.55mm and half p	pitch.				
Actuator	types		Flat actuator			Flat actuator with seal tape				
Packagin	g	Tube	Embossed taping standard reel (4,000 pcs)	Embossed taping small reel (500 pcs)	Tube Embossed taping standard reel Embossed taping sm (4,000 pcs) (500 pcs)					
Contact r	material	rial Gold plated								
Ratings(re	sistive load)		25mA 24VDC / 10μA (minimum current) at 3.5VDC							
Contact resista	nce(initial values)			200mΩ) max.					
	1	_	_	_	_	_	_			
	2	A6H-2101	A6H-2101-P	A6H-2101-PM	A6H-2102	A6H-2102-P	A6H-2102-PM			
	3	_	_	_	_	_	_			
	4	A6H-4101	A6H-4101-P	A6H-4101-PM	A6H-4102	A6H-4102-P	A6H-4102-PM			
No. of	5	_	_	_	_	_	_			
poles	6	A6H-6101	A6H-6101-P	A6H-6101-PM	A6H-6102	A6H-6102-P	A6H-6102-PM			
	7	_	_	_	_	_	_			
	8	A6H-8101	A6H-8101-P	A6H-8101-PM	A6H-8102	A6H-8102-P	A6H-8102-PM			
	9	_	_	_	_	_	_			
	10	A6H-0101	A6H-0101-P	A6H-0101-PM	A6H-0102	A6H-0102-P	A6H-0102-PM			
Durabilit	у			1,000 opera	ations min.					
Washing			Not possible			Possible				
Degree of	protection	IEC IP40								
Ambient opera	ting temperature	-20 to +70°C								
Ambient oper	rating humidity			35 to 95%RH (fo	or +5 to +35°C)					
, , , , , , , , , , , , , , , , , , ,		The state of the s								

Mountin	g	Surface mounting						
Model			A6HF		A6S-H			
Terminal	pitch		1.27mm (Half pitch)		2.54mm (Standard pitch)			
Appearance			Section .	•	CONTRACTOR OF THE PROPERTY OF			
Features		Slide DIP sw	itches with a height of 2.3mm	and half pitch.	Stanc	ard surface mounting slide DIP Washable, with seal tape availal	switches. ble.	
Actuator	types		Flat actuator with seal tape			Flat actuator		
Packagin	ıg	Tube	Embossed taping standard reel (2,000 pcs)	Embossed taping small reel (500 pcs)	Tube Embossed taping standard reel Embossed taping s (900 pcs) (400 pcs)			
Contact i	material		Gold plated		Gold plated			
Ratings(re	sistive load)	25mA 24	VDC / 10μA (minimum current) at 3.5VDC	25mA 24VDC / 10μA (minimum current) at 3.5VDC			
Contact resista	ance(initial values)		200mΩ max.			200mΩ max.		
	1	_	_	_	A6S-1101-H	A6S-1101-PH	_	
	2	A6HF-2102	A6HF-2102-P	A6HF-2102-PM	A6S-2101-H	A6S-2101-PH	_	
	3	_	_	_	A6S-3101-H	A6S-3101-PH	A6S-3101-PMH	
	4	A6HF-4102	A6HF-4102-P	A6HF-4102-PM	A6S-4101-H	A6S-4101-PH	A6S-4101-PMH	
No. of	5	_	_	_	A6S-5101-H	A6S-5101-PH	_	
poles	6	A6HF-6102	A6HF-6102-P	A6HF-6102-PM	A6S-6101-H	A6S-6101-PH	A6S-6101-PMH	
	7	_	_	_	A6S-7101-H	A6S-7101-PH	_	
	8	A6HF-8102	A6HF-8102-P	A6HF-8102-PM	A6S-8101-H	A6S-8101-PH	A6S-8101-PMH	
	9	_	_	_	A6S-9101-H	_	_	
	10	A6HF-0102	A6HF-0102-P	A6HF-0102-PM	A6S-0101-H	_	A6S-0101-PMH	
Durabilit	у		1,000 operations min.		1,000 operations min.			
Washing	Washing Possible		Not possible					
Degree of	fprotection		IEC IP40		IEC IP40			
Ambient opera	iting temperature		-30 to +85°C	-30 to +85°C		-20 to +70°C		
Ambient oper	rating humidity		35 to 95%RH (for +5 to +35℃)		35 to 95%RH (for +5 to +35°C	<u></u>	

Note:Default actuator setting is OFF for Slide DIP Switches and Plano DIP Switches. Be sure to read the Safety precautions common to all DIP Switches for correct use.

Slide DIP Switches



Mounting	g	Surface mounting									
Model		A6S-H									
Terminal	pitch	2.54mm (Standard pitch)									
Appearar	nce	CO CONTRACTOR OF THE PARTY OF T					•				
Features				Standard surface mount Washable, with seal tape							
Actuator	types		Flat actuator with seal tape			Raised actuator					
Packagin	g	Tube	Embossed taping standard reel (800/900 pcs)	Embossed taping small reel (400 pcs)	Tube	Embossed taping standard (700/800 pcs)	d reel Embossed taping small re (400 pcs)				
Contact r	material		(Gold p	lated	(, ,	(/				
Ratings(re	sistive load)			25mA 24VDC / 10μA (mini	imum current) at 3.5VD	C					
Contact resista	nce(initial values)			200mΩ	! max.						
	1	A6S-1102-H	A6S-1102-PH	_	A6S-1104-H	A6S-1104-PH	_				
	2	A6S-2102-H	A6S-2102-PH	A6S-2102-PMH	A6S-2104-H	A6S-2104-PH	_				
	3	A6S-3102-H	A6S-3102-PH	_	A6S-3104-H	A6S-3104-PH	_				
No. of poles	4	A6S-4102-H	A6S-4102-PH	A6S-4102-PMH	A6S-4104-H	A6S-4104-PH	A6S-4104-PMH				
	5	A6S-5102-H	A6S-5102-PH	_	A6S-5104-H	A6S-5104-PH	_				
ooles	6	A6S-6102-H	A6S-6102-PH	A6S-6102-PMH	A6S-6104-H	A6S-6104-PH	A6S-6104-PMH				
	7	A6S-7102-H	A6S-7102-PH	_	A6S-7104-H	A6S-7104-PH					
	8	A6S-8102-H	A6S-8102-PH	A6S-8102-PMH	A6S-8104-H	A6S-8104-PH	A6S-8104-PMH				
	9	A6S-9102-H	A6S-9102-PH A6S-0102-PH	A6S-0102-PMH	A6S-9104-H A6S-0104-H	A6S-9104-PH	A6C 0104 DMII				
Ourability		A6S-0102-H	A05-0102-PH			A6S-0104-PH	A6S-0104-PMH				
Vashing	y	1,000 operations min. Possible Not possible									
	protection	IEC IP40									
	ting temperature	-20 to +70°C									
	rating humidity			35 to 95%RH (fo							
unbient oper	duling fidinitality			33 (0)3/0111 (10	1 13 10 133 C)						
Mounting	g			Surface m	ounting						
Model		A6SN									
Terminal	pitch			2.54mm (Star	ndard pitch)						
Appearar	nce										
Features		Surface mounting slide DIP switch with high contact reliability. Washable, even without seal tape available.									
Actuator	types		Flat actuato			Raised a	ctuator				
Packagin	g	Tube	Em	bossed taping standard reel (750 pcs)		Tube	Embossed taping standard red (700 pcs)				
			Without seal t	· · · · · · · · · · · · · · · · · · ·	al tape						
Contact r				Gold p							
	sistive load)			25mA 24VDC / 10μA (mini		<u> </u>					
Contact resista	nce(initial values)		1	200mΩ							
	1	A6SN-1101	A65N 2101	D 465N 3		A6SN-1104					
	2	A6SN-2101	A6SN-2101-			A6SN-2104	A6SN-2104-P				
	3	A6SN-3101	A6SN-3101-			A6SN-3104	A6SN-3104-P				
No -f	5	A6SN-4101 A6SN-5101	A6SN-4101- A6SN-5101-			A6SN-4104 A6SN-5104	A6SN-4104-P A6SN-5104-P				
No. of poles	6	A6SN-6101	A6SN-5101-			A6SN-6104	A6SN-5104-P				
	7	A6SN-7101	A6SN-7101-			A6SN-7104	A6SN-7104-P				
	8	A6SN-8101	A6SN-8101-			A6SN-8104	A6SN-8104-P				
	9	A6SN-9101	A6SN-9101-			A6SN-9104	A6SN-9104-P				
	10	A6SN-0101	A6SN-0101-			A6SN-0104	A6SN-0104-P				
Durability		337. 0.01	7.653.1 0101	1,000 opera							
Washing				Possi							
	protection			IEC IF							
	ting temperature			-30 to -							
	rating humidity			35 to 95%RH (fo							
	,				-,						

Note: Default actuator setting is OFF for Slide DIP Switches and Piano DIP Switches.

Be sure to read the Safety precautions common to all DIP Switches for correct use.

Slide DIP Switches

Mountin	g	Through-hole mounting					
Model			A6T		A	5TN	
Terminal	pitch		2.54mm (Standard pitch)			andard pitch)	
Appearance		NEW PROPERTY OF THE PROPERTY O			STATE OF THE PARTY	REAL PROPERTY.	
Features			through-hole mounting slide DIP so e, with seal tape available.	witch.	Through-hole mounting slide DIP Washable, even without seal tape	switch with high contact reliability. available.	
Actuator	types	Flat actuator	Flat actuator with seal tape	Raised actuator	Flat actuator	Raised actuator	
Packagin	g		Tube		Tu	ibe	
Contact	material		Gold plated		Gold plated		
Ratings(re	sistive load)	25mA 2	25mA 24VDC / 10μA (minimum current) at 3.5VDC		25mA 24VDC / 10μA (minimum current) at 3.5VDC		
Contact resista	nce(initial values)		200m $Ω$ max.	200mΩ max. 20		mΩ max.	
	1	A6T-1101	A6T-1102	A6T-1104	A6TN-1101	A6TN-1104	
	2	A6T-2101	A6T-2102	A6T-2104	A6TN-2101	A6TN-2104	
	3	A6T-3101	A6T-3102	A6T-3104	A6TN-3101	A6TN-3104	
	4	A6T-4101	A6T-4102	A6T-4104	A6TN-4101	A6TN-4104	
No. of	5	A6T-5101	A6T-5102	A6T-5104	A6TN-5101	A6TN-5104	
poles	6	A6T-6101	A6T-6102	A6T-6104	A6TN-6101	A6TN-6104	
	7	A6T-7101	A6T-7102	A6T-7104	A6TN-7101	A6TN-7104	
	8	A6T-8101	A6T-8102	A6T-8104	A6TN-8101	A6TN-8104	
	9	A6T-9101	A6T-9102	A6T-9104	A6TN-9101	A6TN-9104	
	10	A6T-0101	A6T-0102	A6T-0104	A6TN-0101	A6TN-0104	
Durability			1,000 operations min.		1,000 ope	rations min.	
Washing		Not possible Possible Not possible			Pos	sible	
Degree of	fprotection		IEC IP40		IEC	IP40	
Ambient opera	ting temperature		-20 to +70°C		-30 to +85°C		
Ambient ope	rating humidity		35 to 95%RH (for +5 to +35°C)		35 to 95%RH (for +5 to +35°C)		

Mounting	9		Through-hol	e mounting			
Model		A6	D	A6E	-N		
Terminal	pitch	2.54mm (Sta	ndard pitch)	2.54mm (Star	ndard pitch)		
Appearar	nce	VI COLOR	WAR THE THE PARTY OF THE PARTY	THE THE			
Features		Through-hole mounting slide DIP switch v sealed construction.	with high environmental resistance by	Box type through-hole mo	unting slide DIP switches.		
Actuator	types	Flat actuator	Raised actuator	Flat actuator	Raised actuator		
Packagin	g	Tul	pe	Tuk	pe		
Contact r	material	Gold p	plated	Gold p	lated		
Ratings(res	sistive load)	30mA 30VDC / 10μA (min	imum current) at 3.5VDC	25mA 24VDC / 10μA (minimum current) at 3.5VDC			
Contact resistar	nce(initial values)	100mΩ	2 max.	200mΩ	2 max.		
	1	_	_	_	_		
	2	A6D-2100	A6D-2103	A6E-2101-N	A6E-2104-N		
	3	A6D-3100	A6D-3103	A6E-3101-N	A6E-3104-N		
	4	A6D-4100	A6D-4103	A6E-4101-N	A6E-4104-N		
No. of	5	A6D-5100	A6D-5103	A6E-5101-N	A6E-5104-N		
poles	6	A6D-6100	A6D-6103	A6E-6101-N	A6E-6104-N		
	7	A6D-7100	A6D-7103	A6E-7101-N	A6E-7104-N		
	8	A6D-8100	A6D-8103	A6E-8101-N	A6E-8104-N		
	9	A6D-9100	A6D-9103	A6E-9101-N	A6E-9104-N		
	10	A6D-0100	A6D-0103	A6E-0101-N	A6E-0104-N		
Durability	У	2,000 opera	ations min.	1,000 opera	itions min.		
Washing		Poss	· ·	Not possible			
Degree of	protection	Internally sealed (IEC	C IP64 equivalency)	IEC IP40			
Ambient operat	ting temperature	-20 to	+70°C	-20 to +70°C			
Ambient oper	ating humidity	35 to 95%RH (fc	or +5 to +35°C)	35 to 95%RH (fc	r +5 to +35°C)		

Note: Default actuator setting is OFF for Slide DIP Switches and Piano DIP Switches.

Be sure to read the Safety precautions common to all DIP Switches for correct use.

Piano DIP Switches



Mounting	g				Surface mounting				
Model			A6HR			A69	SR		
Terminal	pitch		1.27mm (Half pitch)		2.54mm (Standard pitch)				
Appearar	nce		Tilling	•	515 E	ि । 'व क ह	5566	Constitution of the consti	
Features		Miniature pia	no DIP switch with half p	itch terminals.		Piano DIP switch with su	rface mounting termin	als.	
Actuator	types		Long actuator		Short	actuator	Long	actuator	
Packagin	g	Tube	Embossed taping standard reel (1000 pcs)	Embossed taping small reel (500 pcs)	Tube	Embossed taping standard reel	Tube	Embossed taping standard reel	
Contact r	material		Gold plated			Gold p	olated		
Ratings(res	sistive load)	25mA 24VD	C / 10µA (minimum curre	ent) at 3.5VDC	25mA 24VDC / 10μA (minimum current) at 3.5VDC				
Contact resista	nce(initial values)		$200m\Omega$ max.		200mΩ max.				
	1	_	_	_	_	_	_	_	
	2	A6HR-2104	A6HR-2104-P	A6HR-2104-PM	A6SR-2101	A6SR-2101-P	A6SR-2104	A6SR-2104-P	
	3	_	_	_	_	_	_	_	
	4	A6HR-4104	A6HR-4104-P	A6HR-4104-PM	A6SR-4101	A6SR-4101-P	A6SR-4104	A6SR-4104-P	
No. of	5	_	_	_	_	_	_	_	
poles	6	A6HR-6104	A6HR-6104-P	A6HR-6104-PM	A6SR-6101	A6SR-6101-P	A6SR-6104	A6SR-6104-P	
	7	_	_	_	_	_	_	_	
	8	A6HR-8104	A6HR-8104-P	A6HR-8104-PM	A6SR-8101	A6SR-8101-P	A6SR-8104	A6SR-8104-P	
	9	_	_	_	_	_	_	_	
	10	A6HR-0104	A6HR-0104-P	A6HR-0104-PM	A6SR-0101	A6SR-0101-P	A6SR-0104	A6SR-0104-P	
Durability	у		1,000 operations min.			1,000 opera	ations min.		
Washing			Not possible			Not po	ossible		
Degree of	protection		IEC IP40			IEC II	P40		
Ambient operat	ting temperature		-30 to +85°C		-20 to +70°C				
Ambient oper	ating humidity	35	5 to 95%RH (for +5 to +35	°C)	35 to 95%RH (for +5 to +35°C)				

Mountin	g			Through-hole mounting			
Model		A6	TR	A6DR	A6	FR	
Terminal	pitch	2.54mm (Sta	ndard pitch)	2.54mm (Standard pitch)	2.54mm (Sta	indard pitch)	
Appeara	nce	111111	TTTTT	The state of the s	Car	THE STATE OF THE S	
Features		Low profile piano DIP switch	with through-hole terminals.	Through-hole mounting piano DIP switch with high environmental resistance by sealed construction.	Box type through-hole mounting piano DIP switch.		
Actuator	types	Short actuator	Long actuator	Long actuator	Short actuator	Long actuator	
Packagin	g	Tu	be	Вох	Tu	be	
Contact i	material	Gold	olated	Gold plated	Gold	plated	
Ratings(re	sistive load)	25mA 24VDC / 10μA (mir	nimum current) at 3.5VDC	30mA 30VDC / 10μA (minimum current) at 3.5VDC	25mA 24VDC / 10μA (minimum current) at 3.5VDC		
Contact resista	nce(initial values)	200mQ	າ max.	100mΩ max.	200m	Ω max.	
	1	_	_	_	_	_	
	2	A6TR-2101	A6TR-2104	A6DR-2100	A6FR-2101	A6FR-2104	
	3	_	_	_	A6FR-3101	A6FR-3104	
	4	A6TR-4101	A6TR-4104	A6DR-4100	A6FR-4101	A6FR-4104	
No. of	5	_	_	_	A6FR-5101	A6FR-5104	
poles	6	A6TR-6101	A6TR-6104	A6DR-6100	A6FR-6101	A6FR-6104	
	7	_	_	_	A6FR-7101	A6FR-7104	
	8	A6TR-8101	A6TR-8104	A6DR-8100	A6FR-8101	A6FR-8104	
	9	_	_	_	A6FR-9101	A6FR-9104	
	10	A6TR-0101	A6TR-0104	A6DR-0100	A6FR-0101	A6FR-0104	
Durabilit	у	1,000 oper	ations min.	2,000 operations min.	1,000 oper	ations min.	
Washing		Not po	ossible	Possible	Not po	ossible	
Degree of	fprotection	IEC I	P40	Internally sealed (IEC IP64 equivalency)	IEC	IP40	
Ambient opera	ting temperature	-20 to	+70°C	-20 to +70°C	-20 to	+70°C	
Ambient oper	rating humidity	35 to 95%RH (fo	or +5 to +35°C)	35 to 95%RH (for +5 to +35°C)	35 to 95%RH (for +5 to +35°C)		

Note:Default actuator setting is OFF for Slide DIP Switches and Piano DIP Switches.

Be sure to read the Safety precautions common to all DIP Switches for correct use.

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Mount	ina					Surface	mounting					
Model							5KS					
	al pitch						7.2mm					
Appea	<u> </u>											
Feature	es				Top actuated miniature(7.2×7.2mm) rotary DIP switch with surface mounting terminals.							
Actuat	Actuator types				Tul	De .	Embossed tapi	ng standard reel				
Packag	Packaging					Gold	plated					
Contac	Contact material					25mA 24VDC / 10μA (mi	nimum current) at 3.5VDC					
Ratings	Ratings(resistive load)					200m	Ω max.					
Positio	n				10	16	10	16				
				4×1Terminals	_	_	_	_				
		Real	Top actuated	3×3Terminals	A6KS-102RF	A6KS-162RF	A6KS-102RF-P	A6KS-162RF-P				
	Flat		actuateu	5×2Terminals	A6KS-104RF	A6KS-164RF	A6KS-104RF-P	A6KS-164RF-P				
	riat			4×1Terminals	_	_	_	_				
			actuated		Side	3×3Terminals	_	_	_	_		
T				5×2Terminals	_	_	_	_				
Types		code	_	4×1Terminals	_	_	_	_				
			Top actuated	3×3Terminals	A6KS-102RS	A6KS-162RS	A6KS-102RS-P	A6KS-162RS-P				
	Extended		actuated	5×2Terminals	A6KS-104RS	A6KS-164RS	A6KS-104RS-P	A6KS-164RS-P				
	actuator		6.1	4×1Terminals	_	_	_	_				
			Side actuated	3×3Terminals	_	_	_	_				
			actuated	5×2Terminals	_	_	_	_				
Durabi	Durability					20,000 s	teps min.					
Washir	Washing					Not p	ossible					
Degree	Degree of protection				IEC IP60							
Ambie	Ambient operating temperature			e	-30 to +80°C							
Ambie	Ambient operating humidity				35 to 95%RH (for +5 to +35℃)							

Mount	ing					Surface i	mounting				
Model						A6	KSV				
Termin	al pitch				7.2x7.2mm						
Appea	rance										
Feature	es				Side actuated miniature(7.2×7.2mm) rotary DIP switch with surface mounting terminals.						
Actuat	or types				Tul	oe	Embossed tapi	ng standard reel			
Packag	Packaging					Gold	plated				
Contact material						25mA 24VDC / 10μA (mi	nimum current) at 3.5VDC				
Ratings	Ratings(resistive load)					200m	Ω max.				
Positio	n				10	16	10	16			
			T	4×1Terminals	_	_	_	_			
	Flat		Top actuated	3×3Terminals	_	_	_	_			
				5×2Terminals	_	_	_	_			
			Side	4×1Terminals	_	_	_	_			
			actuated	3×3Terminals	_	_	_	_			
Types		Real		5×2Terminals	A6KSV-104RF	A6KSV-164RF	A6KSV-104RF-P	A6KSV-164RF-P			
Турсз		code	Ton	4×1Terminals	_	_	_	_			
			Top actuated	3×3Terminals	_		_	_			
	Extended			5×2Terminals	_	_	_	_			
	actuator		Side	4×1Terminals	_	_	_	_			
			actuated	3×3Terminals	_		_	_			
				5×2Terminals	A6KSV-104RS	A6KSV-164RS	A6KSV-104RS-P	A6KSV-164RS-P			
Durabi	Durability					20,000 s	teps min.				
Washir	Washing					Not p	ossible				
Degree	Degree of protection				IEC IP60						
Ambie	Ambient operating temperature				-30 to +80℃						
Ambie	Ambient operating humidity				35 to 95%RH (for +5 to +35℃)						

Note:Default rotor setting is 0 for Rotary DIP Switches.

Be sure to read the Safety precautions common to all DIP Switches for correct use.



					Surface mounting							
Mount	ing											
Model							SRS					
Termin	al pitch					9.8×9	9.9mm					
Appea	rance											
Feature	es				Surface mounting rotary DIP switch.							
Actuat	Actuator types				Tuk	pe	Embossed tapi	ng standard reel				
Packag	Packaging					Gold	plated					
Contac	Contact material					25mA 24VDC / 10μA (mii	nimum current) at 3.5VDC					
Rating	Ratings (resistive load)					200m:	Ω max.					
Positio	n				10	16	10	16				
				4×1Terminals	A6RS-101RF	A6RS-161RF	A6RS-101RF-P	A6RS-161RF-P				
			Top actuated	3×3Terminals	A6RS-102RF	A6RS-162RF	A6RS-102RF-P	A6RS-162RF-P				
	F1 .		actuateu	5×2Terminals	_	_	_	_				
	Flat			4×1Terminals	_	_	_	_				
			Side actuated	3×3Terminals	_	_	_	_				
-		Real	actuateu	5×2Terminals	_	_	_	_				
Types		code	_	4×1Terminals	A6RS-101RS	A6RS-161RS	A6RS-101RS-P	A6RS-161RS-P				
			Top actuated	3×3Terminals	A6RS-102RS	A6RS-162RS	A6RS-102RS-P	A6RS-162RS-P				
	Extended		actuated	5×2Terminals	_	_	_	_				
	actuator			4×1Terminals	_	_	_	_				
			Side actuated	3×3Terminals	_	_	_	_				
			actuated	5×2Terminals	_	_	_	_				
Durabi	lity					5,000 st	eps min.					
Washir	Washing					Not p	ossible					
Degree	Degree of protection				IEC IP60							
Ambie	Ambient operating temperature			e	-25 to +80°C							
Ambie	Ambient operating humidity				35 to 95%RH (for +5 to +35℃)							

Mount	ing					Through-ho	le mounting			
Model					A6	5K	A6	KV		
Termin	al pitch					7.2×7	2mm			
Appea	rance									
Feature	es					Miniature (7.2×7.2mm) rotary DIP s	witch with through-hole terminals.			
Actuat	or types					Tu	be			
Packag	ging					Gold p	plated			
Contac	t material					25mA 24VDC / 10μA (mir	imum current) at 3.5VDC			
Rating	s (resistive	load)				200m() max.			
Positio	n				10	16	10	16		
			Ton	4×1Terminals	_	_	_	_		
			Top actuated	3×3Terminals	A6K-102RF	A6K-162RF	_	_		
	Flat			5×2Terminals	A6K-104RF	A6K-164RF	_	_		
	liat		Side	4×1Terminals	_	_	_	_		
			actuated	3×3Terminals	_	_	A6KV-102RF	A6KV-162RF		
Types		Real	uctuatea	5×2Terminals	_	_	A6KV-104RF	A6KV-164RF		
Types		code	T	4×1Terminals	_	_	_	_		
			Top actuated	3×3Terminals	A6K-102RS	A6K-162RS	_	_		
	Extended		actuatea	5×2Terminals	A6K-104RS	A6K-164RS	_	_		
	actuator		C'. L	4×1Terminals	_	_	_	_		
			Side actuated	3×3Terminals	_	_	A6KV-102RS	A6KV-162RS		
			detudied	5×2Terminals	_	_	A6KV-104RS	A6KV-164RS		
Durabi	Durability					20,000 st	eps min.			
Washir	Washing					Not po	ossible			
Degree	Degree of protection				IEC IP60					
Ambie	Ambient operating temperature				-30 to +80°C					
Ambie	Ambient operating humidity				35 to 95%RH (for +5 to +35°C)					

Note: Default rotor setting is 0 for Rotary DIP Switches.

Be sure to read the Safety precautions common to all DIP Switches for correct use.

Mounti	ing					Through-ho	le mounting								
Model					A6	R	Ac	5RV							
Termin	al pitch					9.8×9	.9mm								
Appeai	rance														
Feature	es					Through-hole mount	ing rotary DIP switch.								
Actuate	or types					Tu	be								
Packag	jing					Gold p	olated								
Contac	t material					25mA 24VDC / 10μA (mir	nimum current) at 3.5VDC								
Ratings	s (resistive	load)				200m(nax.								
Positio	n				10	16	10	16							
			Ton	4×1Terminals	A6R-101RF	A6R-161RF	_	_							
			Top actuated	3×3Terminals	A6R-102RF	A6R-162RF	_	_							
	Flat			5×2Terminals	_	_	_	_							
	i iut		Cido	4×1Terminals	_	_	A6RV-101RF	A6RV-161RF							
			actuated					actuated _	actuated	actuated	actuated	3×3Terminals	_	_	A6RV-102RF
Types		Real		5×2Terminals	_	_	_	_							
Types		code	Taus	4×1Terminals	A6R-101RS	A6R-161RS	_	_							
			Top actuated	3×3Terminals	A6R-102RS	A6R-162RS	_	_							
	Extended			5×2Terminals	_	_	_	_							
	actuator		C:J-	4×1Terminals	_	_	A6RV-101RS	A6RV-161RS							
			Side actuated	3×3Terminals	_	_	A6RV-102RS	A6RV-162RS							
				5×2Terminals	_	_	_	_							
Durabi	Durability					5,000 ste	eps min.								
Washin	Washing					Not po	ossible								
Degree	Degree of protection				IEC IP60										
Ambiei	Ambient operating temperature				-25 to +80°C										
Ambiei	nt operatii	ng hu	midity			35 to 95%RH (fo	or +5 to +35°C)								

Mounti	ng		Through-ho	ole mounting				
Model			A	6A				
Termina	al pitch		10×1	10mm				
Appear	ance							
Feature	S		Sealed rotary DIP switch with va	arious selections for code setting.				
Actuato	r types		В	ox				
Packagi	ng		Gold	plated				
Contact	material		0.1A 28VDC / 1mA (minimum current) at 5VDC					
Ratings	(resistive lo	ad)	200m	Ω max.				
Position	1		10	16				
	Cone	Real code	A6A-10R	A6A-16R				
	Cone	Complementary code	A6A-10C	A6A-16C				
	Flat	Real code	A6A-10RF	A6A-16RF				
Tunos	riat	Complementary code	A6A-10CF	A6A-16CF				
Types	Extended	Real code	A6A-10RS	A6A-16RS				
	actuator	Complementary code	A6A-10CS	A6A-16CS				
	Wheel	Real code	A6A-10RW	A6A-16RW				
	wneei	Complementary code	A6A-10CW	A6A-16CW				
Durabil	ity		2,000 st	teps min.				
Washin	Washing		Pos	sible				
Degree of protection			Internally sealed (IE	EC IP64 equivalency)				
Ambier	t operating	temperature	-10 to +70°C					
Ambier	t operating	humidity	45 to 85%RH (f	for +5 to +35°C)				

Note: Default rotor setting is 0 for Rotary DIP Switches.

Be sure to read the Safety precautions common to all DIP Switches for correct use.

Mountin	ng				Through-ho	ole mounting		
Model				A60	<u> </u>	A6	CV	
Termina	l pitch			9×6.6r	mm	9×7.	mm	
Appeara	ince							
Feature:	5			Internally sealed DIL-IC top a	actuated type DIP switch.	Internally sealed DIL-IC side ac	tuated type rotary DIP switch.	
Actuato	r types			Tub	е	Вох		
Packagi	ng			Gold pl	ated	Gold p	plated	
Contact	material			0.1A 30VDC / 10μA (minin	num current) at 3.5VDC	0.1A 30VDC / 10μA (mini	mum current) at 3.5VDC	
Ratings	(resistive l	oad)		200mΩ	max.	200mΩ max.		
Position				10	16	10	16	
T	Flat	Real code	Top actuated	A6C-10R(N)	A6C-16R(N)	_	_	
Types	riat	Real Code	Side actuated	_	_	A6CV-10R	A6CV-16R	
Durabili	ty			2,000 step	os min.	2,000 ste	eps min.	
Washing	Washing			Possil	ble	Poss	ible	
Degree o	Degree of protection			Internally sealed (IEC	IP64 equivalency)	Internally sealed (IE	C IP64 equivalency)	
Ambien	Ambient operating temperature			-20 to +	-70°C	-20 to +70°C		
Ambien	t operatin	g humidity		35 to 95%RH (for	r +5 to +35°C)	35 to 95%RH (for +5 to +35°C)		

Note: Default rotor setting is 0 for Rotary DIP Switches.

Be sure to read the Safety precautions common to all DIP Switches for correct use.

Thumbwheel Switches Line up

Category							Push Op	eration				
Model		A7[DP-2	A7	D-2	A71	D-1	A7C	N-L2	A70	N-2	A7CN-1
Shape (mn	1)	Swit	perated ches 16 5.08 eight: 3.2mm)	(Character h	16 5.08 eight: 3.2mm)	(Character he	5.08 ight: 3.2mm)	Locking Swit	18	(Character he	18 18 6 ight: 3.4mm)	(Character height: 3.4mm)
Features			• Sav	DC circuits (3 /es space n be manufac	3.3 to 30VDC) tured with sto	ppers		• 3.3 to 28VDC • For building into small machines • Switching current: 1mA to 0.1A				
Installation	n method	One-step mounting Front mounting (PCB Terminals)						One-step mounting (Front mounting) (Back mounting)				mounting Back
Terminals	Terminals		PCB Terminals							PCB Ter	minals	
Dust resista	ance	Yes (IP50)								Yes (I	P50)	
Case color		Light gray	Black	Light gray	Black	Light gray	Black	Light gray	Black	Light gray	Black	Black
	03 (decimal code)	-	_	-	_	_	_	-	_ I	_	_	_
	06 (binary code decimal)	A7DP-206	A7DP-206-1	A7D-206	A7D-206-1	A7D-106	A7D-106-1	A7CN-L206	A7CN-L206-1	A7CN-206	A7CN-206-1	A7CN-106-1
Switch	O7 binary coded decimal, with component- adding provision	-	_	-	_	_		_		_		_
units according to output codes	19 decimal code, with componentadding provision	-	_	-	_	_	_	_		-	_	_
	54 binary coded hexadecimal	-		_				-		_	_	_
	55 binary coded hexadecimal, with component-adding provision	-	_	-	_		_	_		_		_
End caps		A7D-2M	A7D-2M-1	A7D-2M	A7D-2M-1	A7D-1M	A7D-1M-1	A7CN-2M	A7CN-2M-1	A7CN-2M	A7CN-2M-1	A7CN-1M-1
Spare unit		A7D-2PA	A7D-2PA-1	A7D-2PA	A7D-2PA-1	A7D-1PA	A7D-1PA-1	A7CN-2PA	A7CN-2PA-1	A7CN-2PA	A7CN-2PA-1	A7CN-1PA-1
Connector	Solder terminals PCB terminals									_		

Note: Only basic specifications are provided in the table. Always refer to the specified pages for detailed specifications and to precautions before attempting to use the product.

Thumbwheel Switches Line up

Category						Push Op	peration					Rotary Operation
Model		A7	7BL	A7	'BS	A7BS-	20□-S	A7	'PS	A7	PH	A7MD
Shape (mn	n)	Locking Swite	ches 24 eight: 4.8mm)	Switches with External Stoppers (Character heights: Decimal: 4.8mm, Hexadecimal: 3.2mm)			Character heights: Decimal: 6.8mm, Hexadecimal: 4.0mm)				(Character height: 2.8mm)	
Features		For medium Can be man with stoppe		For medium Hexadecima available Can be man with stopper	l models ufactured	• For medium	ı-size devices	• For medium large device • 50VAC or 3.3 • Can be mar	Mechanical durability: 100,000 operations min For medium-size and large devices SOVAC or 3.3 to 28VDC Can be manufactured with stoppers Mechanical durability: 2,000,000 operations min For medium and large devices 125VAC or 3.3 to 28VDC Can be manufactured with stoppers			• For PCBs in small devices
Installation	n method	One-step mounting (Front mounting)							One-step mounting (Front mounting)			Secured to panel with PCB.
Terminals				Solder T	erminals			Solder Terminals				PCB Terminals
Dust resista	ance	Yes (IP50)							Yes (IP50)		Yes (simple dust resistance)
Case color		Light gray	Black	Light gray	Black	Light gray	Black	Light gray	Black	Light gray	Black	Black
	03 (decimal code)	_	_	-	_	-	_	A7PS-203	A7PS-203-1	A7PH-203	A7PH-203-1	_
	06 (binary code decimal)	A7BL-206	A7BL-206-1	A7BS-206	A7BS-206-1	A7BS-206-S	A7BS-206-S-1	A7PS-206	A7PS-206-1	A7PH-206	A7PH-206-1	A7MD-106-P-09
Switch	O7 binary coded decimal, with component- adding provision	A7BL-207	A7BL-207-1	A7BS-207	A7BS-207-1	A7BS-207-S	A7BS-207-S-1	A7PS-207	A7PS-207-1	A7PH-207	A7PH-207-1	_
units according to output codes	decimal code, with component-adding provision	-	_	_	_	_	_	A7PS-219	A7PS-219-1	-	_	_
	54 binary coded hexadecimal	-	_	A7BS-254	A7BS-254-1	_	_	A7PS-254	A7PS-254-1	A7PH-254	A7PH-254-1	_
	55 binary coded hexadecimal, with component-adding provision	_		A7BS-255	A7BS-255-1	_		A7PS-255	A7PS-255-1	_		_
End caps		A7B-M	A7B-M-1	A7B-M	A7B-M-1	A7B-M	A7B-M-1	A7P-M	A7P-M-1	A7P-M	A7P-M-1	A7MD-1M
Spare unit		A7B-PA	A7B-PA-1	A7B-PA	A7B-PA-1	A7B-PA	A7B-PA-1	A7P-PA	A7P-PA-1	A7P-PA	A7P-PA-1	A7MD-PA
Connector	Solder terminals			A7	B-C				NRT-C/	NRT-CN		_
Connector	PCB terminals			A7E	B-CP				NR ⁻	T-CP		_

Note 1: The A785 can be manufactured in PCB-mounting models.

Note 2: Only basic specifications are provided in the table. Always refer to the specified pages for detailed specifications and to precautions before attempting to use the product.

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