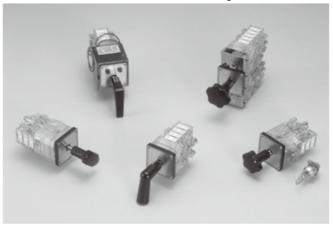
# ●CONTROL SWITCH

CAM-OPERATED SWITCH

### B TYPE, BH TYPE



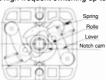
#### INDEX FOR B / BH TYPE CAM-OPERATED SWITCH

Item	Item Page		Page	Item	Page
Features	A1	Handle code	Handle code A6		A27 to 30
Specifications / Breaking Capacity	A2	Standard Specifications	A7 to 11	Contact Arrangement of Standard Switches	A31 to 48
How to Order	А3	Special Specifications	A12 to 22	Accessories	A49 to 50
Notch code	A4 to 5	Mounting Hole Dimensions	A23	Nameplates	A51 to 54
Contact code	<b>A</b> 5	Contact Arrangement Diagram	A24 to 26	Technical Information	A55 to 56

#### **FEATURES**

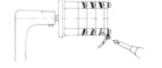
#### Heavy-duty mechanical durability against high-frequent switching

Since the optimal layout of components and by using materials with high wear resistance for the mechanical section, it can be provides accurate operation feeling and durability against high-frequent switching up to 5 million times



#### ■The terminal arrangement greatly improves wiring efficiency

No up-screw terminal is adopted. It can be quickly wired from the back for the alternate terminal arrangement.

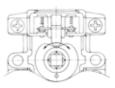


#### Campability both compact body and high breaking capacity and yet greatly improved breaking capacity

Larger breaking capacity of the switches generally requires that the main body enlargment. However, Fuji's control switches has achieved downsizing while increasing the breaking capacity. This breakthrough has been made possible by optimally

designing the cam shapes and the angle of the movable contact parts for obtaining max. switching speed mechanically. This allows you to determine the setting values (voltage and

current) with allowance.



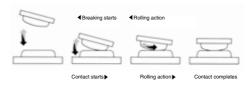
#### ■High-performance engineering plastics ensure high quality and high reliability

For the body, polycarbonate resin is used, which has a high level of performance among engineering plastics. The material greatly improves strength and resistance against environment (temperature, humidity, vibrations, etc.), which are particularly important for the applications related to heavy electric machineries. The contacts and mechanical parts are transparent to facilitate checking the contacting part.



### ■Rolling action of contact mechanism improves contact stability

In the contact mechanism, the movable contact makes contact with the stationary contact at one point and then gradually increases the contact area while rolling on it. This rolling action minimizes the part exposed to the arc that is generated at the first contact or breaking, thereby maintaining much higher contact stability than the former product.



#### **SPECIFICATIONS (RATINGS, PERFORMANCE)**

Specification Type	В ТҮРЕ	ВН ТҮРЕ			
Rated insulation voltage (Ui)	600V				
Rated current-carrying capacity (lth)	20A				
Max. wire size	5.5mm²				
Screw size	M4×9				
Withstand voltage	2,500V A	2,500V AC / 1 min.			
Lightning impulse	±7kV (1.2 / 50μs)				
Contact resistance	50mΩ or less				
Mechanical life	5,000,000 operations or more, Class 1				
Electrical life	500,000 operations or more, Class 1				
Shock resistance	500m/s <sup>2</sup> or more (6 directions)				
Vibration resistance	Range of vibration : 10 to 150Hz, Accelera	Range of vibration: 10 to 150Hz, Acceleration: 20m/s², Time: 1 hour (3 directions)			
Min. power requirements	5V AC 500mA, 5V DC 100mA (operating environment must be good)				
Operating temperature	–20 to 60°C				
Storing temperature	–40 to 70°C				
Altitude	2,000 m or less				

#### ■Breaking capacity [electrical life of 500,000 operations (class 1)]

	AC		DC				
		Rated operating current (inductive load) (A)			Rated operating current (inductive load) (A)		2 contacts used in series Rated operating current (inductive load) (A)
110	20	15	24	15	10	20	20
220	15	10	48	10	6	18	15
440	4	3	110	3	1.5	4.5	4
			220	1.2	0.8	2	1.5

<sup>\*</sup> Inductive load: For AC: Power factor 0.6 to 0.7 (Class: AC11)

For DC: Time constant 40±6 ms (Class: DC12)



#### **HOW TO ORDER**

1) Type (There's contact arrangement at diagram)

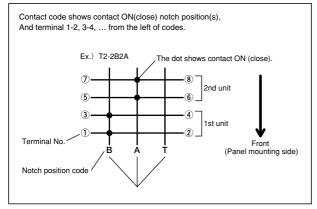
## BH-T2002-LD-B54-000

2 Type (There's no contact arrangement at diagram)

No.	Item	Code	Detail		Note	
_	Danis have	В	Screw side is up / down			
1	Basic type	BH	Screw side is right /	left	There are exceptions.	
2	Contact arrangement	Please see	page A31 for contact a	rrangement diagram.		
3	Notch code	Please see page A4 to 5 for mechanical operation method.			_	
4	No. of units	1~	No. of units		Max. unit No. varies from notch and type of switches.	
(5)	No. of contacts		1 ~ No. of contacts		1 unit has 2 contacts. (There is only 1 contact in 1	
(9)	No. of contacts	'~			unit in some cases.)	
(6)	Contact code	Diagon one	name AF for Contact of	a da	About representation of contact code, please refer to	
0	Contact code	Please see page A5 for Contact code.			the following picture.	
7	Handle code	Please see page A6 for Handle code.			_	
		Munsell color code		color code		
(8)	Color of		Handle	Flange		
	handle / flange	В	N1.5	N1.5	_	
		BG	7.5BG3/3.5	7.5BG4/1.5		
(9)	Nameplate	Please see page A51 to 54 for Nameplate.		monloto	Please select a nameplate No., when the nameplate	
9	Ivamepiate	Flease see page AST to 54 for Nameplate.			No. is not specified, plain nameplate is attached.	

For the type that corresponding to the all kinds of standard, please contact us separately.

#### About No. of contacts / Contact code



B type ... Screw side is up / down



BH type ... Screw side is right / left

