

SPECIAL SPECIFICATION SWITCH CODING FOR ORDERING

1

Key handle type

A key is used as the handle.

- Available notch : S, H, T, F, E
- Max. unit No. is 4. There are exceptions.
- C-88 and C-110 that made by Takigen is used. No. K6510 of C-88 is a standard key.
- Please see page A14 for information of key system.

1) C-88 key (Not available for master key system)

B-KMC-H2-2B2A-B NUKI B C-88 K6510

Code	Switch	No. of units	No. of contacts	Contact code	Notch code	Color of handle / flange	Key lock position	Key type	Key No.
B-KMC	B type							C-88	K6510 - K6520
BHO	BH type								

2) C-110 key (Available for master key system)

B-KMC-H2-2B2A-B NUKI B C-110 (AAA111) FUJI13

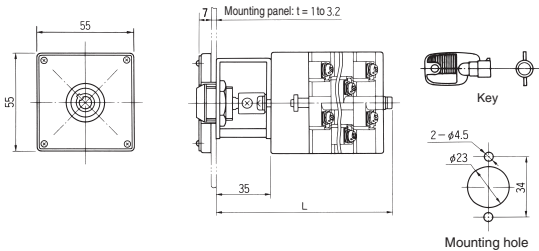
Code	Switch	No. of units	No. of contacts	Contact code	Notch code	Color of handle / flange	lock position	Key type	*Master key No.	Key No. (change key)
B-KMC	B type							C-110		
BHO	BH type									

Available character for master key No. / key No. (change key)	Master key No.	Within 6 (7 for number only)
Max. number of character	Key No.	Within 7
Available character	Number (0 - 9), Alphabet (A - Z)	
	=Blank is not available.	

OUTLINES

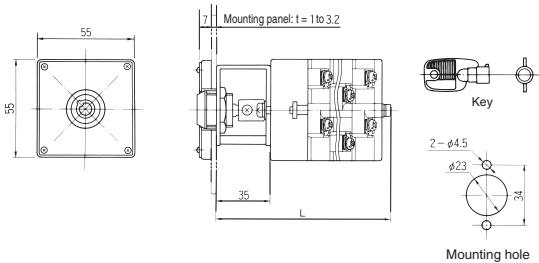
B-KMC

(B type) * The screw side is on the right/left in this type. In case of B type, it's generally on the up/down.



BHO

(BH type) * The mounting hole is on the vertical in this type. In case of BH type, it's generally on the horizontal.



Key lock position				
S	H	T	F	E
NUKI C	NUKI A	NUKI A	NUKI A	NUKI T
NUKI B	NUKI B	NUKI T	NUKI F	NUKI F

The key is used to directly operate the switch.
For the key, please see the specifications of the key.
If the another key lock position is needed, please contact us.
* 'NUK1' means key lock position.

No. of units	1	2	3	4
L (mm)	78	91	104	117

- *The standard key is C-88 (Takigen). If the master key is needed, please request us.
- C-110 (Takigen) key is provided as a master key.
- *Exclusive cover which a resin molded for the key also available. It cannot be install at a later time.



CAM-OPERATED SWITCH

B TYPE, BH TYPE

SPECIAL SPECIFICATION SWITCH CODING FOR ORDERING

2**Cylinder key type**

Locked with an insert key. To open / close the switch, unlock the key and then operate the handle.

1) C-88 key (Not available for master key system)**B-KM-H2-2B2A-LD-B NUKI B C-88 K6510**

Notch code			No. of units		Handle code		Key lock position		Key No.	
Code	Switch	Key position	Contact code		Key type		Key No. - K6520		Standard	
B-KM	B type	Right	No. of contacts		C-88		Not available for master key system		Specified No.	
BHC	BH type	Bottom	Color of handle / flange							

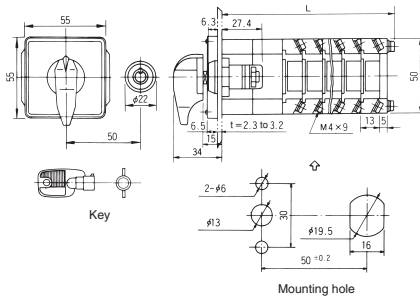
- Available notch : S, H, T, F, E, K, W, and SB.
- Max. unit No. is 10.
- There are exceptions.
- C-88 and C-110 that made by Takigen is used. No. K6510 of C-88 is a standard key.
- Please see page A14 for information of key system.

2) C-110 key (Available for master key system)**B-KM-H2-2B2A-LD-B NUKI B C-110 (AAA111) FUJI13**

Notch code			No. of units		Handle code		Key lock position		Key No.	
Code	Switch	Key position	Contact code		Key type		Key No. - K6520		Standard	
B-KM	B type	Right	No. of contacts		C-110		Available for master key system		Specified No.	
BHC	BH type	Bottom	Color of handle / flange							

*Master key No.			Key No. (change key)		
* Available character for master key No. / key No. (change key)					
Max. number of character	Master key No.	Key No.	Within 6 (7 for number only)	Within 7	
Available character			Number (0 - 7), Alphabet (A - Z)		
			*Blank is not available.		

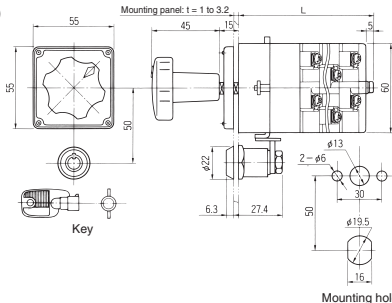
OUTLINES

B-KM**(B type)****Key lock position**

S/SB	H	T	F	E	K
NUKI C	NUKI BA	NUKI BA NUKI BT NUKI AT NUKI BAT	NUKI BATF	NUKI BATFE	NUKI DPK
NUKI B	NUKI A	NUKI B NUKI A NUKI T			

Key lock position

Normally, the key removal position is upside.

BHC**(BH type)**

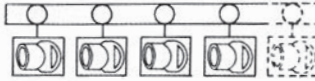
No. of units	1	2	3	4	5	6	7	8
L (mm)	64	77	90	103	116	129	142	155

- *The standard key is C-88 (Takigen). If the master key is needed, please request us. C-110 (Takigen) key is provided as a master key.
- *Exclusive cover which a resin molded for the key also available. It cannot be install at a later time.

KEY SYSTEM

■C-88 type

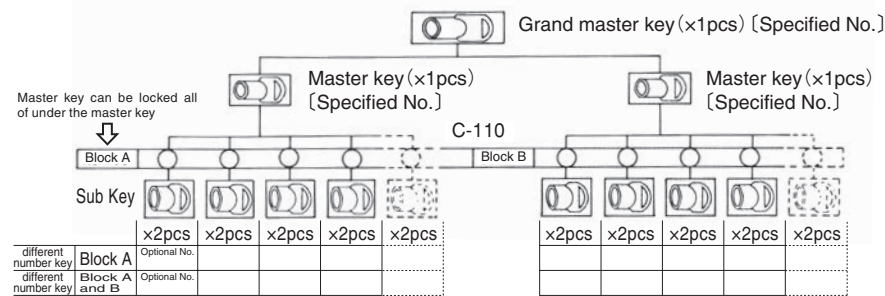
[Master key is disused]

							
same number key	K6510 only	0 type	x2pcs	x2pcs	x2pcs	x2pcs	x2pcs
			K6510	K6510	K6510	K6510
different number key	K6511 to K6520		K6511	K6512	K6513	K6514

●Special character keys also available. Please see "Available character for key No."

■C-110 type

[Master key is needed]



- Key will be decided depends on a decision that a common use with door lock or the master key is needed or not.
- In the case of C-110, if the master key specified No. and sub key specified No. are selected, the master key can be possible to lock the sub key.
- It's not available to make an additional subkey, because of the relationship between masterkey and subkey are already decided at the stage at manufacture.
- Life time of the key is 10,000 times. (Insertion - Extraction)

■Available character for master key No. / key No. (change key)

Max. number of character	Master key No.	6 (7 for number only)
	Key No.	7
Available character	Number (0 - 9), Alphabet (A - Z) *Blank is not available.	



CAM-OPERATED SWITCH

B TYPE, BH TYPE

SPECIAL SPECIFICATION SWITCH CODING FOR ORDERING

3

Switch with padlock mechanism

Locked with a padlock. To open / close the switch, unlock the padlock and then open / close the key while pushing or pulling the unlocking lever.

B-KH-H2-2B2A-LD-B NUKI B

Code	Switch	Unlocking lever type	No. of contacts	Contact code	Color of handle / flange	Key lock position
B-KH	B type	Pushing type				
BHP	BH type	Pulling type				

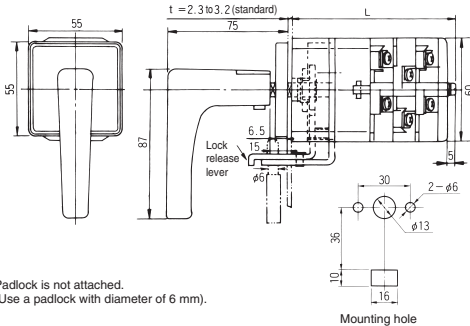
Notch code

- Available notch : S, H, T, F, and SB.
- Max. unit No. is 10. There are exceptions.
- Normally a padlock is attached to the down side of the switch.
- Padlock is not attached.
- Please use a padlock with diameter of 6 mm.

OUTLINES

B-KH

(B type) * The screw side is on the right/left, and the mounting hole is on the horizontal in this type.
In case of B type, generally the screw side is on the up/down, and the mounting hole is on the vertical.



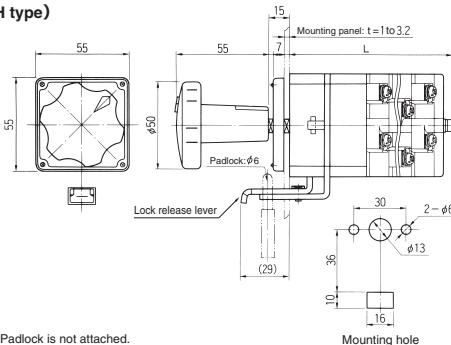
* Padlock is not attached.
(Use a padlock with diameter of 6 mm).

Key lock position

S	H	T	F	E	K
NUK/C	NUK/BA NUK/B NUK/A	NUK/BA NUK/BT NUK/AT NUK/BAT NUK/B NUK/A NUK/T	NUK/BATF	NUK/BATFE	NUK/DPK

BHP

(BH type)



* Padlock is not attached.
(Use a padlock with diameter of 6 mm).

○ Remove the padlock and push the lock release lever for handle operation. The switch will be locked automatically after releasing your hand, then please lock with a padlock.

No. of units	1	2	3	4	5	6	7	8
L (mm)	67	80	93	106	119	132	145	158

4

High-frequent type switch

This cam switch is designed for high-frequent heavy-duty uses, in iron manufacture and chemical plants, etc.

BM-H2001-LD-B

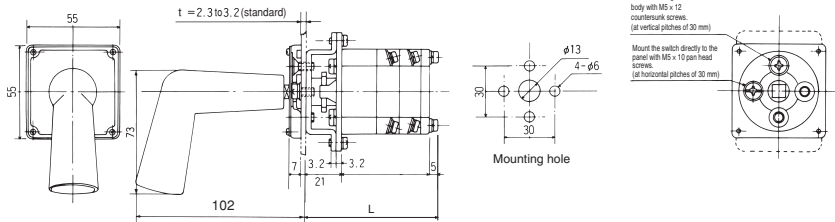
Contact arrangement		Handle code	Color of handle / flange
Code	Switch		
BM	B type		
BHM	BH type		

- Available notch : S, H, T, F, and SB. The 30° version is also available.
- Please select BC (B type) or BCH (BH type) in case of 305S, 307S, 454S, 454SR, and 455S.
- High-frequent operation type.

OUTLINES

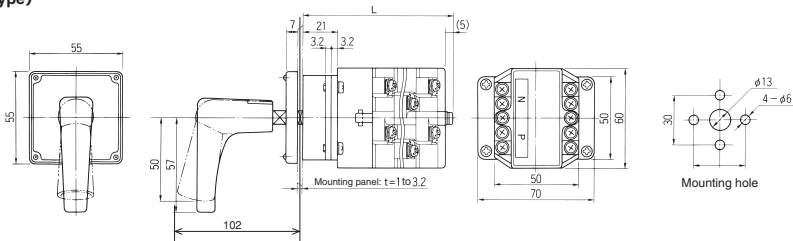
BM

(B type)



BHM

(BH type)



No. of units	1	2	3	4	5	6	7	8	9
L (mm)	65	78	91	104	117	130	143	156	167



CAM-OPERATED SWITCH

B TYPE, BH TYPE

SPECIAL SPECIFICATION SWITCH CODING FOR ORDERING

5**Switch with indicator lamp (separate)**

This is a switch that an indicator lamp is attached on top.
An indicator mounting hole is additionally required.

Part of lamp display

BL-H2001-215-LD-B

Code	Switch	Contact arrangement	Circuit	Display color	Color of handle / flange
BL	B type				
BH1	BH type				

Voltage Handle code

●The notches and specification are the same as those of the standard switches.

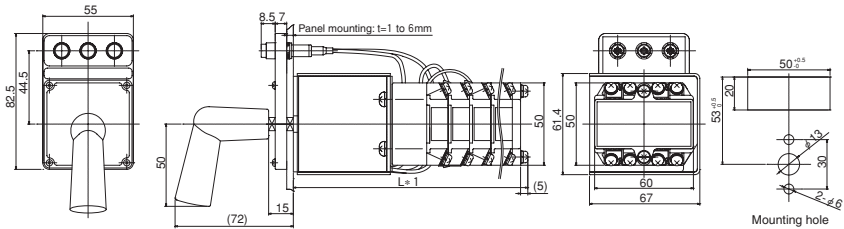
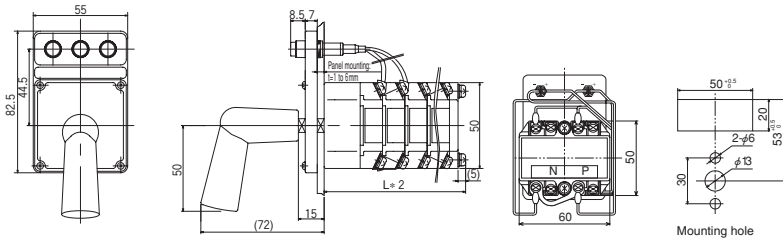
●For the circuit, voltage, and display color of the indicator, please see the following table and specify the corresponding numbers.

Circuit	Voltage	Display color
1 For 1 indicator lamp	1 24V DC	1 W (Milky white)
2 For 2 indicator lamps	2 48V DC	2 R (Red)
3 For 3 indicator lamps	3 100 / 110V DC	3 G (Green)
	4 125V DC	4 O (Orange)
	5 100 / 110V AC	5 GR
	6 200 / 220V AC	6 GWR
	7 30V DC	7 GOR
9 Special	9 Special	9 Special

OUTLINES

BL

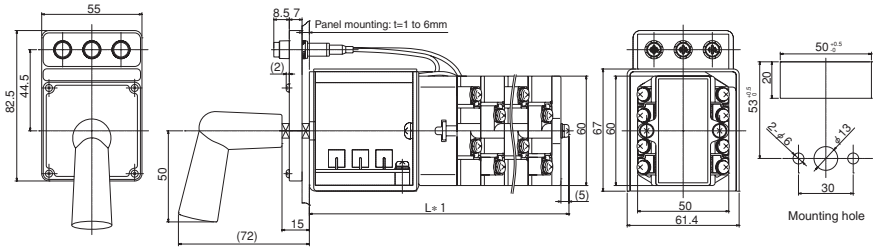
(B type)

Standard specification**24V specification**

BHI

(BH type)

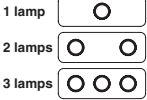
Standard specification



Standard specification

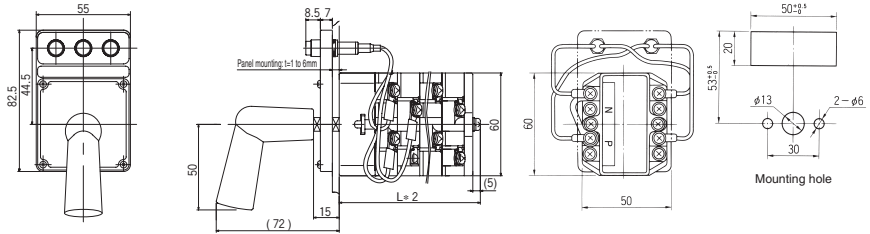
L (mm) *1	Circuit (lamp)	1P	2P	3P	4P	5P	6P	7P	8P	9P	10P
	For 1 indicator lamp	116	129	142	155	168	181	194	207	220	233
	For 2 indicator lamps										
	For 3 indicator lamps	129	142	155	168	181	194	207	220	233	246

●Lamp position



* The lamp power supply unit is not included into the number of units above.
* Notch and contact configuration may limit the number of the units.

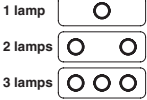
24V specification



24V specification (Dimensions change because no resistance is needed.)

L (mm) *2	Circuit (lamp)	1P	2P	3P	4P	5P	6P	7P	8P	9P	10P
	For 1 indicator lamp	56	69	82	95	108	121	134	147	160	173
	For 2 indicator lamps										
	For 3 indicator lamps	69	82	95	108	121	134	147	160	173	186

●Lamp position



* The lamp power supply unit is not included into the number of units above.
* Notch and contact configuration may limit the number of the units.



CAM-OPERATED SWITCH

B TYPE, BH TYPE

SPECIAL SPECIFICATION SWITCH CODING FOR ORDERING

6

Switch with indicator lamp (built-in)

This is a switch that a signal indicator is attached on top.

Part of lamp display

BHS-S2001-235-LP-B

Code	Switch	Contact arrangement	Circuit	Handle code	Display color	Color of handle / flange
BHS	BH type					
BHS-B	BH type (with rear terminal block)					

● Available notch: S, H, T, F and SB, SR, SY also available.

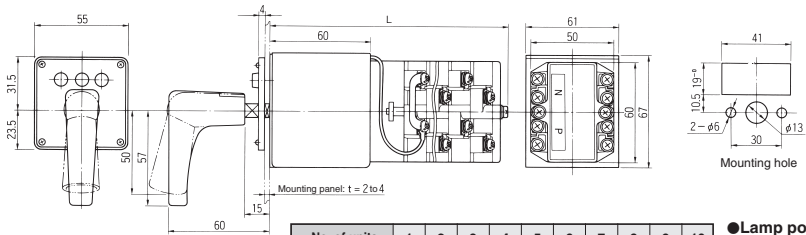
● For the circuit, voltage, and display color of the indicator lamp, please see the following table and specify the corresponding numbers.

Circuit	Voltage	Display color
1: For 1 indicator lamp	1: 24V DC	1: W (Milky white)
2: For 2 indicator lamps	2: 48V DC	2: R (Red)
3: For 3 indicator lamps	3: 100 / 110V DC	3: G (Green)
	4: 125V DC	4: O (Orange)
	5: 100 / 110V AC	5: GR
	6: 200 / 220V AC	6: GWR
	7: 30V DC	7: GOR
9: Special	9: Special	9: Special

OUTLINES

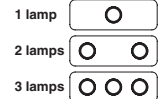
BHS

(BH type)



No. of units	1	2	3	4	5	6	7	8	9	10
L (mm) For 1 indicator	116	129	142	155	168	181	194	207	220	233
L (mm) For 2 indicators	129	142	155	168	181	194	207	220	233	246
L (mm) For 3 indicators	142	155	168	181	194	207	220	233	246	259

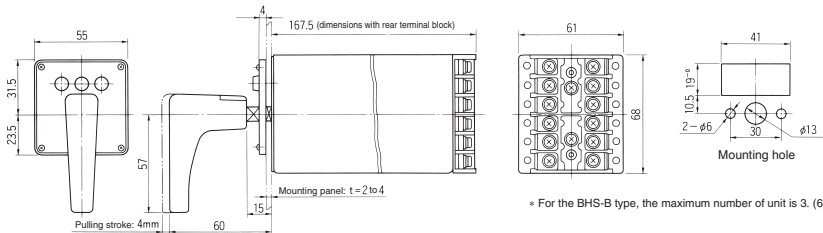
● Lamp position



With indicator lamp (built-in) and rear terminal block type

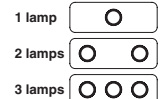
BHS-B

(BH type)



* For the BHS-B type, the maximum number of unit is 3. (6 contacts)

● Lamp position



7

Lockout relay switch (Coil type)

- Please see page A57 for the operation time.
- Max. unit No. is 8.

BA-6 2A2B-DC24V-LP-B

Code	Switch
BA-6	B type
BHE	BH type

Contact code
No. of contacts

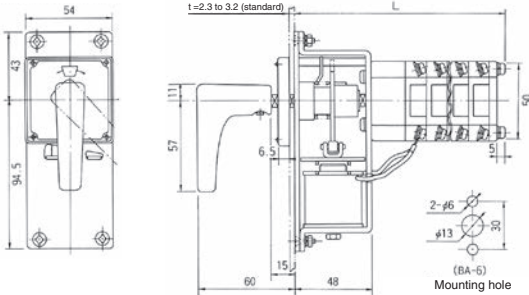
Code	Operation voltage	Code	Operation voltage
DC24V	24V DC	DC220V	200 / 220V DC
DC48V	48V DC	AC110V	100 / 110V AC
DC110V	100 / 110V DC	AC220V	200 / 220V AC
DC125V	125V DC		

Handle code Color of handle / flange

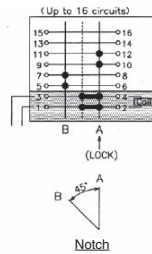
OUTLINES

BA-6

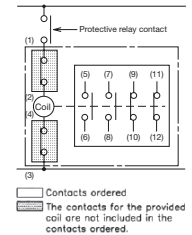
(B type)



Example of circuit



Example of usage

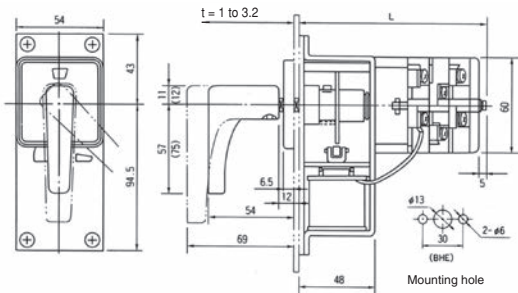


<Features and application>

The coil is of instantaneous rating, requiring that the self — contact be connected in series to the coil as illustrated.

BHE

(BH type)



Circuit voltage	24V DC	48V DC	100 / 110V DC	125V DC	200 / 220V DC
Coil resistance	5.3 Ω	25 Ω	55 Ω	80 Ω	350 Ω

No. of units	1	2	3	4	5	6	7	8
L (mm)	104	117	130	143	156	169	182	195



CAM-OPERATED SWITCH

B TYPE, BH TYPE

SPECIAL SPECIFICATION SWITCH CODING FOR ORDERING

8

Lockout relay switch (Solenoid type)

- Max unit No. is 10.
- A-G: High speed operation type.
- H-J: Normal operation type
- 10 types of coils are available.

B-MR-2001-B-LP B

		Contact arrangement		Handle code		Color of handle / flange						
Code		Operation method		Coil code		A	B	C	D	E	F	G
MR		Manual reset		Operation voltage (V)		DC24	DC100/110	DC125	DC200/220	AC100/110	AC200/220	DC48
				Coil code		H	I		J			
				Operation voltage (V)		DC125	AC·DC100/110		AC·DC200/220			
Code		Switch										
B			B type									
BH			BH type									

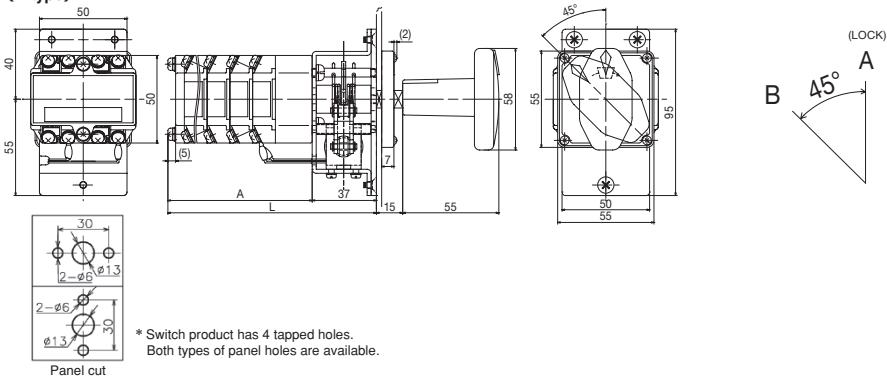
* Please see page A22 for coil rating.

* Please see page A22 for coil rating.

OUTLINES

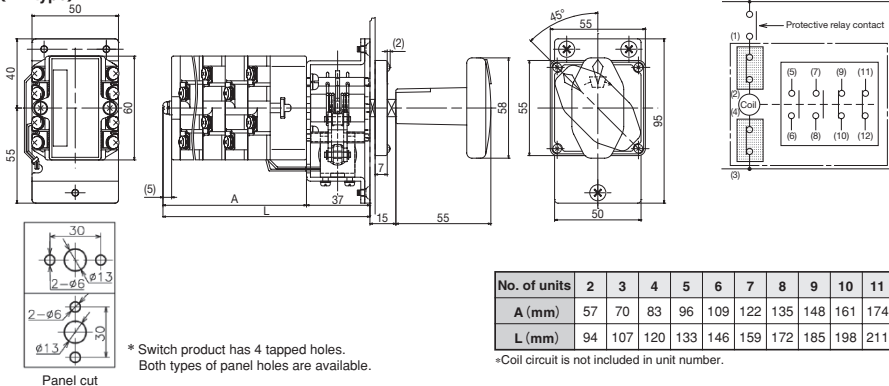
B-MR

(B type)



BH-MR





(BH type)



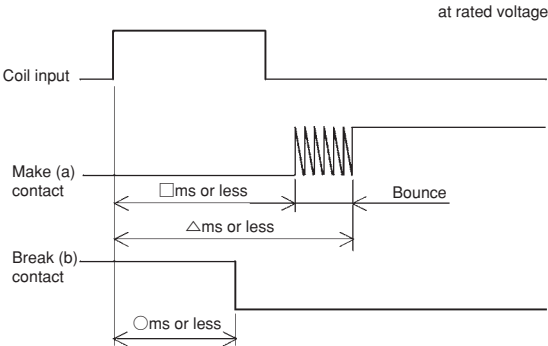
No. of units	2	3	4	5	6	7	8	9	10	11
A (mm)	57	70	83	96	109	122	135	148	161	174
L (mm)	94	107	120	133	146	159	172	185	198	211

*Coil circuit is not included in unit number.

Coil rating

No.	Item	Detail										
1	Coil code	A	B	C	D	E	F	G	H	I	J	
2	Operation voltage (V)	DC24	DC100/110	DC125	DC200/220	AC100/110	AC200/220	DC48	DC125	AC-DC100/110	AC-DC200/220	
3	Coil resistance (Ω)	3.3	16.5	27	60	16.5	60	13	75	60	240	
4	Current on operation (A)	7.3	6/6.6	4.6	3.3/3.6	6/6.6	3.3/3.6	3.7	1.7	1.7/1.8	0.8/0.9	
5	Operation voltage range (V)	MAX	DC28	DC143	DC140	DC286	AC143	AC286	DC56	DC140	DC143	DC286
		MIN	DC20	DC80	DC100	DC160	AC80	AC160	DC40	DC100	DC80	DC160
6	Minimum operation voltage (V)	20	40	50	80	50	90	40	100	80	160	
7	Make (a) contact operation time (ms or less) Refer to *3	 Hard①	10	8	8	8	14	14	10	30		
		 Soft②	12	10	10	10	16	16	12			
		 Hard③	16	16	16	16	18	18	16			
8	Break (b) contact operation time (ms or less)	 Soft④	8							28		
9	Continuous application limit to coil (s or less)	10	Impossible of continuous application							10		

Time chart



* □: Make contact (a) operation time without bounce
△: Make contact (a) operation time including bounce
○: Break contact (b) operation time

Handle

Handle ①	LDP	LD	HDP	HD	LFP	LF
	HFP	HF	LS	LE	HE	-
Handle ②	LP	HP	MP	HR	HSP	USP

Operation method and caution

Operation method

- ①Coil input makes lockout from A to B position.
- ②Manual rotation from B to A position makes lockon. (reset operation)

[Caution]

Reset operation on existence of external signal to coil is prohibited. This may cause severe malfunction. (Ex. Coil burnout)



CAM-OPERATED SWITCH

B TYPE, BH TYPE

SPECIAL SPECIFICATION SWITCH CODING FOR ORDERING

9

Minute current switch (BY)

This switch is used in the applications requiring environmental resistance or using minute electric current.

BY-H2-2BX2AX-LD-B

Code	Switch	No. of contacts	Handle code	Color of handle / flange
BY	B type	No. of units	Contact of minute current switch (Ends with "X")	
BHY	BH type	Notch code		

* Outline is same as standard B / BH type.

- For the specification, please see technical data on A58.
- The notches are the same as those of the standard switches.
- For a contact, X is added to the standard contact symbol like AX.
- This switch can be assembled within a switch with standard contacts. However, the units for the contacts of the minute current is exclusive unit.

Ex.) BY-H2-2BX2A

Standard contact
Minute current contact

- In case of lapping contact, L (Minute current lapping contact) is added after X (Minute current contact).

Ex.) BY-H2-2BXL2A

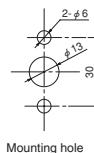
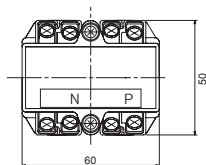
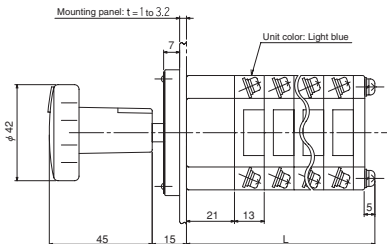
Standard contact
Minute current lapping contact

- Minute current contact is applicable to other standard products.

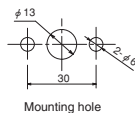
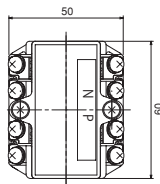
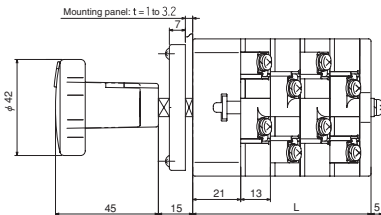
Ex.) BHY-H2-2BX2AX

OUTLINES

BY



BHY



10

Rear terminal type switch

Since the terminal part is arranged to the rear side, it's possible to use the space effectively.

- It's possible to choose any notches except pull (push) type.

BH-B-H2001-LD-B

Basic type

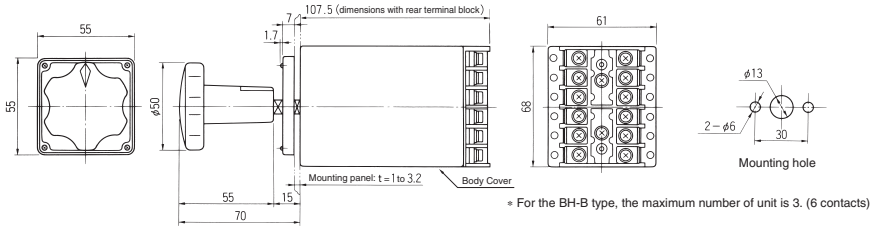
Contact arrangement

Handle code

Color of
handle / flange

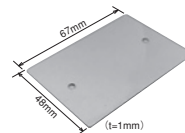
OUTLINES

BH-B



Terminal cover

- BHS back terminal cover



Supplied screws: SUS nabe tappi2 M3×6
(Attachments)