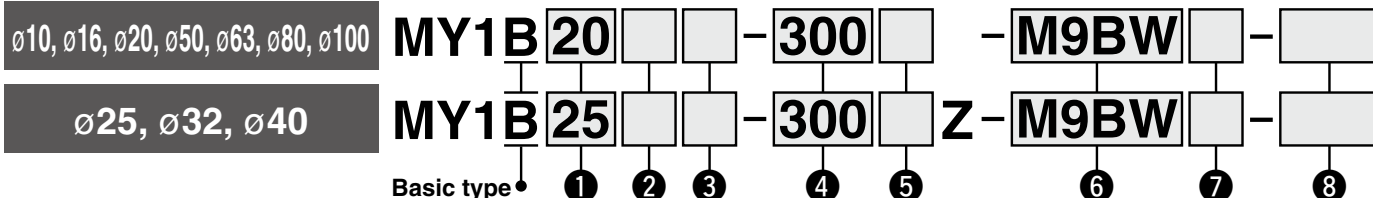


# Mechanically Jointed Rodless Cylinder Basic Type

## MY1B Series

ø10, ø16, ø20, ø25, ø32, ø40, ø50, ø63, ø80, ø100

### How to Order



#### ① Bore size

10	10 mm
16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm
80	80 mm
100	100 mm

#### ② Port thread type

Symbol	Type	Bore size
Nil	M thread	ø10, ø16, ø20
	Rc	ø25, ø32, ø40, ø50, ø63, ø80, ø100
TN	NPT	ø50, ø63, ø80, ø100
TF	G	ø100

#### ③ Piping

Nil	Standard type
G	Centralized piping type

\* For ø10, only G is available.

#### ④ Cylinder stroke [mm]

Bore size	Standard stroke*1	Long stroke	Maximum manufacturable stroke
10, 16	100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000	Strokes of 2001 to 3000 mm (1 mm increments) exceeding the standard stroke	3000
20, 25, 32, 40, 50, 63, 80, 100	*1 The stroke can be manufactured in 1 mm increments from 1 mm stroke.	Strokes of 2001 to 5000 mm (1 mm increments) exceeding the standard stroke	5000

Ordering example

\* Long stroke can be ordered the same as the standard stroke. MY1B20-3000L-M9BW

\* Please be advised that with a stroke of 49 mm or less, there are cases where auto switch mounting is not possible, and the performance of the air cushion may decline.

#### ⑤ Stroke adjustment unit symbol

For stroke adjustment units, refer to page 18.

#### ⑥ Auto switch

Nil	ø10	Without auto switch (Built-in magnet for reed switch)
		Without auto switch (Built-in magnet for solid state switch) (Made to order: -X1810)
	ø16 to ø100	Without auto switch (Built-in magnet)

\* Refer to the table below for the applicable auto switch model.

Applicable auto switches vary depending on the bore size. Select an applicable one referring to the table below.

#### ⑦ Number of auto switches

Nil	2
S	1
n	n

#### ⑧ Made to Order Made to Order Common Specifications (For details, refer to page 114.)

Symbol	Specifications
-XB22	Shock absorber soft type RJ series mounted
-XC67*1	NBR rubber lining in dust seal band
-X168	Helical insert thread specifications
-X1810	Magnet for ø10 solid state auto switch specifications

\*1 Only ø16, ø20, ø50, and ø63 are available for the -XC67.

### Applicable Auto Switches/Refer to the Web Catalog for further information on auto switches.

Type	Special function	Electrical entry	Indicator/light	Wiring (Output)	Load voltage		Auto switch model				Lead wire length [m]				Pre-wired connector	Applicable load						
					DC	AC	Perpendicular		In-line		0.5 (Nil)	1 (M)	3 (L)	5 (Z)								
							ø10 to ø40	ø50 to ø100	ø10 to ø40	ø50 to ø100												
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	—	5 V, 12 V	M9NV [Y69A]*3	M9N [Y59A]*3	●	●	○	○	IC circuit	Relay, PLC							
				3-wire (PNP)						●	●	○	○									
				2-wire						●	●	○	○									
				3-wire (NPN)						●	●	○	○									
				3-wire (PNP)						●	●	○	○									
				2-wire						●	●	○	○									
	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	—	5 V, 12 V	M9NWV [Y7NWV]*3	M9NW [Y7NW]*3	●	●	○	○	IC circuit	Relay, PLC							
				3-wire (PNP)						●	●	○	○									
				2-wire						●	●	○	○									
				2-wire						●	●	○	○									
Water resistant (2-color indicator)	Grommet	Yes	3-wire (NPN)	24 V	—	5 V, 12 V	M9NAV [—]*1,3	M9NA [—]*1,3	○	○	●	○	IC circuit	Relay, PLC								
			3-wire (PNP)						○	○	●	○										
			2-wire						○	○	●	○										
			2-wire						○	○	●	○										
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	24 V	—	5 V	A96V	—	A96	Z76	●	—	●	—	IC circuit	Relay, PLC					
				2-wire								100 V	A93V*2	—	A93			Z73	●	●	●	●
				2-wire															100 V or less	A90V	—	A90

\*1 Water-resistant type auto switches can be mounted on the above models, but SMC cannot guarantee water resistance.

Please contact SMC regarding water-resistant types with the above model numbers.

\*2 The 1 m lead wire is only applicable to the D-A93.

\*3 D-M9□□□ type cannot be mounted on ø50. Select auto switches in brackets.

\* For details on auto switch mounting brackets and part numbers, refer to page 112.

\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NW 3 m ..... L (Example) M9NWL  
1 m ..... M (Example) M9NWM 5 m ..... Z (Example) M9NWZ

\* Solid state auto switches marked with "○" are produced upon receipt of order.

\* Since there are applicable auto switches other than those listed above, refer to page 112 for details.

\* Auto switches are shipped together with the product but do not come assembled.

# Mechanically Jointed Rodless Cylinder Slide Bearing Guide Type

## MY1M Series

ø16, ø20, ø25, ø32, ø40, ø50, ø63

### How to Order

Slide bearing guide type **MY1M** **20** **G** - **300** - **M9BW** -

Slide bearing guide type • ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

#### ① Bore size

16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

#### ② Port thread type

Symbol	Type	Bore size
Nil	M thread	ø16, ø20
	Rc	ø25, ø32,
TN	NPT	ø40, ø50,
TF	G	ø63

#### ③ Piping

Nil	Standard type
G	Centralized piping type

#### ④ Cylinder stroke [mm]

Bore size	Standard stroke*1	Long stroke	Maximum manufacturable stroke
16	100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000	Strokes of 2001 to 3000 mm (1 mm increments) exceeding the standard stroke	3000
20, 25, 32, 40, 50, 63	*1 The stroke can be manufactured in 1 mm increments from 1 mm stroke.	Strokes of 2001 to 5000 mm (1 mm increments) exceeding the standard stroke	5000

Ordering example

\* Long stroke can be ordered the same as the standard stroke. MY1M20-3000L-M9BW

\* Please be advised that with a stroke of 49 mm or less, there are cases where auto switch mounting is not possible, and the performance of the air cushion may decline.

#### ⑤ Stroke adjustment unit symbol

For stroke adjustment units, refer to page 44.

#### ⑥ Auto switch

Nil	Without auto switch (Built-in magnet)
-----	---------------------------------------

Applicable auto switches vary depending on the bore size. Select an applicable one referring to the table below.

#### ⑦ Number of auto switches

Nil	2
S	1
n	n

#### ⑧ Made to Order Common Specifications

Refer to page 44 for details.

### Applicable Auto Switches/Refer to the Web Catalog for further information on auto switches.

Type	Special function	Electrical entry	Indicator/light	Wiring (Output)	Load voltage		Auto switch model				Lead wire length [m]				Pre-wired connector	Applicable load	
					DC	AC	Perpendicular		In-line		0.5 (Nil)	1 (M)	3 (L)	5 (Z)		IC circuit	Relay, PLC
							ø16, ø20	ø25 to ø63	ø16, ø20	ø25 to ø63							
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC circuit	Relay, PLC	
				3-wire (PNP)				M9PV	M9P	●	●	●	○	○			
				2-wire				M9BV	M9B	●	●	●	○	○			
				3-wire (NPN)				M9NWV	M9NW	●	●	●	○	○			
	Diagnostic indication (2-color indicator)			3-wire (PNP)	M9PWV	M9PW	●	●	●	○	○	IC circuit					
				2-wire	M9BWV	M9BW	●	●	●	○	○						
				3-wire (NPN)	M9NAV*1	M9NA*1	○	○	●	○	○		IC circuit				
				3-wire (PNP)	M9PAV*1	M9PA*1	○	○	●	○	○						
Water resistant (2-color indicator)	2-wire	M9BAV*1	M9BA*1	○	○	●	○	○	—								
	3-wire (NPN equivalent)	—	5 V	—	A96V	—	A96	Z76		●	—	●	—	—	IC circuit	—	
Reed auto switch	—	Grommet	No	2-wire	24 V	12 V	100 V	A93V*2	—	A93	Z73	●	●	●	●	—	Relay, PLC
				100 V or less	A90V	—	A90	Z80	●	—	●	—	—	—	—	IC circuit	PLC

\*1 Water-resistant type auto switches can be mounted on the above models, but SMC cannot guarantee water resistance. Please contact SMC regarding water-resistant types with the above model numbers.

\*2 The 1 m lead wire is only applicable to the D-A93.

\* For details on auto switch mounting brackets and part numbers, refer to page 112.

\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NW 3 m ..... L (Example) M9NWL  
1 m ..... M (Example) M9NWM 5 m ..... Z (Example) M9NWZ

\* Solid state auto switches marked with "○" are produced upon receipt of order.

\* Since there are applicable auto switches other than those listed above, refer to page 112 for details.

\* Auto switches are shipped together with the product but do not come assembled. (Refer to page 109 for the details of auto switch mounting.)

# Mechanically Jointed Rodless Cylinder Cam Follower Guide Type

## MY1C Series

∅16, ∅20, ∅25, ∅32, ∅40, ∅50, ∅63

### How to Order

Cam follower guide type

MY1C 25 [ ] [ ] - 300 [ ] - M9BW [ ] - [ ]

Cam follower guide type

1 2 3 4 5 6 7 8

#### 1 Bore size

16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm
63	63 mm

#### 2 Port thread type

Symbol	Type	Bore size
Nil	M thread	∅16, ∅20
	Rc	∅25, ∅32,
TN	NPT	∅40, ∅50,
TF	G	∅63

#### 3 Piping

Nil	Standard type
G	Centralized piping type

#### 4 Cylinder stroke [mm]

Bore size	Standard stroke*1	Long stroke	Maximum manufacturable stroke
16	100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1200, 1400, 1600, 1800, 2000	Strokes of 2001 to 3000 mm (1 mm increments) exceeding the standard stroke	3000
20, 25, 32, 40, 50, 63	*1 The stroke can be manufactured in 1 mm increments from 1 mm stroke.	Strokes of 2001 to 5000 mm (1 mm increments) exceeding the standard stroke	5000

Ordering example

\* Long stroke can be ordered the same as the standard stroke. MY1C20-3000L-M9BW

\* Please be advised that with a stroke of 49 mm or less, there are cases where auto switch mounting is not possible, and the performance of the air cushion may decline.

#### 5 Stroke adjustment unit symbol

For stroke adjustment units, refer to page 62.

#### 6 Auto switch

Nil	Without auto switch (Built-in magnet)
-----	---------------------------------------

Applicable auto switches vary depending on the bore size. Select an applicable one referring to the table below.

#### 7 Number of auto switches

Nil	2
S	1
n	n

#### 8 Made to Order Common Specifications

Refer to page 62 for details.

**Applicable Auto Switches**/Refer to the **Web Catalog** for further information on auto switches.

Type	Special function	Electrical entry	Indicator/light	Wiring (Output)	Load voltage		Auto switch model				Lead wire length [m]				Pre-wired connector	Applicable load
					DC	AC	Perpendicular		In-line		0.5 (Nil)	1 (M)	3 (L)	5 (Z)		
							∅16, ∅20	∅25 to ∅63	∅16, ∅20	∅25 to ∅63						
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	—	M9NV	M9N	●	●	●	○	○	IC circuit	Relay, PLC	
				3-wire (PNP)			M9PV	M9P	●	●	●	○	○			
				2-wire			M9BV	M9B	●	●	●	○	○			
				3-wire (NPN)			M9NWV	M9NW	●	●	●	○	○			
	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (PNP)	M9PWV	M9PW	●	●	●	○	○	○	○			
				2-wire	M9BWV	M9BW	●	●	●	○	○					
				3-wire (NPN)	M9NAV*1	M9NA*1	○	○	●	○	○					
				3-wire (PNP)	M9PAV*1	M9PA*1	○	○	●	○	○					
Water resistant (2-color indicator)	Grommet	Yes	2-wire	M9BAV*1	M9BA*1	○	○	●	○	○	○					
			3-wire (NPN equivalent)	A96V	—	A96	Z76	○	—	●	—	—				
Reed auto switch	—	Grommet	No	2-wire	24 V	12 V	A93V*2	—	A93	Z73	●	●	●	—	Relay, PLC	
							100 V or less	A90V	—	A90	Z80	●	—	●	—	—

\*1 Water-resistant type auto switches can be mounted on the above models, but SMC cannot guarantee water resistance.

Please contact SMC regarding water-resistant types with the above model numbers.

\*2 The 1 m lead wire is only applicable to the D-A93.

\* For details on auto switch mounting brackets and part numbers, refer to page 112.

\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NW  
1 m ..... M (Example) M9NWM  
3 m ..... L (Example) M9NWL  
5 m ..... Z (Example) M9NWX

\* Solid state auto switches marked with "○" are produced upon receipt of order.

\* Auto switch mounting brackets (BMG2-012) are separately required to retrofit auto switches (M9 type) on ∅25 to ∅63 cylinders.

\* Since there are applicable auto switches other than those listed above, refer to page 112 for details.

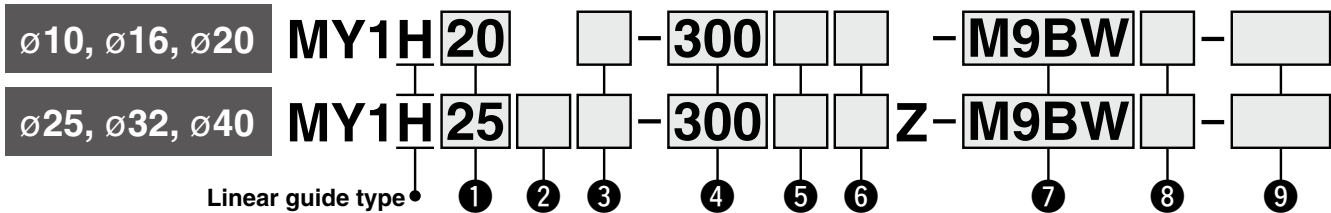
\* Auto switches are shipped together with the product but do not come assembled. (Refer to page 109 for the details of auto switch mounting.)

# Mechanically Jointed Rodless Cylinder Linear Guide Type

## MY1H Series

ø10, ø16, ø20, ø25, ø32, ø40

### How to Order



#### 1 Bore size

10	10 mm
16	16 mm
20	20 mm
25	25 mm
32	32 mm
40	40 mm

#### 2 Port thread type

Symbol	Type	Bore size
Nil	M thread	ø10, ø16, ø20
	Rc	
TN	NPT	ø25, ø32, ø40
TF	G	

#### 4 Cylinder stroke [mm]

Bore size	Standard stroke	Intermediate stroke	Long stroke	Maximum manufacturable stroke
10	50, 100, 150, 200, 250, 300	Strokes of 60 to 590 mm (10 mm increments) other than standard strokes	—	—
16, 20	350, 400, 450, 500, 550, 600	Strokes of 51 to 599 mm (1 mm increments) other than standard strokes	Strokes of 601 to 1000 mm (1 mm increments) exceeding the standard stroke	1000
25, 32, 40			Strokes of 601 to 1500 mm (1 mm increments) exceeding the standard stroke	1500

\* Long stroke is not available for MY1H10.

Ordering example

\* Intermediate stroke can be ordered the same as the standard stroke.

MY1H10-60-M9BW

\* Long stroke can be ordered the same as the standard stroke.

MY1H20-800L-M9BW

#### 3 Piping

Nil	Standard type
G	Centralized piping type

\* For ø10, only G is available.

#### 5 Stroke adjustment unit symbol

For stroke adjustment units, refer to on page 78.  
Intermediate fixing spacer is not available for end lock mounting side.

#### 6 End lock position

Nil	Without end lock
E	Right end
F	Left end
W	Both ends

\* MY1H10 is not available with end lock.

\* For end lock positions, refer to pages 92 and 93.

#### 7 Auto switch

Nil	ø10	Without auto switch (Built-in magnet for reed switch)
		Without auto switch (Built-in magnet for solid state switch) (Made to order: -X1810)
	ø16 to ø100	Without auto switch (Built-in magnet)

\* Refer to the table below for the applicable auto switch model.

#### 8 Number of auto switches

Nil	2
S	1
n	n

#### 9 Made to Order Common Specifications

Refer to page 78 for details.

### Applicable Auto Switches/Refer to the Web Catalog for further information on auto switches.

Type	Special function	Electrical entry	Indicator/light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length [m]					Pre-wired connector	Applicable load		
					DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	None (N)		IC circuit	Relay, PLC	
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	○	IC circuit	Relay, PLC	
				3-wire (PNP)			M9PV	M9P	●	●	●	○	○	○			
				2-wire	M9BV		M9B	●	●	●	○	○	○				
	Diagnostic indication (2-color indicator)			3-wire (NPN)	5 V, 12 V		M9NWV	M9NW	●	●	●	○	○	○	IC circuit		
				3-wire (PNP)			M9PWV	M9PW	●	●	●	○	○	○			
				2-wire	M9B WV		M9B W	●	●	●	○	○	○				
	Water resistant (2-color indicator)			3-wire (NPN)	5 V, 12 V		M9NAV*1	M9NA*1	○	○	●	○	—	○	IC circuit		
				3-wire (PNP)			M9PAV*1	M9PA*1	○	○	●	○	—	○			
				2-wire	M9BAV*1		M9BA*1	○	○	●	○	—	○				
Reed auto switch	—	Grommet	No	3-wire (NPN equivalent)	—	5 V	A96V	A96	●	—	●	—	—	—	IC circuit	—	
				2-wire	24 V	12 V	100 V	A93V*2	A93	●	●	●	●	—	—	—	Relay, PLC
							100 V or less	A90V	A90	●	—	●	—	—	—	—	IC circuit

\*1 Water-resistant type auto switches can be mounted on the above models, but SMC cannot guarantee water resistance.

Please contact SMC regarding water-resistant types with the above model numbers.

\*2 The 1 m lead wire is only applicable to the D-A93.

\* For details on auto switch mounting brackets and part numbers, refer to page 112.

\* Lead wire length symbols: 0.5 m ..... Nil (Example) M9NW 3 m ..... L (Example) M9NWL  
1 m ..... M (Example) M9NWM 5 m ..... Z (Example) M9NWZ

\* Solid state auto switches marked with "○" are produced upon receipt of order.

\* Since there are applicable auto switches other than those listed above, refer to page 112 for details.

\* Auto switches are shipped together with the product but do not come assembled. (Refer to page 110 for the details of auto switch mounting.)

# Mechanically Jointed Rodless Cylinder High Rigidity/Linear Guide Type

## MY1HT Series

∅50, ∅63

### How to Order

High Rigidity/  
Linear Guide Type

MY1HT 50 [ ] [ ] - 400 L - Y7BW [ ] - [ ]

High rigidity/Linear guide type  
(2 linear guides)

#### 1 Bore size

50	50 mm
63	63 mm

#### 2 Port thread type

Symbol	Type	Bore size
Nil	Rc	∅50, ∅63
TN	NPT	
TF	G	

#### 3 Piping

Nil	Standard type
G	Centralized piping type

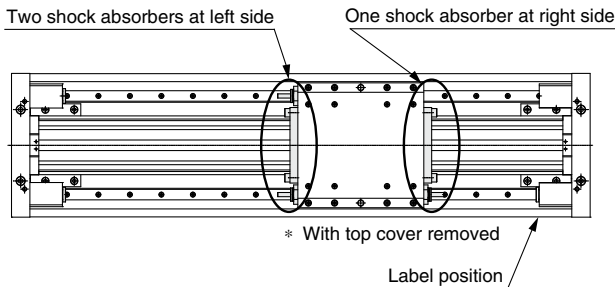
#### 4 Stroke

Refer to "Standard Stroke"  
on page 104.

#### 5 Stroke adjustment unit

L	One shock absorber at each stroke end
H	Two shock absorbers at each stroke end
LH	One shock absorber at left side, two shock absorbers at right side
HL	Two shock absorbers at left side, one shock absorber at right side

\* The positions right and left are for when the label is on the front side.  
Refer to the figure below for details.



#### 6 Auto switch

Nil	Without auto switch (Built-in magnet)
-----	---------------------------------------

\* For the applicable auto switch model,  
refer to the table below.

#### 7 Number of auto switches

Nil	2
S	1
n	n

#### 8 Made to Order Common Specifications

Refer to page 104.

#### Option

##### Stroke Adjustment Unit Part No.

Bore size [mm]	50	63
Unit part no.	MYT-A50L	MYT-A63L

For component parts, refer to page 124.

##### Side Support Part No.

Type	Bore size [mm]	50	63
Side support A		MY-S63A	
Side support B		MY-S63B	

For details about dimensions, etc., refer to page 108.  
Side supports consist of a set of right and left brackets.

### Applicable Auto Switches/Refer to the Web Catalog for further information on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length [m]			Pre-wired connector	Applicable load		
					DC	AC	Perpendicular	In-line	0.5 (Nil)	3 (L)	5 (Z)				
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	Y69A	Y59A	●	●	○	○	IC circuit	
				3-wire (PNP)				Y7PV	Y7P	●	●	○	○		
				2-wire				Y69B	Y59B	●	●	○	○		
	Diagnostic indication (2-color indicator)			3-wire (NPN)				Y7NWV	Y7NW	●	●	○	○		IC circuit
				3-wire (PNP)				Y7PWV	Y7PW	●	●	○	○		
				2-wire				Y7BWV	Y7BW	●	●	○	○		
Water resistant (2-color indicator)	—	—	—	—	—	—	Y7BA*1	—	●	○	○	—			
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	24 V	12 V	100 V	—	Z76	●	●	—	—	IC circuit	—
				2-wire				100 V or less	—	Z73	●	●	●	—	
			No	2-wire				—	Z80	●	●	—	—	IC circuit	Relay, PLC

\*1 Water-resistant type auto switches can be mounted on the above models, but SMC cannot guarantee water resistance.

Please contact SMC regarding water-resistant types with the above model numbers.

\* For details on auto switch mounting brackets and part numbers, refer to page 112.

\* Lead wire length symbols: 0.5 m ..... Nil (Example) Y7BW

3 m ..... L (Example) Y7BWL

5 m ..... Z (Example) Y7BWZ

\* Solid state auto switches marked with "○" are produced upon receipt of order.

\* Switch spacers (BMP1-032) are separately required to retrofit auto switches.

\* Since there are applicable auto switches other than those listed above, refer to page 112 for details.

\* Auto switches are shipped together with the product but do not come assembled. (For details about auto switch mounting, etc., refer to page 110.)