

Pushbutton Switches
A22N

Selector Switches
A22N

Key-type Selector Switches
A22N

Indicators
M22N

Pushbutton Switches
A30N

Selector Switches
A30N

Key-type Selector Switches
A30N

Subassemblies
(Common)

Accessories
and Tools

Safety
Precautions

Selector Switches A30NS/A30NW

30-mm dia. Knob-type Selector Switches
Control panel miniaturization through a more compact design and modified wiring direction.
Addition of Push-In Plus terminal blocks for easy wiring.
Workability and safety improvements.

Easy to Use

- You can connect up to three Contact Blocks in one stage for multistage expansion. (Screw terminal block type)
- Screw terminal structure is compatible with round crimp terminals. (Screw terminal block type)

Safety

- Easy-to-operate lock lever for secure locking.
- Easy-mounting Contact Blocks provide finger protection.
- No loose connections of wiring means maintenance-free use. (Push-In Plus terminal block type)

Product Lineup

- The buttons and bezels come in a wide variety of colors and shapes.



⚠ Refer to Safety Precautions for All Pushbutton Switches/Indicators and Safety Precautions on page 88.

Operation Unit Colors

		Red	Green	Yellow	White	Blue	Black	
Non-lighted Switches	A30NS-□□□-N□ Opaque							
Lighted Switches	A30NW-□□□-T□ Transparent	When not lit						
		Red	Green	Yellow	White	Blue	Orange	White
		When lit						
		Red	Green	Yellow	White	Blue	Orange	Opaque white*

* The colors when the Switches are lit are for transparent white Operation Units (code: TW) and yellow LED Lamps (code: Y).

List of Models

Screw Terminal Blocks/Push-In Plus Terminal Blocks			
Brushed metal bezels			
A30NS		A30NW	
Non-lighted	Lighted	Two Positions	Three Positions
Two Positions		Three Positions	

Model Number Structure

Model Number Legend - - - Please order Operation Units, LED lamps (lighted models only), Mounting Collars, Contact Blocks, and Lighting Units (lighted models only) separately. LED lamps, Mounting Collars, Contact Blocks, Lighting Units, and Lock Ring can also be used with the A22N series.

Model Numbers for Sets

A30N ⁽¹⁾W - ⁽²⁾2M ⁽³⁾M - ⁽⁴⁾NR ⁽⁵⁾A - ⁽⁶⁾G ⁽⁷⁾101 - ⁽⁸⁾R ⁽⁹⁾A

(1) Type

Code	Type
S	Non-lighted
W	Lighted

(5) Degree of Protection

Code	Protection
A	Conforming to IP66, NEMA 4X, NEMA13

(6) Contacts and Terminals Specifications

Code	Specification
G	General/Screw Terminal Block
P	General/Push-In Plus Terminal Block

(2) Number of Positions and Bezel Material

Code	No. of positions	Bezel material
2M	2	Brushed metal
3M	3	Brushed metal

(7) Contact Configuration

Code	Contact Blocks		Non-lighted						Lighted				
			Unit position			No. of positions			Unit position			No. of positions	
	NO	NC	1	2	3	Two positions	Three positions	1	2	3	Two positions	Three positions	
100	1	0	NO	---	---	Yes		NO	Lighting Unit	---	Yes		
002	0	1	---	---	NC	Yes		---	Lighting Unit	NC	Yes		
101	2	0	NO	---	NO	Yes	Yes	NO	Lighting Unit	NO	Yes	Yes	
102	1	1	NO	---	NC	Yes	Yes	NO	Lighting Unit	NC	Yes	Yes	
201	1	1	NC	---	NO		Yes	NC	Lighting Unit	NO		Yes	
202	0	2	NC	---	NC	Yes	Yes	NC	Lighting Unit	NC	Yes	Yes	
110	2	0	NO	NO	---		Yes						
111	3	0	NO	NO	NO	Yes	Yes						
112	2	1	NO	NO	NC	Yes	Yes						
210	1	1	NC	NO	---		Yes						
211	2	1	NC	NO	NO		Yes						
212	1	2	NC	NO	NC		Yes						
011	2	0	---	NO	NO		Yes						
012	1	1	---	NO	NC		Yes						
120	1	1	NO	NC	---		Yes						
121	2	1	NO	NC	NO		Yes						
122	1	2	NO	NC	NC	Yes	Yes						
220	0	2	NC	NC	---		Yes						
221	1	2	NC	NC	NO		Yes						
222	0	3	NC	NC	NC	Yes	Yes						
021	1	1	---	NC	NO		Yes						
022	0	2	---	NC	NC		Yes						

(3) Reset Method

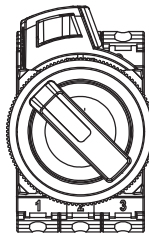
Code	Reset method		
M	Manual	Two-position manual	
		Three-position manual	
L	Automatic reset on left	Two-position automatic	
		Three-position left automatic	
R	Automatic reset on right	Three-position right automatic	
B	Automatic reset on left and right	Three-position left or right automatic	

(4) Operation Unit Transparency and Color and (8) LED Lamp Color

Lighted/non-lighted	Code (4)	Code (8)	Transparency	Operation Unit color	LED Lamp color
Non-lighted	NR	N	Opaque	Red	---
	NG				
	NY				
	NW				
	NA				
	NB				
Lighted	TR	R	Transparent	Red	Red
	TG	G		Green	Green
	TY	Y		Yellow	Yellow
	TW	W		White	White
	TA	A		Blue	Blue
	TO	O		Orange	Orange
	TW	Y		White*	Yellow

* The color is opaque white when the Switch is lit.

Note: 1. NO (blue): Normally open, NC (orange): Normally closed.
 2. Refer to the following figure for the Unit positions.
 3. Refer to *Contact Configuration Table* on page 23.



(9) LED Lamp Voltage

Code	LED Lamp voltage
N	Non-lighted
A	6 VAC/DC
B	12 VAC/DC
C	24 VAC/DC
D	100/110/120 VAC
E	200/220/230/240 VAC

- Specifications: Refer to page 60.
- Dimensions: Refer to page 72.
- Accessories and tools: Refer to pages 84 to 85.

- Characteristics: Refer to page 71.
- Subassemblies (Common): Refer to page 82.
- Precautions for correct use: Refer to pages 88 to 99.


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A30NS/A30NW


Ordering Information

Model Numbers for Sets --- Shipped as a set that includes the Operation Unit, Mounting Collar, and Contact Block.

Non-lighted, Two-position, Selector Switches

Appearance	Bezel material	No. of outputs	Model	(3) Reset method	(4)(4) Operation Unit color	(7)(7)(7) Contact configuration					
Brushed metal bezels 	2M	1	A30NS-2M(3)-(4)(4)A-G(7)(7)-NN	M: Manual L: Automatic reset on left	NR: Opaque red NG: Opaque green NY: Opaque yellow NW: Opaque white NA: Opaque blue NB: Opaque black	100 002					
			A30NS-2M(3)-(4)(4)A-P(7)(7)-NN								
		2	A30NS-2M(3)-(4)(4)A-G(7)(7)-NN			M: Manual L: Automatic reset on left	NR: Opaque red NG: Opaque green NY: Opaque yellow NW: Opaque white NA: Opaque blue NB: Opaque black	102 101 202			
			A30NS-2M(3)-(4)(4)A-P(7)(7)-NN								
			3					A30NS-2M(3)-(4)(4)A-G(7)(7)-NN	M: Manual L: Automatic reset on left	NR: Opaque red NG: Opaque green NY: Opaque yellow NW: Opaque white NA: Opaque blue NB: Opaque black	111 222 122 112
								A30NS-2M(3)-(4)(4)A-P(7)(7)-NN			

Non-lighted, Three-position, Selector Switches

Appearance	Bezel material	No. of outputs	Model	(3) Reset method	(4)(4) Operation Unit color	(7)(7)(7) Contact configuration				
Brushed metal bezels 	3M	2	A30NS-3M(3)-(4)(4)A-G(7)(7)-NN	M: Manual L: Automatic reset on left R: Automatic reset on right B: Automatic reset on left and right	NR: Opaque red NG: Opaque green NY: Opaque yellow NW: Opaque white NA: Opaque blue NB: Opaque black	110 011 101 220 022 202 120 102 210 201 012 021				
			A30NS-3M(3)-(4)(4)A-P(7)(7)-NN							
			3				A30NS-3M(3)-(4)(4)A-G(7)(7)-NN	M: Manual L: Automatic reset on left R: Automatic reset on right B: Automatic reset on left and right	NR: Opaque red NG: Opaque green NY: Opaque yellow NW: Opaque white NA: Opaque blue NB: Opaque black	111 222 122 212 221 211 121 112
							A30NS-3M(3)-(4)(4)A-P(7)(7)-NN			


■ Subassemblies: Refer to pages 69 and 82.
(You can order Operation Units, LED Lamps, Mounting Collars, and Contact Blocks individually.)

■ Specifications: Refer to page 60. ■ Characteristics: Refer to page 71.
■ Dimensions: Refer to page 72.
■ Accessories and tools: Refer to pages 84 to 85.


Ordering Information

Model Numbers for Sets - - - Shipped as a set that includes the Operation Unit, LED Lamp, Mounting Collar, Contact Block, and Lighting Unit.

Lighted, Two-position, Selector Switches

Appearance	Bezel material	No. of outputs	Model	(3) Reset method	(4)(4) Operation Unit color	(7)(7)(7) Contact Configuration	(8) LED Lamp color	(9) LED Lamp voltage
Brushed metal bezels 	2M	1	A30NW-2M(3)-(4)(4)A-G(7)(7)-(8)(9)	M: Manual L: Automatic reset on left	TR: Transparent red TG: Transparent green TY: Transparent yellow TW: Transparent white TA: Transparent blue TO: Transparent orange	100 002	R: Red G: Green Y: Yellow A: Blue O: Orange W: White	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC
			A30NW-2M(3)-(4)(4)A-P(7)(7)-(8)(9)					
		2	A30NW-2M(3)-(4)(4)A-G(7)(7)-(8)(9)					
			A30NW-2M(3)-(4)(4)A-P(7)(7)-(8)(9)					

Lighted, Three-position, Selector Switches

Appearance	Bezel material	No. of outputs	Model	(3) Reset method	(4)(4) Operation Unit color	(7)(7)(7) Contact Configuration	(8) LED Lamp color	(9) LED Lamp voltage
Brushed metal bezels 	3M	2	A30NW-3M(3)-(4)(4)A-G(7)(7)-(8)(9)	M: Manual L: Automatic reset on left R: Automatic reset on right B: Automatic reset on left and right	TR: Transparent red TG: Transparent green TY: Transparent yellow TW: Transparent white TA: Transparent blue TO: Transparent orange	101 202 102 201	R: Red G: Green Y: Yellow A: Blue O: Orange W: White	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC
			A30NW-3M(3)-(4)(4)A-P(7)(7)-(8)(9)					

Note: Normally, the Operation Unit and LED Lamp with the same color are combined.

However, opaque white is available by combining a white Operation Unit and yellow LED. A30N□-□□□-TWA-□□□□-Y□

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Subassemblies (Common)

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■ Subassemblies: Refer to pages 69 and 82.
(You can order Operation Units, LED Lamps, Mounting Collars, and Contact Blocks individually.)

■ Specifications: Refer to page 60. ■ Characteristics: Refer to page 71.
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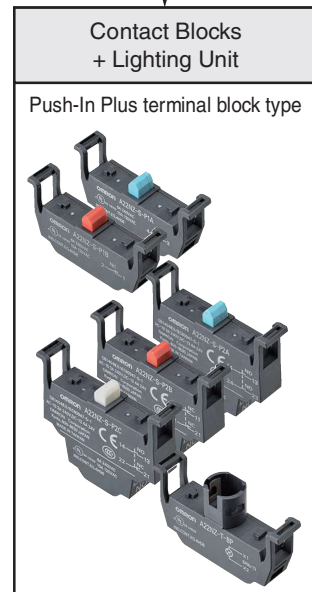
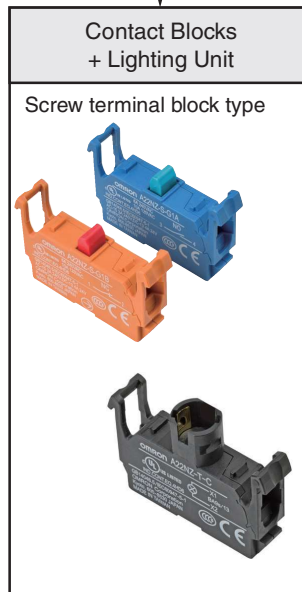
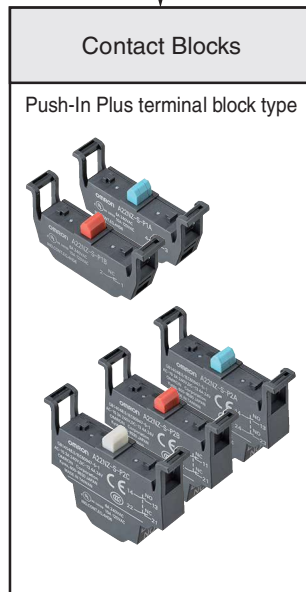
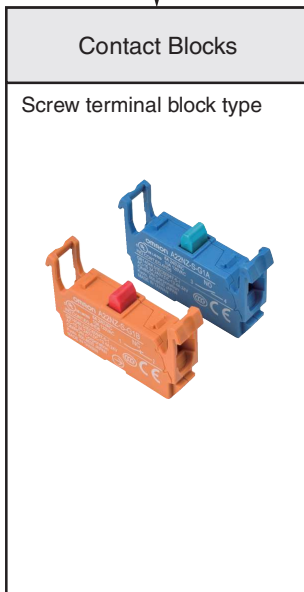
Ordering Information

Switch Structure - - - Please order Operation Units, LED lamps (lighted models only), Mounting Collars, Contact Blocks, and Lighting Units (lighted models only) separately. LED lamps, Mounting Collars, Contact Blocks, Lighting Units, and Lock Ring can also be used with the A22N series.



Non-lighted models

Lighted models



- Specifications: Refer to page 60.
- Dimensions: Refer to page 72.
- Accessories and tools: Refer to pages 84 to 85.

- Characteristics: Refer to page 71.
- Subassemblies (Common): Refer to page 82.
- Precautions for correct use: Refer to pages 88 to 99.

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Ordering Information

Subassemblies








----- Please order Operation Units, LED lamps (lighted models only), Mounting Collars, Contact Blocks, and Lighting Units (lighted models only) separately. LED lamps, Mounting Collars, Contact Blocks, Lighting Units, and Lock Ring can also be used with the A22N series.

Operation Units

Non-lighted Switches

No. of positions	Reset method	Operation Unit color	Bezel material and shape	Model
				
2	Manual	Opaque red		A30NZ-2MM-NRA
	Automatic reset on left			A30NZ-2ML-NRA
3	Manual			A30NZ-3MM-NRA
	Automatic reset on left			A30NZ-3ML-NRA
	Automatic reset on right			A30NZ-3MR-NRA
	Automatic reset on left and right			A30NZ-3MB-NRA
2	Manual	Opaque green		A30NZ-2MM-NGA
	Automatic reset on left			A30NZ-2ML-NGA
3	Manual			A30NZ-3MM-NGA
	Automatic reset on left			A30NZ-3ML-NGA
	Automatic reset on right			A30NZ-3MR-NGA
	Automatic reset on left and right			A30NZ-3MB-NGA
2	Manual	Opaque yellow		A30NZ-2MM-NYA
	Automatic reset on left			A30NZ-2ML-NYA
3	Manual			A30NZ-3MM-NYA
	Automatic reset on left			A30NZ-3ML-NYA
	Automatic reset on right			A30NZ-3MR-NYA
	Automatic reset on left and right			A30NZ-3MB-NYA
2	Manual	Opaque white		A30NZ-2MM-NWA
	Automatic reset on left			A30NZ-2ML-NWA
3	Manual			A30NZ-3MM-NWA
	Automatic reset on left			A30NZ-3ML-NWA
	Automatic reset on right			A30NZ-3MR-NWA
	Automatic reset on left and right			A30NZ-3MB-NWA
2	Manual	Opaque blue		A30NZ-2MM-NAA
	Automatic reset on left			A30NZ-2ML-NAA
3	Manual			A30NZ-3MM-NAA
	Automatic reset on left			A30NZ-3ML-NAA
	Automatic reset on right			A30NZ-3MR-NAA
	Automatic reset on left and right			A30NZ-3MB-NAA
2	Manual	Opaque black		A30NZ-2MM-NBA
	Automatic reset on left			A30NZ-2ML-NBA
3	Manual			A30NZ-3MM-NBA
	Automatic reset on left			A30NZ-3ML-NBA
	Automatic reset on right			A30NZ-3MR-NBA
	Automatic reset on left and right			A30NZ-3MB-NBA

Lighted Switches

No. of positions	Reset method	Operation Unit color	Bezel material and shape	Model
				
2	Manual	Transparent red		A30NZ-2MM-TRA
	Automatic reset on left			A30NZ-2ML-TRA
3	Manual			A30NZ-3MM-TRA
	Automatic reset on left			A30NZ-3ML-TRA
	Automatic reset on right			A30NZ-3MR-TRA
	Automatic reset on left and right			A30NZ-3MB-TRA
2	Manual	Transparent green		A30NZ-2MM-TGA
	Automatic reset on left			A30NZ-2ML-TGA
3	Manual			A30NZ-3MM-TGA
	Automatic reset on left			A30NZ-3ML-TGA
	Automatic reset on right			A30NZ-3MR-TGA
	Automatic reset on left and right			A30NZ-3MB-TGA
2	Manual	Transparent yellow		A30NZ-2MM-TYA
	Automatic reset on left			A30NZ-2ML-TYA
3	Manual			A30NZ-3MM-TYA
	Automatic reset on left			A30NZ-3ML-TYA
	Automatic reset on right			A30NZ-3MR-TYA
	Automatic reset on left and right			A30NZ-3MB-TYA
2	Manual	Transparent white		A30NZ-2MM-TWA
	Automatic reset on left			A30NZ-2ML-TWA
3	Manual			A30NZ-3MM-TWA
	Automatic reset on left			A30NZ-3ML-TWA
	Automatic reset on right			A30NZ-3MR-TWA
	Automatic reset on left and right			A30NZ-3MB-TWA
2	Manual	Transparent blue		A30NZ-2MM-TAA
	Automatic reset on left			A30NZ-2ML-TAA
3	Manual			A30NZ-3MM-TAA
	Automatic reset on left			A30NZ-3ML-TAA
	Automatic reset on right			A30NZ-3MR-TAA
	Automatic reset on left and right			A30NZ-3MB-TAA
2	Manual	Transparent orange		A30NZ-2MM-TOA
	Automatic reset on left			A30NZ-2ML-TOA
3	Manual			A30NZ-3MM-TOA
	Automatic reset on left			A30NZ-3ML-TOA
	Automatic reset on right			A30NZ-3MR-TOA
	Automatic reset on left and right			A30NZ-3MB-TOA

- Specifications: Refer to page 60.
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Specifications

Certified Safety Standard Ratings

UL 508 (File No. E76675), CSA C22.2 No.14

6 A 240 VAC, 10 A 120 VAC

TÜV (EN60947-5-1)

AC-15 3 A 240 VAC

DC-13 4 A 24 VDC

CCC (GB14048.5)

AC-15 3 A 240 VAC

DC-13 4 A 24 VDC

Application Standards

UL1059 and UL486E (Push-In Plus terminal block type)

Ratings

Contacts (Standard Load)

Rated insulation voltage		600 V				
Rated carry current		10 A				
Rated voltage		24 V	120 V	240 V	380 V	440 V
AC at 50/60 Hz	Resistive load (AC-12)	10 A	10 A	6 A	2A	2 A
	Inductive load (AC-15)	10 A	6 A	3 A	1.9 A	1.6 A
DC	Resistive load (DC-12)	8 A	2.2 A	1.1 A	---	---
	Inductive load (DC-13)	4 A	1.1 A	0.55 A	---	---

Note: 1. The above ratings were obtained by conducting tests under the following conditions.

- (1) Ambient temperature: $20 \pm 2^{\circ}\text{C}$
- (2) Ambient humidity: $65\% \pm 5\% \text{ RH}$
- (3) Operating frequency: 30 operations/minute

2. Minimum applicable load: 10 mA at 5 VDC.

LED Lamps

Rated voltage	Applied voltage	Rated current
6 VAC/DC	6 VAC/DC $\pm 10\%$	Approx. 11 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
12 VAC/DC	12 VAC/DC $\pm 10\%$	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
24 VAC/DC	24 VAC/DC $\pm 10\%$	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
100 VAC	100 VAC $\pm 10\%$	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
110 VAC	110 VAC $\pm 10\%$	
120 VAC	100 to 130 VAC	
200 VAC	200 VAC $\pm 10\%$	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
220 VAC	220 VAC $\pm 10\%$	
230 VAC	230 VAC $\pm 10\%$	
240 VAC	220 to 250 VAC	

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Specifications (When the Operation Unit, LED Lamp, Mounting Collar, Contact Blocks, and Lighting Unit Are Combined)

Characteristics

Item	Type	Selector Switches	
		Non-lighted models	Lighted models
Allowable operating frequency	Mechanical	30 operations/minute max.	
	Electrical	30 operations/minute max.	
Insulation resistance		100 MΩ min. (at 500 VDC)	Not available for lighting units
Contact resistance		100 mΩ max. (initial value)	
Dielectric strength	Between terminals of same polarity	2,500 VAC at 50/60 Hz for 1 min. (initial value)	Not available for lighting units
	Between each terminal and ground	2,500 VAC at 50/60 Hz for 1 min. (initial value)	
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)	
Shock resistance	Malfunction	1,000 m/s ² max. (malfunction within 1 ms)	
Durability	Mechanical	500,000 operations min. (Switches with 3 positions: 300,000 operations min.)	
	Electrical	500,000 operations min. (Switches with 3 positions: 300,000 operations min.) (250 VAC, 3 A, with an inductive load having power factor cos θ = 0.4)	
Ambient operating temperature ^{*1}		-25 to 70°C	-25 to 55°C
Ambient operating humidity		35% to 85% RH	
Ambient storage temperature ^{*1}		-40 to 80°C	
Degree of protection ^{*2}		Conforming to IP66	
Electric shock protection class		Class II	
PTI (tracking characteristic)		175	
Degree of contamination (application environment)		3 (EN 60947-5-1)	
Weight		Approx. 60 g (for 1NC/1NO)	Approx. 75 g (for 1NC/1NO)


*1. With no icing or condensation.

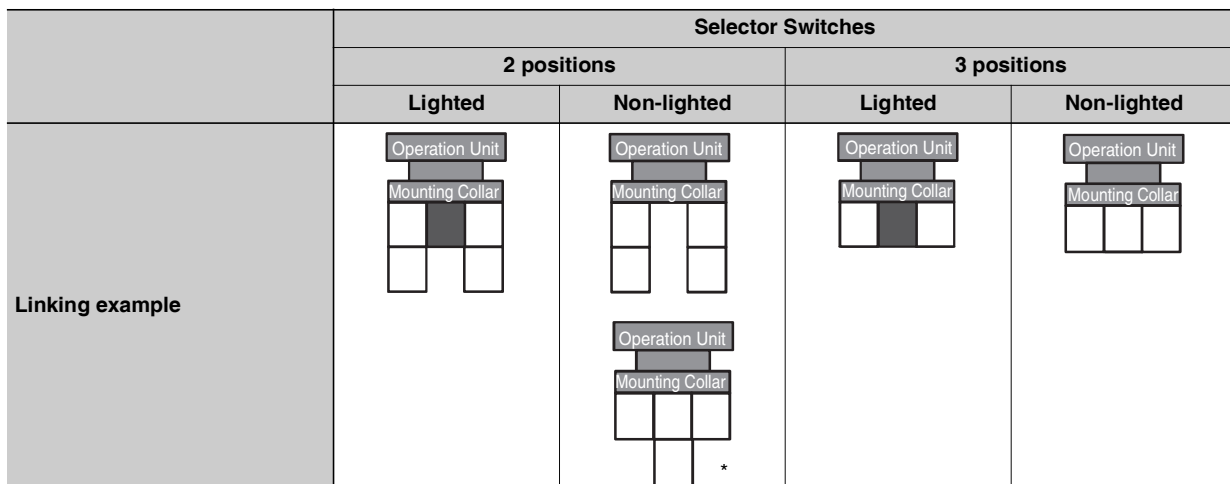
*2. Degree of protection from the front of the panel.

Operating Characteristics (for SPST-NO/SPST-NC)

Item	Type	Selector Switches	
		Manual reset	Automatic reset
Total travel force (torque) (maximum TTF)		0.6 N·m	0.6 N·m
Total travel (TT)		2 positions: Approx. 90°, 3 positions: Approx. 45°	
Resetting force (torque) (RF)		0.5 N·m max.	---

Examples of Linked Contact Blocks (Screw terminal block type)

 Contact Blocks  Lighting Units



* If you use three Contact Blocks in stage 1, you can add one more Contact Block in the middle of stage 2.

Note: If you increase the number of Contact Blocks, evaluate the Switch under actual working conditions before permanent installation and use the Switch within a number of switching operations that will not adversely affect the Switch's performance.

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Dimensions

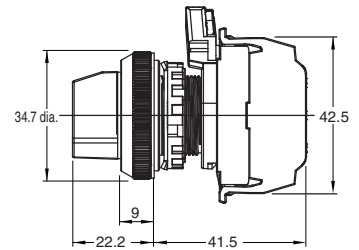
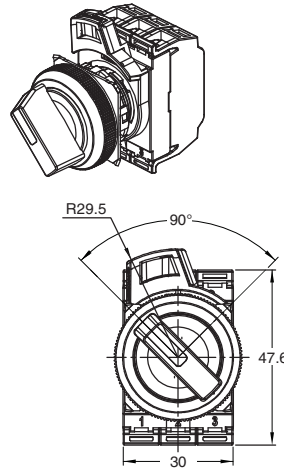
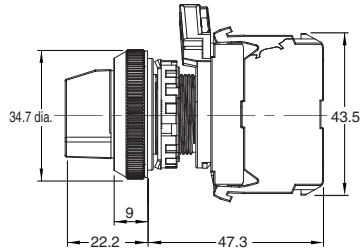
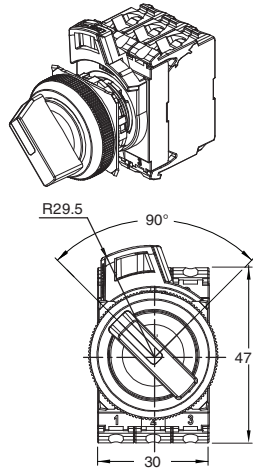
(Unit: mm)

Lighted and Non-lighted Selection Switches

Two-position Switches with Brushed Metal Bezels

A30N□-2M□-□□A-G□-□□

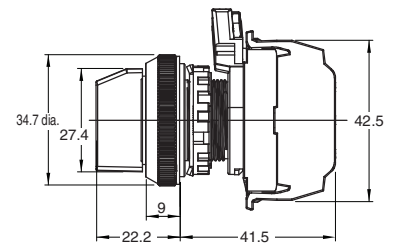
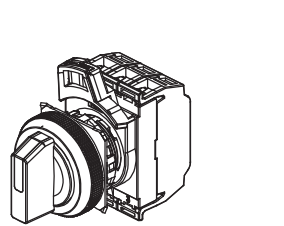
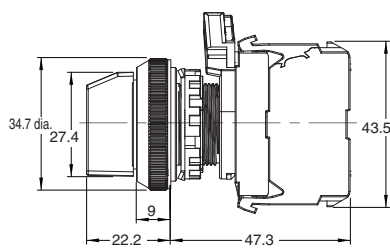
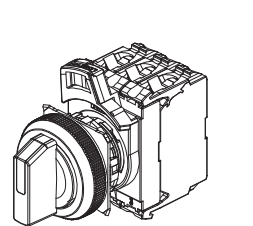
A30N□-2M□-□□A-P□-□□



Three-position Switches with Brushed Metal Bezels

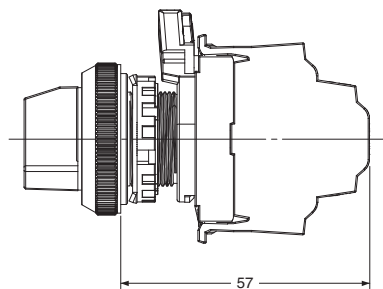
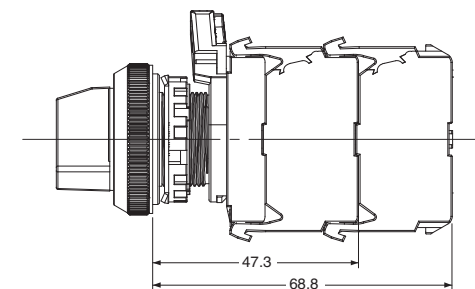
A30N□-3M□-□□A-G□-□□

A30N□-3M□-□□A-P□-□□



Depth with Linked Units (Screw terminal block type)

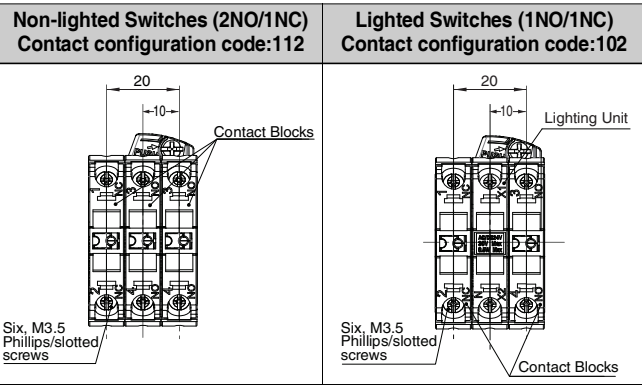
Depth when a double-contact unit is mounted (Push-In Plus terminal block type)



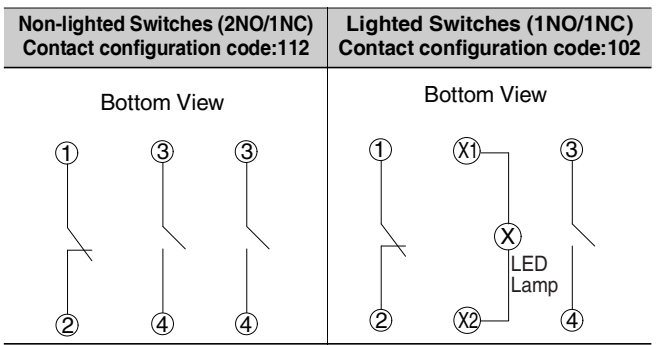
Pushbutton Switches A22N
 Selector Switches A22N
 Key-type Selector Switches A22N
 Indicators M22N
 Pushbutton Switches A30N
 Selector Switches A30N
 Key-type Selector Switches A30N
 Subassemblies (Common)
 Accessories and Tools
 Safety Precautions

Terminal Arrangement

BOTTOM VIEW (Screw terminal block type)

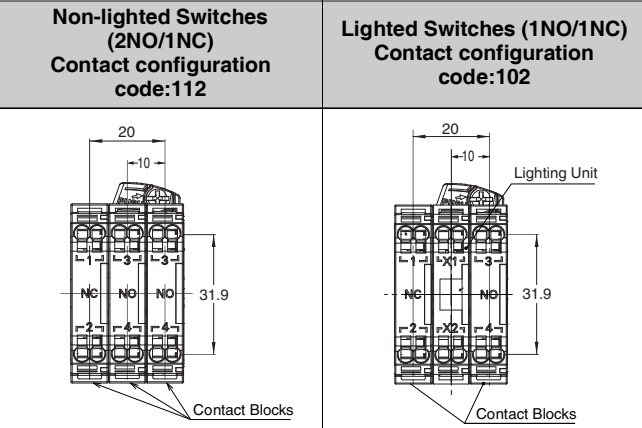


Terminal Connection Diagrams



Note: The above shows a terminal connection diagram for a screw terminal block type.

BOTTOM VIEW (Push-In Plus terminal block type)



Double-contact unit Non-lighted (2NO/2NO/2NC)

