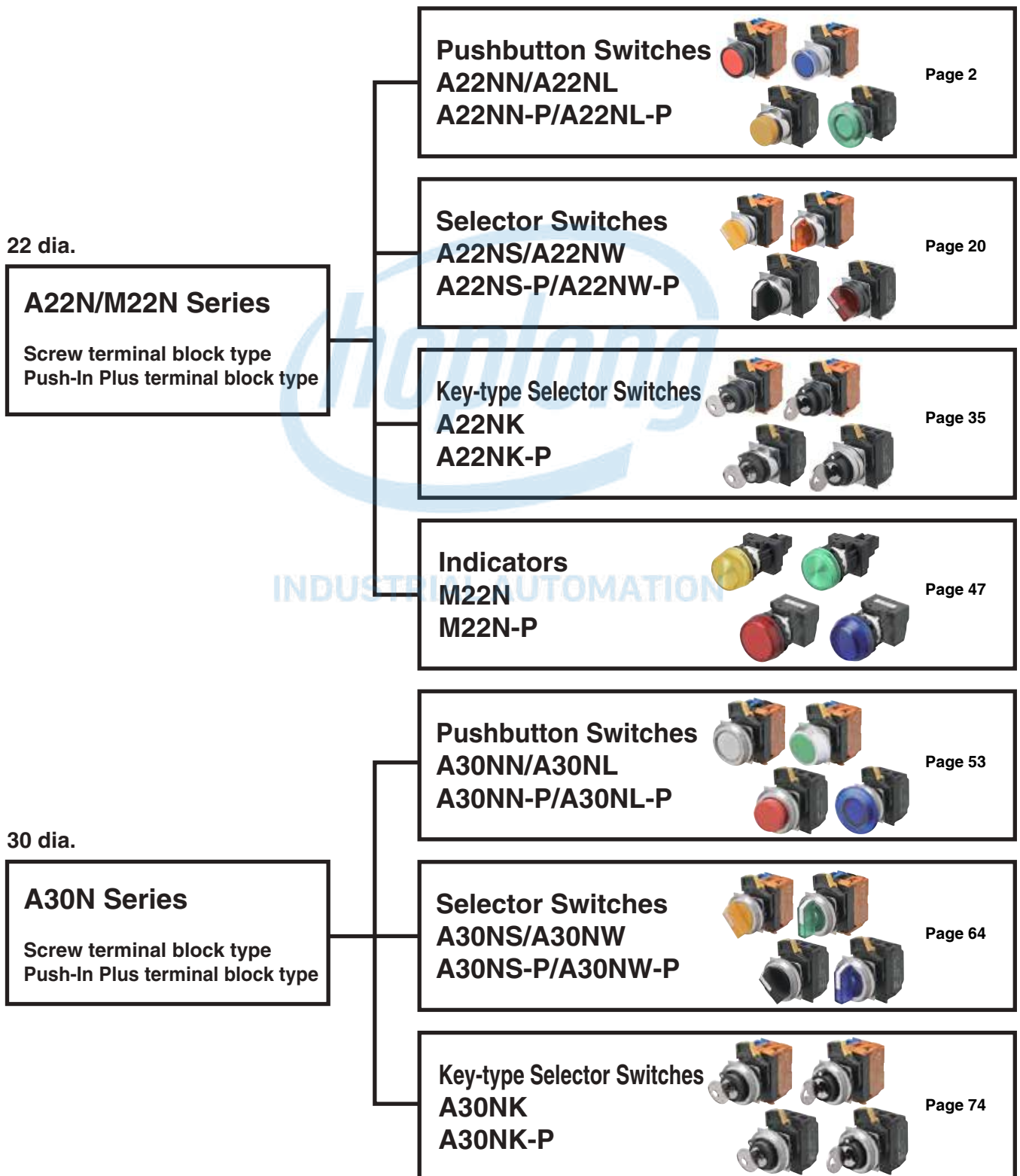


Pushbutton Switches/Selector Switches/Indicators A22N/M22N/A30N

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



Pushbutton Switches A22NN/A22NL

22-mm dia. Pushbutton Switches

Control panel miniaturization through a more compact design and modified wiring direction. Addition of Push-In Plus terminal blocks for easy wiring.



Easy to Use

- Improved wiring visibility through to a modified wiring direction. (Push-In Plus terminal block type)
- Screw terminal block structure is compatible with round crimp terminals. (Screw terminal block type)
- The terminals can be secured even when a contact block is mounted. (Screw terminal block type)
- Contact Blocks can be attached in any direction for easy assembly.

Miniaturization

- No need for extra lateral space because of the modified wiring direction. (Push-In Plus terminal block type)
- Compact design.
- A22NL (lighted models) are the same size as A22NN (non-lighted models).

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

- Meet global safety standards.
- Can be installed in two types of panel hole dimensions: 22.3 and 25.5 dia.
- The buttons and bezels come in a wide variety of colors, shapes, and materials.
- Standard-feature degree of protection: IP66, NEMA 4X, and NEMA 13.

Refer to *Safety Precautions for All Pushbutton Switches/Indicators and Safety Precautions* on page 89.

Button Colors

		Red	Green	Yellow	White	Blue	Black		
Non-lighted Switches	A22NN-□□□-N□ Opaque								
	A22NN-□□□-U□ Transparent								
Lighted Switches	A22NL-□□□-T□ Transparent	When not lit							
		When lit							
	A22NL-□□□-T□ Transparent	When not lit							
		When lit							

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

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

List of Models

Screw Terminal Blocks/Push-In Plus Terminal Blocks		
Plastic bezels	Brushed metal bezels	Metal bezels
A22N□-BN	A22N□-MN	A22N□-RN
<p>Flat</p> 	<p>Flat</p> 	<p>Flat</p> 
A22N□-BP	A22N□-MP	A22N□-RP
<p>Projected</p> 	<p>Projected</p> 	<p>Projected</p> 
A22N□-BG	A22N□-MG	
<p>Full guard</p> 	<p>Full guard</p> 	
A22N□-BM	A22N□-MM	A22N□-RM
<p>Mushroom</p> 	<p>Mushroom</p> 	<p>Mushroom</p> 

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

Model Number Structure

Model Number Legend

----- Shipped as a set that includes the Operation Unit, LED Lamp (lighted models only), Mounting Collar, Contact Block, and Lighting Unit (lighted models only).

For information on combinations, refer to *Ordering Information* on pages 5 to 8.

Model Numbers for Sets

A 2 2 N ⁽¹⁾ L - ⁽²⁾ BN ⁽³⁾ M - ⁽⁴⁾ TR ⁽⁵⁾ A - ⁽⁶⁾ G ⁽⁷⁾ 100 - ⁽⁸⁾ R ⁽⁹⁾ B

(1) Type

Code	Description
N	Non-lighted
L	Lighted

(2) Bezel Material and Button Shape

Code	Bezel material	Button shape
BN	Plastic	Flat
BP	Plastic	Projected
BG	Plastic	Full guard
BM	Plastic	Mushroom
MN	Brushed metal	Flat
MP	Brushed metal	Projected
MG	Brushed metal	Full guard
MM	Brushed metal	Mushroom
RN	Metal	Flat
RP	Metal	Projected
RM	Metal	Mushroom

(3) Switch Action

Code	Description
M	Momentary
A	Alternate

(4) Button Transparency and Color and (8) LED Lamp Color

Lighted/non-lighted	Code (4)	Code (8)	Transparency	Button color	LED lamp color
Non-lighted	NR	N	Opaque	Red	---
	NG	N	Opaque	Green	
	NY	N	Opaque	Yellow	
	NW	N	Opaque	White	
	NA	N	Opaque	Blue	
	NB	N	Opaque	Black	
	UR	N	Transparent	Red	
	UG	N	Transparent	Green	
	UY	N	Transparent	Yellow	
	UW	N	Transparent	White	
	UA	N	Transparent	Blue	
	UO	N	Transparent	Orange	
Lighted	TR	R	Transparent	Red	Red
	TG	G	Transparent	Green	Green
	TY	Y	Transparent	Yellow	Yellow
	TW	W	Transparent	White	White
	TA	A	Transparent	Blue	Blue
	TO	O	Transparent	Orange	Orange
	TW	Y	Transparent	White *	Yellow

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

(5) Degree of Protection

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

(6) Contacts and Terminals Specifications

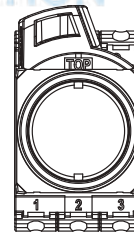
Code	Specification
G	General/Screw terminal block
P	General/Push-In Plus Terminal Block

(7) Contacts

Code	Contact Blocks		Unit position					
	NO	NC	Non-lighted			Lighted		
			1	2	3	1	2	3
100	1	0	NO	---	---	NO	Lighting Unit	---
002	0	1	---	---	NC	---	Lighting Unit	NC
101	2	0	NO	---	NO	NO	Lighting Unit	NO
102	1	1	NO	---	NC	NO	Lighting Unit	NC
202	0	2	NC	---	NC	NC	Lighting Unit	NC
111	3	0	NO	NO	NO			
112	2	1	NO	NO	NC			
122	1	2	NO	NC	NC			
222	0	3	NC	NC	NC			

Note: 1. NO (blue): Normally open, NC (orange): Normally closed.

2. Refer to the following figure for Unit positions.



(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 13.

■ Dimensions: Refer to pages 15 to 17.




■ Precautions for correct use: Refer to pages 89 to 100.

■ 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 (lighted models only), Mounting Collar, Contact Block, and Lighting Unit (lighted models only).

Non-lighted, Flat Switches

Appearance	Contacts	Momentary action (self-resetting)	Alternate action (self-holding)	(4)(4) Button color	(7)(7)(7) Contacts	
		Model	Model			
	1	A22NN-BNM-(4)(4)A-G(7)(7)-NN	A22NN-BNA-(4)(4)A-G(7)(7)-NN	NR: Opaque, red NG: Opaque, green NY: Opaque, yellow NW: Opaque, white NA: Opaque, blue NB: Opaque, black UR: Transparent, red UG: Transparent, green UY: Transparent, yellow UW: Transparent, white UA: Transparent, blue UO: Transparent, orange	100 002	
		A22NN-BNM-(4)(4)A-P(7)(7)-NN	A22NN-BNA-(4)(4)A-P(7)(7)-NN			
	2	A22NN-BNM-(4)(4)A-G(7)(7)-NN	A22NN-BNA-(4)(4)A-G(7)(7)-NN		101 102 202	
		A22NN-BNM-(4)(4)A-P(7)(7)-NN	A22NN-BNA-(4)(4)A-P(7)(7)-NN			
	3	A22NN-BNM-(4)(4)A-G(7)(7)-NN	A22NN-BNA-(4)(4)A-G(7)(7)-NN		111 112 122 222	
		A22NN-BNM-(4)(4)A-P(7)(7)-NN	A22NN-BNA-(4)(4)A-P(7)(7)-NN			
	1	A22NN-MNM-(4)(4)A-G(7)(7)-NN	A22NN-MNA-(4)(4)A-G(7)(7)-NN		NR: Opaque, red NG: Opaque, green NY: Opaque, yellow NW: Opaque, white NA: Opaque, blue NB: Opaque, black UR: Transparent, red UG: Transparent, green UY: Transparent, yellow UW: Transparent, white UA: Transparent, blue UO: Transparent, orange	100 002
		A22NN-MNM-(4)(4)A-P(7)(7)-NN	A22NN-MNA-(4)(4)A-P(7)(7)-NN			
	2	A22NN-MNM-(4)(4)A-G(7)(7)-NN	A22NN-MNA-(4)(4)A-G(7)(7)-NN			101 102 202
		A22NN-MNM-(4)(4)A-P(7)(7)-NN	A22NN-MNA-(4)(4)A-P(7)(7)-NN			
	3	A22NN-MNM-(4)(4)A-G(7)(7)-NN	A22NN-MNA-(4)(4)A-G(7)(7)-NN			111 112 122 222
		A22NN-MNM-(4)(4)A-P(7)(7)-NN	A22NN-MNA-(4)(4)A-P(7)(7)-NN			
	1	A22NN-RNM-(4)(4)A-G(7)(7)-NN	A22NN-RNA-(4)(4)A-G(7)(7)-NN	NR: Opaque, red NG: Opaque, green NY: Opaque, yellow NW: Opaque, white NA: Opaque, blue NB: Opaque, black UR: Transparent, red UG: Transparent, green UY: Transparent, yellow UW: Transparent, white UA: Transparent, blue UO: Transparent, orange		100 002
		A22NN-RNM-(4)(4)A-P(7)(7)-NN	A22NN-RNA-(4)(4)A-P(7)(7)-NN			
	2	A22NN-RNM-(4)(4)A-G(7)(7)-NN	A22NN-RNA-(4)(4)A-G(7)(7)-NN			101 102 202
		A22NN-RNM-(4)(4)A-P(7)(7)-NN	A22NN-RNA-(4)(4)A-P(7)(7)-NN			
	3	A22NN-RNM-(4)(4)A-G(7)(7)-NN	A22NN-RNA-(4)(4)A-G(7)(7)-NN			111 112 122 222
		A22NN-RNM-(4)(4)A-P(7)(7)-NN	A22NN-RNA-(4)(4)A-P(7)(7)-NN			

Lighted, Flat Switches

Appearance	Contacts	Momentary action (self-resetting)	Alternate action (self-holding)	(4)(4) Button color	(7)(7)(7) Contacts	(8) LED Lamp color	(9) LED Lamp voltage							
		Model	Model											
	1	A22NL-BNM-(4)(4)A-G(7)(7)-(8)(9)	A22NL-BNA-(4)(4)A-G(7)(7)-(8)(9)	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 W: White A: Blue O: Orange	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC							
		A22NL-BNM-(4)(4)A-P(7)(7)-(8)(9)	A22NL-BNA-(4)(4)A-P(7)(7)-(8)(9)											
	2	A22NL-BNM-(4)(4)A-G(7)(7)-(8)(9)	A22NL-BNA-(4)(4)A-G(7)(7)-(8)(9)		101 102 202									
		A22NL-BNM-(4)(4)A-P(7)(7)-(8)(9)	A22NL-BNA-(4)(4)A-P(7)(7)-(8)(9)											
		1	A22NL-MNM-(4)(4)A-G(7)(7)-(8)(9)		A22NL-MNA-(4)(4)A-G(7)(7)-(8)(9)			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 W: White A: Blue O: Orange	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC			
			A22NL-MNM-(4)(4)A-P(7)(7)-(8)(9)		A22NL-MNA-(4)(4)A-P(7)(7)-(8)(9)									
2		A22NL-MNM-(4)(4)A-G(7)(7)-(8)(9)	A22NL-MNA-(4)(4)A-G(7)(7)-(8)(9)		101 102 202									
		A22NL-MNM-(4)(4)A-P(7)(7)-(8)(9)	A22NL-MNA-(4)(4)A-P(7)(7)-(8)(9)											
		1	A22NL-RNM-(4)(4)A-G(7)(7)-(8)(9)		A22NL-RNA-(4)(4)A-G(7)(7)-(8)(9)				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 W: White A: Blue O: Orange	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC
			A22NL-RNM-(4)(4)A-P(7)(7)-(8)(9)		A22NL-RNA-(4)(4)A-P(7)(7)-(8)(9)									
	2	A22NL-RNM-(4)(4)A-G(7)(7)-(8)(9)	A22NL-RNA-(4)(4)A-G(7)(7)-(8)(9)		101 102 202									
		A22NL-RNM-(4)(4)A-P(7)(7)-(8)(9)	A22NL-RNA-(4)(4)A-P(7)(7)-(8)(9)											

Note: Normally, the Button and LED Lamp with the same color are combined.
 However, opaque white is available by combining a white Button and yellow LED. A22N□-□□□-TWA-□□□□-Y□

■ Subassemblies: Refer to pages 9 to 12 and 82.
 (You can order Operation Units, LED Lamps, Mounting Collars, and Contact Blocks individually.)




■ Specifications: Refer to page 13.
 ■ Dimensions: Refer to pages 15 to 17.
 ■ Accessories and tools: Refer to pages 84 to 85.

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




Ordering Information

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

Non-lighted, Projected Switches

Appearance	Contacts	Momentary action (self-resetting)	Alternate action (self-holding)	(4)(4) Button color	(7)(7)(7) Contacts	
		Model	Model			
Plastic bezels 	1	A22NN-BPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BPA-(4)(4)A-G(7)(7)(7)-NN	NR: Opaque, red NG: Opaque, green NY: Opaque, yellow NW: Opaque, white NA: Opaque, blue NB: Opaque, black UR: Transparent, red UG: Transparent, green UY: Transparent, yellow UW: Transparent, white UA: Transparent, blue UO: Transparent, orange	100 002	
		A22NN-BPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BPA-(4)(4)A-P(7)(7)(7)-NN			
	2	A22NN-BPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BPA-(4)(4)A-G(7)(7)(7)-NN		101 102 202	
		A22NN-BPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BPA-(4)(4)A-P(7)(7)(7)-NN			
	3	A22NN-BPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BPA-(4)(4)A-G(7)(7)(7)-NN		111 112 122 222	
		A22NN-BPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BPA-(4)(4)A-P(7)(7)(7)-NN			
Brushed metal bezels 	1	A22NN-MPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MPA-(4)(4)A-G(7)(7)(7)-NN		NR: Opaque, red NG: Opaque, green NY: Opaque, yellow NW: Opaque, white NA: Opaque, blue NB: Opaque, black UR: Transparent, red UG: Transparent, green UY: Transparent, yellow UW: Transparent, white UA: Transparent, blue UO: Transparent, orange	100 002
		A22NN-MPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MPA-(4)(4)A-P(7)(7)(7)-NN			
	2	A22NN-MPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MPA-(4)(4)A-G(7)(7)(7)-NN			101 102 202
		A22NN-MPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MPA-(4)(4)A-P(7)(7)(7)-NN			
	3	A22NN-MPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MPA-(4)(4)A-G(7)(7)(7)-NN			111 112 122 222
		A22NN-MPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MPA-(4)(4)A-P(7)(7)(7)-NN			
Metal bezels 	1	A22NN-RPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RPA-(4)(4)A-G(7)(7)(7)-NN	NR: Opaque, red NG: Opaque, green NY: Opaque, yellow NW: Opaque, white NA: Opaque, blue NB: Opaque, black UR: Transparent, red UG: Transparent, green UY: Transparent, yellow UW: Transparent, white UA: Transparent, blue UO: Transparent, orange		100 002
		A22NN-RPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RPA-(4)(4)A-P(7)(7)(7)-NN			
	2	A22NN-RPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RPA-(4)(4)A-G(7)(7)(7)-NN			101 102 202
		A22NN-RPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RPA-(4)(4)A-P(7)(7)(7)-NN			
	3	A22NN-RPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RPA-(4)(4)A-G(7)(7)(7)-NN			111 112 122 222
		A22NN-RPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RPA-(4)(4)A-P(7)(7)(7)-NN			

Lighted, Projected Switches

Appearance	Contacts	Momentary action (self-resetting)	Alternate action (self-holding)	(4)(4) Button color	(7)(7)(7) Contacts	(8) LED Lamp color	(9) LED Lamp voltage							
		Model	Model											
Plastic bezels 	1	A22NL-BPM-(4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-BPA-(4)(4)A-G(7)(7)(7)-(8)(9)	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 W: White A: Blue O: Orange	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC							
		A22NL-BPM-(4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-BPA-(4)(4)A-P(7)(7)(7)-(8)(9)											
	2	A22NL-BPM-(4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-BPA-(4)(4)A-G(7)(7)(7)-(8)(9)		101 102 202									
		A22NL-BPM-(4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-BPA-(4)(4)A-P(7)(7)(7)-(8)(9)											
	Brushed metal bezels 	1	A22NL-MPM-(4)(4)A-G(7)(7)(7)-(8)(9)		A22NL-MPA-(4)(4)A-G(7)(7)(7)-(8)(9)			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 W: White A: Blue O: Orange	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC			
			A22NL-MPM-(4)(4)A-P(7)(7)(7)-(8)(9)		A22NL-MPA-(4)(4)A-P(7)(7)(7)-(8)(9)									
2		A22NL-MPM-(4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-MPA-(4)(4)A-G(7)(7)(7)-(8)(9)		101 102 202									
		A22NL-MPM-(4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-MPA-(4)(4)A-P(7)(7)(7)-(8)(9)											
Metal bezels 		1	A22NL-RPM-(4)(4)A-G(7)(7)(7)-(8)(9)		A22NL-RPA-(4)(4)A-G(7)(7)(7)-(8)(9)				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 W: White A: Blue O: Orange	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC
			A22NL-RPM-(4)(4)A-P(7)(7)(7)-(8)(9)		A22NL-RPA-(4)(4)A-P(7)(7)(7)-(8)(9)									
	2	A22NL-RPM-(4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-RPA-(4)(4)A-G(7)(7)(7)-(8)(9)		101 102 202									
		A22NL-RPM-(4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-RPA-(4)(4)A-P(7)(7)(7)-(8)(9)											

Note: Normally, the Button and LED Lamp with the same color are combined. However, opaque white is available by combining a white Button and yellow LED. A22N□-□□□-TWA-□□□□-Y□



■ Subassemblies: Refer to pages 9 to 12 and 82.
(You can order Operation Units, LED Lamps, Mounting Collars, and Contact Blocks individually.)

■ Specifications: Refer to page 13.
■ Dimensions: Refer to pages 15 to 17.
■ 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 (lighted models only), Mounting Collar, Contact Block, and Lighting Unit (lighted models only).

Non-lighted, Full-guard Switches

Appearance	Contacts	Momentary action (self-resetting)	Alternate action (self-holding)	(4)(4) Button color	(7)(7)(7) Contacts
		Model	Model		
	1	A22NN-BGM-(4)(4)A-G(7)(7)-NN	A22NN-BGA-(4)(4)A-G(7)(7)-NN	NR: Opaque, red NG: Opaque, green NY: Opaque, yellow NW: Opaque, white NA: Opaque, blue NB: Opaque, black UR: Transparent, red UG: Transparent, green UY: Transparent, yellow UW: Transparent, white UA: Transparent, blue UO: Transparent, orange	100 002
		A22NN-BGM-(4)(4)A-P(7)(7)-NN	A22NN-BGA-(4)(4)A-P(7)(7)-NN		
	2	A22NN-BGM-(4)(4)A-G(7)(7)-NN	A22NN-BGA-(4)(4)A-G(7)(7)-NN		101 102 202
		A22NN-BGM-(4)(4)A-P(7)(7)-NN	A22NN-BGA-(4)(4)A-P(7)(7)-NN		
	3	A22NN-BGM-(4)(4)A-G(7)(7)-NN	A22NN-BGA-(4)(4)A-G(7)(7)-NN		111 112 122 222
		A22NN-BGM-(4)(4)A-P(7)(7)-NN	A22NN-BGA-(4)(4)A-P(7)(7)-NN		
	1	A22NN-MGM-(4)(4)A-G(7)(7)-NN	A22NN-MGA-(4)(4)A-G(7)(7)-NN	UR: Transparent, red UG: Transparent, green UY: Transparent, yellow UW: Transparent, white UA: Transparent, blue UO: Transparent, orange	100 002
		A22NN-MGM-(4)(4)A-P(7)(7)-NN	A22NN-MGA-(4)(4)A-P(7)(7)-NN		
	2	A22NN-MGM-(4)(4)A-G(7)(7)-NN	A22NN-MGA-(4)(4)A-G(7)(7)-NN		101 102 202
		A22NN-MGM-(4)(4)A-P(7)(7)-NN	A22NN-MGA-(4)(4)A-P(7)(7)-NN		
	3	A22NN-MGM-(4)(4)A-G(7)(7)-NN	A22NN-MGA-(4)(4)A-G(7)(7)-NN		111 112 122 222
		A22NN-MGM-(4)(4)A-P(7)(7)-NN	A22NN-MGA-(4)(4)A-P(7)(7)-NN		

Lighted, Full-guard Switches

Appearance	Contacts	Momentary action (self-resetting)	Alternate action (self-holding)	(4)(4) Button color	(7)(7)(7) Contacts	(8) LED Lamp color	(9) LED Lamp voltage
		Model	Model				
	1	A22NL-BGM-(4)(4)A-G(7)(7)-(8)(9)	A22NL-BGA-(4)(4)A-G(7)(7)-(8)(9)	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 W: White A: Blue O: Orange	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC
		A22NL-BGM-(4)(4)A-P(7)(7)-(8)(9)	A22NL-BGA-(4)(4)A-P(7)(7)-(8)(9)				
	2	A22NL-BGM-(4)(4)A-G(7)(7)-(8)(9)	A22NL-BGA-(4)(4)A-G(7)(7)-(8)(9)		101 102 202		
		A22NL-BGM-(4)(4)A-P(7)(7)-(8)(9)	A22NL-BGA-(4)(4)A-P(7)(7)-(8)(9)				
	1	A22NL-MGM-(4)(4)A-G(7)(7)-(8)(9)	A22NL-MGA-(4)(4)A-G(7)(7)-(8)(9)	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 W: White A: Blue O: Orange	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC
		A22NL-MGM-(4)(4)A-P(7)(7)-(8)(9)	A22NL-MGA-(4)(4)A-P(7)(7)-(8)(9)				
	2	A22NL-MGM-(4)(4)A-G(7)(7)-(8)(9)	A22NL-MGA-(4)(4)A-G(7)(7)-(8)(9)		101 102 202		
		A22NL-MGM-(4)(4)A-P(7)(7)-(8)(9)	A22NL-MGA-(4)(4)A-P(7)(7)-(8)(9)				

Note: Normally, the Button and LED Lamp with the same color are combined.
 However, opaque white is available by combining a white Button and yellow LED. A22N□-□□□-TWA-□□□□-Y□




■ Subassemblies: Refer to pages 9 to 12 and 82.
 (You can order Operation Units, LED Lamps, Mounting Collars, and Contact Blocks individually.)

■ Specifications: Refer to page 13.
 ■ Dimensions: Refer to pages 15 to 17.
 ■ 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 (lighted models only), Mounting Collar, Contact Block, and Lighting Unit (lighted models only).

Non-lighted, Mushroom Switches

Appearance	Contacts	Momentary action (self-resetting)	Alternate action (self-holding)	(4)(4) Button color	(7)(7)(7) Contacts	
		Model	Model			
Plastic bezels 	1	A22NN-BMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BMA-(4)(4)A-G(7)(7)(7)-NN	NR: Opaque, red NG: Opaque, green NY: Opaque, yellow NW: Opaque, white NA: Opaque, blue NB: Opaque, black UR: Transparent, red UG: Transparent, green UY: Transparent, yellow UW: Transparent, white UA: Transparent, blue UO: Transparent, orange	100 002	
		A22NN-BMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BMA-(4)(4)A-P(7)(7)(7)-NN			
	2	A22NN-BMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BMA-(4)(4)A-G(7)(7)(7)-NN		101 102 202	
		A22NN-BMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BMA-(4)(4)A-P(7)(7)(7)-NN			
	3	A22NN-BMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BMA-(4)(4)A-G(7)(7)(7)-NN		111 112 122 222	
		A22NN-BMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BMA-(4)(4)A-P(7)(7)(7)-NN			
Brushed metal bezels 	1	A22NN-MMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MMA-(4)(4)A-G(7)(7)(7)-NN		NR: Opaque, red NG: Opaque, green NY: Opaque, yellow NW: Opaque, white NA: Opaque, blue NB: Opaque, black UR: Transparent, red UG: Transparent, green UY: Transparent, yellow UW: Transparent, white UA: Transparent, blue UO: Transparent, orange	100 002
		A22NN-MMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MMA-(4)(4)A-P(7)(7)(7)-NN			
	2	A22NN-MMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MMA-(4)(4)A-G(7)(7)(7)-NN			101 102 202
		A22NN-MMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MMA-(4)(4)A-P(7)(7)(7)-NN			
	3	A22NN-MMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MMA-(4)(4)A-G(7)(7)(7)-NN			111 112 122 222
		A22NN-MMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MMA-(4)(4)A-P(7)(7)(7)-NN			
Metal bezels 	1	A22NN-RMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RMA-(4)(4)A-G(7)(7)(7)-NN	NR: Opaque, red NG: Opaque, green NY: Opaque, yellow NW: Opaque, white NA: Opaque, blue NB: Opaque, black UR: Transparent, red UG: Transparent, green UY: Transparent, yellow UW: Transparent, white UA: Transparent, blue UO: Transparent, orange		100 002
		A22NN-RMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RMA-(4)(4)A-P(7)(7)(7)-NN			
	2	A22NN-RMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RMA-(4)(4)A-G(7)(7)(7)-NN			101 102 202
		A22NN-RMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RMA-(4)(4)A-P(7)(7)(7)-NN			
	3	A22NN-RMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RMA-(4)(4)A-G(7)(7)(7)-NN			111 112 122 222
		A22NN-RMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RMA-(4)(4)A-P(7)(7)(7)-NN			

Lighted, Mushroom Switches

Appearance	Contacts	Momentary action (self-resetting)	Alternate action (self-holding)	(4)(4) Button color	(7)(7)(7) Contacts	(8) LED Lamp color	(9) LED Lamp voltage							
		Model	Model											
Plastic bezels 	1	A22NL-BMM-(4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-BMA-(4)(4)A-G(7)(7)(7)-(8)(9)	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 W: White A: Blue O: Orange	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC							
		A22NL-BMM-(4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-BMA-(4)(4)A-P(7)(7)(7)-(8)(9)											
	2	A22NL-BMM-(4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-BMA-(4)(4)A-G(7)(7)(7)-(8)(9)		101 102 202									
		A22NL-BMM-(4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-BMA-(4)(4)A-P(7)(7)(7)-(8)(9)											
	Brushed metal bezels 	1	A22NL-MMM-(4)(4)A-G(7)(7)(7)-(8)(9)		A22NL-MMA-(4)(4)A-G(7)(7)(7)-(8)(9)			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 W: White A: Blue O: Orange	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC			
			A22NL-MMM-(4)(4)A-P(7)(7)(7)-(8)(9)		A22NL-MMA-(4)(4)A-P(7)(7)(7)-(8)(9)									
2		A22NL-MMM-(4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-MMA-(4)(4)A-G(7)(7)(7)-(8)(9)		101 102 202									
		A22NL-MMM-(4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-MMA-(4)(4)A-P(7)(7)(7)-(8)(9)											
Metal bezels 		1	A22NL-RMM-(4)(4)A-G(7)(7)(7)-(8)(9)		A22NL-RMA-(4)(4)A-G(7)(7)(7)-(8)(9)				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 W: White A: Blue O: Orange	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC
			A22NL-RMM-(4)(4)A-P(7)(7)(7)-(8)(9)		A22NL-RMA-(4)(4)A-P(7)(7)(7)-(8)(9)									
	2	A22NL-RMM-(4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-RMA-(4)(4)A-G(7)(7)(7)-(8)(9)		101 102 202									
		A22NL-RMM-(4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-RMA-(4)(4)A-P(7)(7)(7)-(8)(9)											

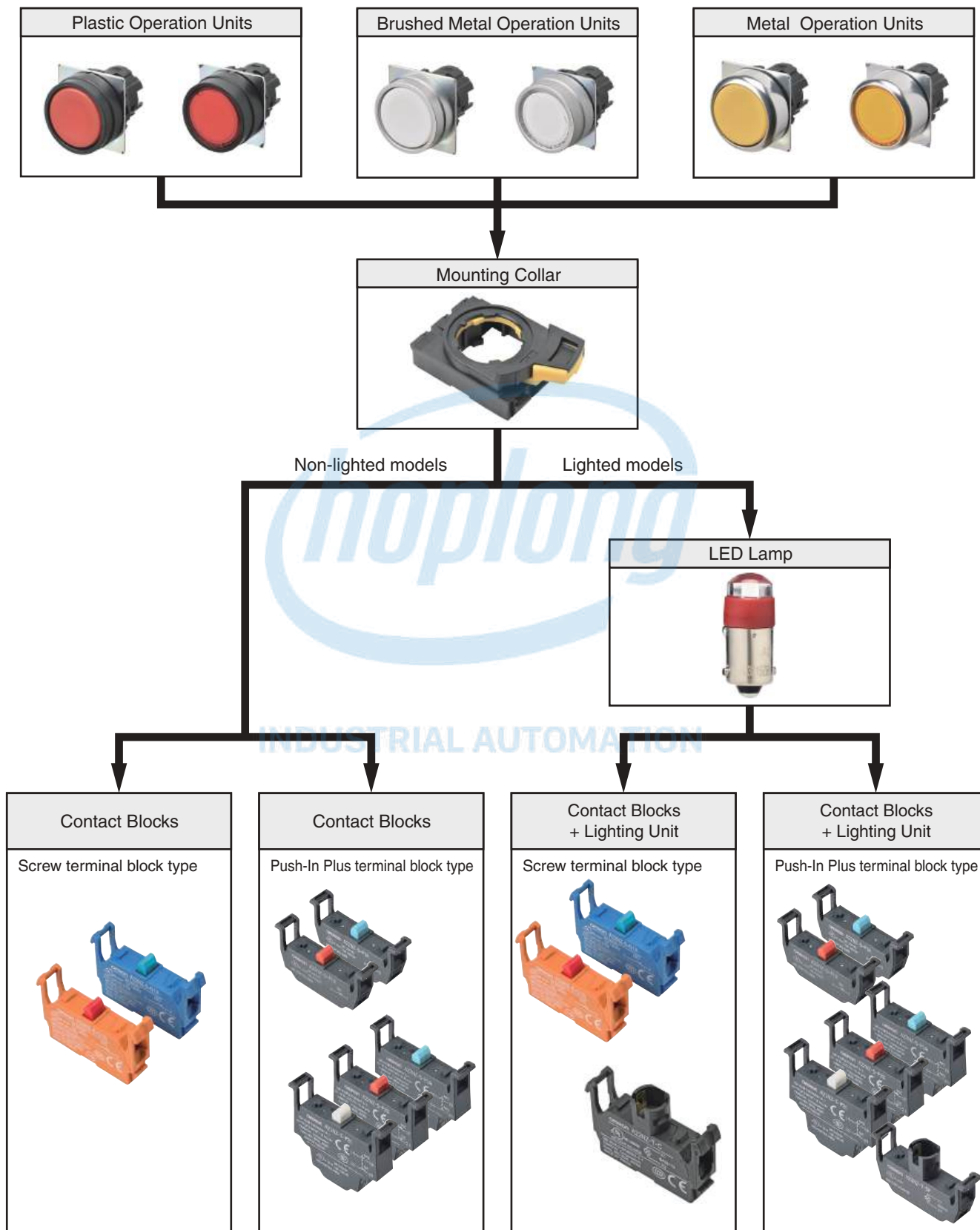
Note: Normally, the Button and LED Lamp with the same color are combined. However, opaque white is available by combining a white Button and yellow LED. A22N□-□□□-TWA-□□□□-Y□

■ Subassemblies: Refer to pages 9 to 12 and 82.
(You can order Operation Units, LED Lamps, Mounting Collars, and Contact Blocks individually.)

■ Specifications: Refer to page 13.
■ Dimensions: Refer to pages 15 to 17.
■ Accessories and tools: Refer to pages 84 to 85.

Ordering Information

Switch Structure - - - You can order Operation Units, LED Lamps (lighted models only), Mounting Collars, Contact Blocks, and Lighting Units (lighted models only) separately. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.



- Model numbers of sets: Refer to pages 5 to 8.
- Subassemblies (Common): Refer to page 82.

- Specifications: Refer to page 13.
- Dimensions: Refer to pages 15 to 17.
- Accessories and tools: Refer to pages 84 to 85.

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

Ordering Information

Subassemblies - - - - You can order Operation Units, LED Lamps (lighted models only), Mounting Collars, Contact Blocks, and Lighting Units (lighted models only) separately. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.

Operation Units

Bezel material and button shape			Plastic, flat		Plastic, projected	
						
Lighted/ non-lighted	Switch Action		Momentary	Alternate	Momentary	Alternate
	Transparency	Color	Model	Model	Model	Model
Non-lighted	Opaque	Red	A22NZ-BNM-NRA	A22NZ-BNA-NRA	A22NZ-BPM-NRA	A22NZ-BPA-NRA
	Opaque	Green	A22NZ-BNM-NGA	A22NZ-BNA-NGA	A22NZ-BPM-NGA	A22NZ-BPA-NGA
	Opaque	Yellow	A22NZ-BNM-NYA	A22NZ-BNA-NYA	A22NZ-BPM-NYA	A22NZ-BPA-NYA
	Opaque	White	A22NZ-BNM-NWA	A22NZ-BNA-NWA	A22NZ-BPM-NWA	A22NZ-BPA-NWA
	Opaque	Blue	A22NZ-BNM-NAA	A22NZ-BNA-NAA	A22NZ-BPM-NAA	A22NZ-BPA-NAA
	Opaque	Black	A22NZ-BNM-NBA	A22NZ-BNA-NBA	A22NZ-BPM-NBA	A22NZ-BPA-NBA
	Transparent	Red	A22NZ-BNM-URA	A22NZ-BNA-URA	A22NZ-BPM-URA	A22NZ-BPA-URA
	Transparent	Green	A22NZ-BNM-UGA	A22NZ-BNA-UGA	A22NZ-BPM-UGA	A22NZ-BPA-UGA
	Transparent	Yellow	A22NZ-BNM-UYA	A22NZ-BNA-UYA	A22NZ-BPM-UYA	A22NZ-BPA-UYA
	Transparent	White	A22NZ-BNM-UWA	A22NZ-BNA-UWA	A22NZ-BPM-UWA	A22NZ-BPA-UWA
	Transparent	Blue	A22NZ-BNM-UAA	A22NZ-BNA-UAA	A22NZ-BPM-UAA	A22NZ-BPA-UAA
	Transparent	Orange	A22NZ-BNM-UOA	A22NZ-BNA-UOA	A22NZ-BPM-UOA	A22NZ-BPA-UOA
Lighted	Transparent	Red	A22NZ-BNM-TRA	A22NZ-BNA-TRA	A22NZ-BPM-TRA	A22NZ-BPA-TRA
	Transparent	Green	A22NZ-BNM-TGA	A22NZ-BNA-TGA	A22NZ-BPM-TGA	A22NZ-BPA-TGA
	Transparent	Yellow	A22NZ-BNM-TYA	A22NZ-BNA-TYA	A22NZ-BPM-TYA	A22NZ-BPA-TYA
	Transparent	White	A22NZ-BNM-TWA	A22NZ-BNA-TWA	A22NZ-BPM-TWA	A22NZ-BPA-TWA
	Transparent	Blue	A22NZ-BNM-TAA	A22NZ-BNA-TAA	A22NZ-BPM-TAA	A22NZ-BPA-TAA
	Transparent	Orange	A22NZ-BNM-TOA	A22NZ-BNA-TOA	A22NZ-BPM-TOA	A22NZ-BPA-TOA

Bezel material and button shape			Plastic, full-guard		Plastic, mushroom	
						
Lighted/ non-lighted	Switch Action		Momentary	Alternate	Momentary	Alternate
	Transparency	Color	Model	Model	Model	Model
Non-lighted	Opaque	Red	A22NZ-BGM-NRA	A22NZ-BGA-NRA	A22NZ-BMM-NRA	A22NZ-BMA-NRA
	Opaque	Green	A22NZ-BGM-NGA	A22NZ-BGA-NGA	A22NZ-BMM-NGA	A22NZ-BMA-NGA
	Opaque	Yellow	A22NZ-BGM-NYA	A22NZ-BGA-NYA	A22NZ-BMM-NYA	A22NZ-BMA-NYA
	Opaque	White	A22NZ-BGM-NWA	A22NZ-BGA-NWA	A22NZ-BMM-NWA	A22NZ-BMA-NWA
	Opaque	Blue	A22NZ-BGM-NAA	A22NZ-BGA-NAA	A22NZ-BMM-NAA	A22NZ-BMA-NAA
	Opaque	Black	A22NZ-BGM-NBA	A22NZ-BGA-NBA	A22NZ-BMM-NBA	A22NZ-BMA-NBA
	Transparent	Red	A22NZ-BGM-URA	A22NZ-BGA-URA	A22NZ-BMM-URA	A22NZ-BMA-URA
	Transparent	Green	A22NZ-BGM-UGA	A22NZ-BGA-UGA	A22NZ-BMM-UGA	A22NZ-BMA-UGA
	Transparent	Yellow	A22NZ-BGM-UYA	A22NZ-BGA-UYA	A22NZ-BMM-UYA	A22NZ-BMA-UYA
	Transparent	White	A22NZ-BGM-UWA	A22NZ-BGA-UWA	A22NZ-BMM-UWA	A22NZ-BMA-UWA
	Transparent	Blue	A22NZ-BGM-UAA	A22NZ-BGA-UAA	A22NZ-BMM-UAA	A22NZ-BMA-UAA
	Transparent	Orange	A22NZ-BGM-UOA	A22NZ-BGA-UOA	A22NZ-BMM-UOA	A22NZ-BMA-UOA
Lighted	Transparent	Red	A22NZ-BGM-TRA	A22NZ-BGA-TRA	A22NZ-BMM-TRA	A22NZ-BMA-TRA
	Transparent	Green	A22NZ-BGM-TGA	A22NZ-BGA-TGA	A22NZ-BMM-TGA	A22NZ-BMA-TGA
	Transparent	Yellow	A22NZ-BGM-TYA	A22NZ-BGA-TYA	A22NZ-BMM-TYA	A22NZ-BMA-TYA
	Transparent	White	A22NZ-BGM-TWA	A22NZ-BGA-TWA	A22NZ-BMM-TWA	A22NZ-BMA-TWA
	Transparent	Blue	A22NZ-BGM-TAA	A22NZ-BGA-TAA	A22NZ-BMM-TAA	A22NZ-BMA-TAA
	Transparent	Orange	A22NZ-BGM-TOA	A22NZ-BGA-TOA	A22NZ-BMM-TOA	A22NZ-BMA-TOA


- Model numbers of sets: Refer to pages 5 to 8.
- Subassemblies (Common): Refer to page 82.



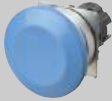
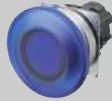
- Specifications: Refer to page 13.
- Dimensions: Refer to pages 15 to 17.
- Accessories and tools: Refer to pages 84 to 85.

Ordering Information

Subassemblies

----- You can order Operation Units, LED Lamps (lighted models only), Mounting Collars, Contact Blocks, and Lighting Units (lighted models only) separately. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.

Bezel material and button shape			Brushed metal, flat		Brushed metal, projected	
						
Lighted/ non-lighted	Switch Action		Momentary	Alternate	Momentary	Alternate
	Transparency	Color	Model	Model	Model	Model
Non-lighted	Opaque	Red	A22NZ-MNM-NRA	A22NZ-MNA-NRA	A22NZ-MPM-NRA	A22NZ-MPA-NRA
	Opaque	Green	A22NZ-MNM-NGA	A22NZ-MNA-NGA	A22NZ-MPM-NGA	A22NZ-MPA-NGA
	Opaque	Yellow	A22NZ-MNM-NYA	A22NZ-MNA-NYA	A22NZ-MPM-NYA	A22NZ-MPA-NYA
	Opaque	White	A22NZ-MNM-NWA	A22NZ-MNA-NWA	A22NZ-MPM-NWA	A22NZ-MPA-NWA
	Opaque	Blue	A22NZ-MNM-NAA	A22NZ-MNA-NAA	A22NZ-MPM-NAA	A22NZ-MPA-NAA
	Opaque	Black	A22NZ-MNM-NBA	A22NZ-MNA-NBA	A22NZ-MPM-NBA	A22NZ-MPA-NBA
	Transparent	Red	A22NZ-MNM-URA	A22NZ-MNA-URA	A22NZ-MPM-URA	A22NZ-MPA-URA
	Transparent	Green	A22NZ-MNM-UGA	A22NZ-MNA-UGA	A22NZ-MPM-UGA	A22NZ-MPA-UGA
	Transparent	Yellow	A22NZ-MNM-UYA	A22NZ-MNA-UYA	A22NZ-MPM-UYA	A22NZ-MPA-UYA
	Transparent	White	A22NZ-MNM-UWA	A22NZ-MNA-UWA	A22NZ-MPM-UWA	A22NZ-MPA-UWA
	Transparent	Blue	A22NZ-MNM-UAA	A22NZ-MNA-UAA	A22NZ-MPM-UAA	A22NZ-MPA-UAA
Lighted	Transparent	Orange	A22NZ-MNM-UOA	A22NZ-MNA-UOA	A22NZ-MPM-UOA	A22NZ-MPA-UOA
	Transparent	Red	A22NZ-MNM-TRA	A22NZ-MNA-TRA	A22NZ-MPM-TRA	A22NZ-MPA-TRA
	Transparent	Green	A22NZ-MNM-TGA	A22NZ-MNA-TGA	A22NZ-MPM-TGA	A22NZ-MPA-TGA
	Transparent	Yellow	A22NZ-MNM-TYA	A22NZ-MNA-TYA	A22NZ-MPM-TYA	A22NZ-MPA-TYA
	Transparent	White	A22NZ-MNM-TWA	A22NZ-MNA-TWA	A22NZ-MPM-TWA	A22NZ-MPA-TWA
	Transparent	Blue	A22NZ-MNM-TAA	A22NZ-MNA-TAA	A22NZ-MPM-TAA	A22NZ-MPA-TAA
Transparent	Orange	A22NZ-MNM-TOA	A22NZ-MNA-TOA	A22NZ-MPM-TOA	A22NZ-MPA-TOA	

Bezel material and button shape			Brushed metal, full-guard		Brushed metal, mushroom	
						
Lighted/ non-lighted	Switch Action		Momentary	Alternate	Momentary	Alternate
	Transparency	Color	Model	Model	Model	Model
Non-lighted	Opaque	Red	A22NZ-MGM-NRA	A22NZ-MGA-NRA	A22NZ-MMM-NRA	A22NZ-MMA-NRA
	Opaque	Green	A22NZ-MGM-NGA	A22NZ-MGA-NGA	A22NZ-MMM-NGA	A22NZ-MMA-NGA
	Opaque	Yellow	A22NZ-MGM-NYA	A22NZ-MGA-NYA	A22NZ-MMM-NYA	A22NZ-MMA-NYA
	Opaque	White	A22NZ-MGM-NWA	A22NZ-MGA-NWA	A22NZ-MMM-NWA	A22NZ-MMA-NWA
	Opaque	Blue	A22NZ-MGM-NAA	A22NZ-MGA-NAA	A22NZ-MMM-NAA	A22NZ-MMA-NAA
	Opaque	Black	A22NZ-MGM-NBA	A22NZ-MGA-NBA	A22NZ-MMM-NBA	A22NZ-MMA-NBA
	Transparent	Red	A22NZ-MGM-URA	A22NZ-MGA-URA	A22NZ-MMM-URA	A22NZ-MMA-URA
	Transparent	Green	A22NZ-MGM-UGA	A22NZ-MGA-UGA	A22NZ-MMM-UGA	A22NZ-MMA-UGA
	Transparent	Yellow	A22NZ-MGM-UYA	A22NZ-MGA-UYA	A22NZ-MMM-UYA	A22NZ-MMA-UYA
	Transparent	White	A22NZ-MGM-UWA	A22NZ-MGA-UWA	A22NZ-MMM-UWA	A22NZ-MMA-UWA
	Transparent	Blue	A22NZ-MGM-UAA	A22NZ-MGA-UAA	A22NZ-MMM-UAA	A22NZ-MMA-UAA
Lighted	Transparent	Orange	A22NZ-MGM-UOA	A22NZ-MGA-UOA	A22NZ-MMM-UOA	A22NZ-MMA-UOA
	Transparent	Red	A22NZ-MGM-TRA	A22NZ-MGA-TRA	A22NZ-MMM-TRA	A22NZ-MMA-TRA
	Transparent	Green	A22NZ-MGM-TGA	A22NZ-MGA-TGA	A22NZ-MMM-TGA	A22NZ-MMA-TGA
	Transparent	Yellow	A22NZ-MGM-TYA	A22NZ-MGA-TYA	A22NZ-MMM-TYA	A22NZ-MMA-TYA
	Transparent	White	A22NZ-MGM-TWA	A22NZ-MGA-TWA	A22NZ-MMM-TWA	A22NZ-MMA-TWA
	Transparent	Blue	A22NZ-MGM-TAA	A22NZ-MGA-TAA	A22NZ-MMM-TAA	A22NZ-MMA-TAA
Transparent	Orange	A22NZ-MGM-TOA	A22NZ-MGA-TOA	A22NZ-MMM-TOA	A22NZ-MMA-TOA	

■ Model numbers of sets: Refer to pages 5 to 8.
 ■ Subassemblies (Common): Refer to page 82.

■ Specifications: Refer to page 13.
 ■ Dimensions: Refer to pages 15 to 17.
 ■ Accessories and tools: Refer to pages 84 to 85.

Ordering Information

Subassemblies

----- You can order Operation Units, LED Lamps (lighted models only), Mounting Collars, Contact Blocks, and Lighting Units (lighted models only) separately. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.

Bezel material and button shape			Metal, flat		Metal, projected	
			Switch Action		Momentary	Alternate
Lighted/ non-lighted	Transparency	Color	Model	Model	Model	Model
			Non-lighted	Opaque	Red	A22NZ-RNM-NRA
Opaque	Green	A22NZ-RNM-NGA		A22NZ-RNA-NGA	A22NZ-RPM-NGA	A22NZ-RPA-NGA
Opaque	Yellow	A22NZ-RNM-NYA		A22NZ-RNA-NYA	A22NZ-RPM-NYA	A22NZ-RPA-NYA
Opaque	White	A22NZ-RNM-NWA		A22NZ-RNA-NWA	A22NZ-RPM-NWA	A22NZ-RPA-NWA
Opaque	Blue	A22NZ-RNM-NAA		A22NZ-RNA-NAA	A22NZ-RPM-NAA	A22NZ-RPA-NAA
Opaque	Black	A22NZ-RNM-NBA		A22NZ-RNA-NBA	A22NZ-RPM-NBA	A22NZ-RPA-NBA
Transparent	Red	A22NZ-RNM-URA		A22NZ-RNA-URA	A22NZ-RPM-URA	A22NZ-RPA-URA
Transparent	Green	A22NZ-RNM-UGA		A22NZ-RNA-UGA	A22NZ-RPM-UGA	A22NZ-RPA-UGA
Transparent	Yellow	A22NZ-RNM-UYA		A22NZ-RNA-UYA	A22NZ-RPM-UYA	A22NZ-RPA-UYA
Transparent	White	A22NZ-RNM-UWA		A22NZ-RNA-UWA	A22NZ-RPM-UWA	A22NZ-RPA-UWA
Transparent	Blue	A22NZ-RNM-UAA		A22NZ-RNA-UAA	A22NZ-RPM-UAA	A22NZ-RPA-UAA
Transparent	Orange	A22NZ-RNM-UOA		A22NZ-RNA-UOA	A22NZ-RPM-UOA	A22NZ-RPA-UOA
Lighted	Transparent	Red	A22NZ-RNM-TRA	A22NZ-RNA-TRA	A22NZ-RPM-TRA	A22NZ-RPA-TRA
	Transparent	Green	A22NZ-RNM-TGA	A22NZ-RNA-TGA	A22NZ-RPM-TGA	A22NZ-RPA-TGA
	Transparent	Yellow	A22NZ-RNM-TYA	A22NZ-RNA-TYA	A22NZ-RPM-TYA	A22NZ-RPA-TYA
	Transparent	White	A22NZ-RNM-TWA	A22NZ-RNA-TWA	A22NZ-RPM-TWA	A22NZ-RPA-TWA
	Transparent	Blue	A22NZ-RNM-TAA	A22NZ-RNA-TAA	A22NZ-RPM-TAA	A22NZ-RPA-TAA
	Transparent	Orange	A22NZ-RNM-TOA	A22NZ-RNA-TOA	A22NZ-RPM-TOA	A22NZ-RPA-TOA

Bezel material and button shape			Metal, mushroom	
			Switch Action	
Lighted/ non-lighted	Transparency	Color	Model	Model
			Non-lighted	Opaque
Opaque	Green	A22NZ-RMM-NGA		A22NZ-RMA-NGA
Opaque	Yellow	A22NZ-RMM-NYA		A22NZ-RMA-NYA
Opaque	White	A22NZ-RMM-NWA		A22NZ-RMA-NWA
Opaque	Blue	A22NZ-RMM-NAA		A22NZ-RMA-NAA
Opaque	Black	A22NZ-RMM-NBA		A22NZ-RMA-NBA
Transparent	Red	A22NZ-RMM-URA		A22NZ-RMA-URA
Transparent	Green	A22NZ-RMM-UGA		A22NZ-RMA-UGA
Transparent	Yellow	A22NZ-RMM-UYA		A22NZ-RMA-UYA
Transparent	White	A22NZ-RMM-UWA		A22NZ-RMA-UWA
Transparent	Blue	A22NZ-RMM-UAA		A22NZ-RMA-UAA
Transparent	Orange	A22NZ-RMM-UOA		A22NZ-RMA-UOA
Lighted	Transparent	Red	A22NZ-RMM-TRA	A22NZ-RMA-TRA
	Transparent	Green	A22NZ-RMM-TGA	A22NZ-RMA-TGA
	Transparent	Yellow	A22NZ-RMM-TYA	A22NZ-RMA-TYA
	Transparent	White	A22NZ-RMM-TWA	A22NZ-RMA-TWA
	Transparent	Blue	A22NZ-RMM-TAA	A22NZ-RMA-TAA
	Transparent	Orange	A22NZ-RMM-TOA	A22NZ-RMA-TOA

■ Model numbers of sets: Refer to pages 5 to 8.
 ■ Subassemblies (Common): Refer to page 82.

■ Specifications: Refer to page 13.
 ■ Dimensions: Refer to pages 15 to 17.
 ■ Accessories and tools: Refer to pages 84 to 85.

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 ±2°C
- (2) Ambient humidity: 65% ±5% 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 ±10%	Approx. 11 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
12 VAC/DC	12 VAC/DC ±10%	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
24 VAC/DC	24 VAC/DC ±10%	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
100 VAC	100 VAC ±10%	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
110 VAC	110 VAC ±10%	
120 VAC	100 to 130 VAC	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
200 VAC	200 VAC ±10%	
220 VAC	220 VAC ±10%	
230 VAC	230 VAC ±10%	
240 VAC	220 to 250 VAC	

Specifications

Characteristics

Item	Type	Pushbutton Switches	
		Non-lighted models	Lighted models
Allowable operating frequency	Mechanical	60 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	Momentary action: 5,000,000 operations min. Alternate action: 500,000 operations min.	
	Electrical	500,000 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, NEMA 4X, NEMA13	
Electric shock protection class		Class II	
PTI (tracking characteristic)		175	
Degree of contamination (application environment)		3 (EN 60947-5-1)	
Weight		Approx. 50 g (for 1NC/1NO)	Approx. 65 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	Pushbutton Switches
		Lighted/non-lighted
Total travel force (torque) (maximum TTF)		18 N
Total travel (TT)		6 mm max.
Resetting force (torque) (RF)		---

Examples of Linked Contact Blocks (Screw terminal block type)

Contact Blocks Lighting Units

	Pushbutton Switches			
	Momentary		Alternate	
	Lighted	Non-lighted	Lighted	Non-lighted
Linking example				

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.

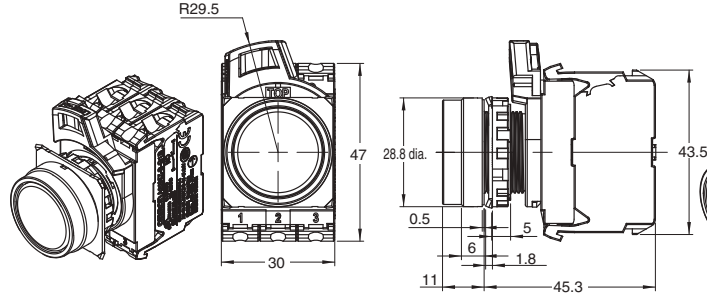
Dimensions

(Unit: mm)

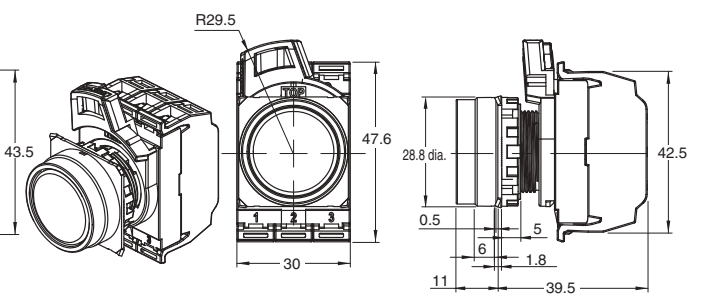
Lighted and Non-lighted Pushbutton Switches

Flat Switches with Plastic Bezels

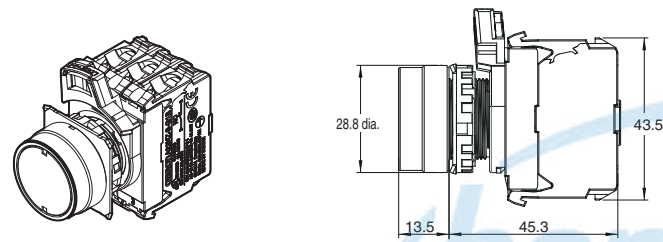
A22NN-BN□-N□A-G□-NN



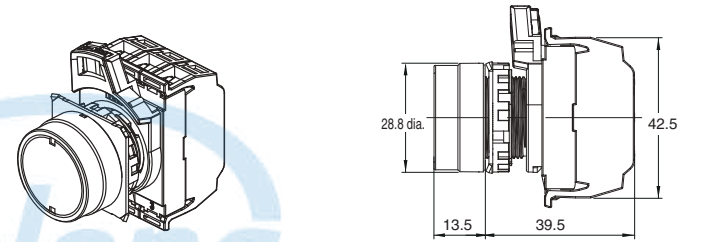
A22NN-BN□-N□A-P□-NN



A22NL-BN□-T□A-G□-□□
A22NN-BN□-U□A-G□-NN

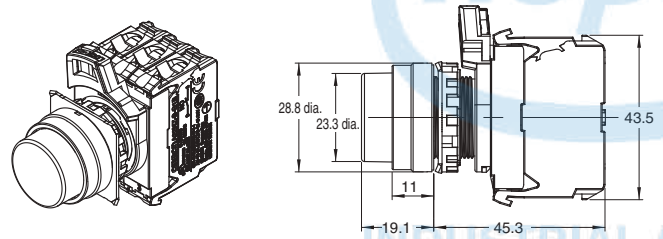


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A22NN-BN□-U□A-P□-NN

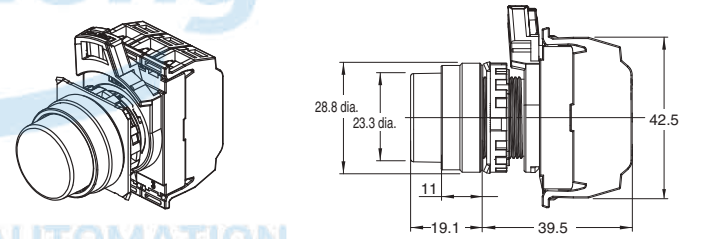


Projected Switches with Plastic Bezels

A22N□-BP□-□A-G□-□□

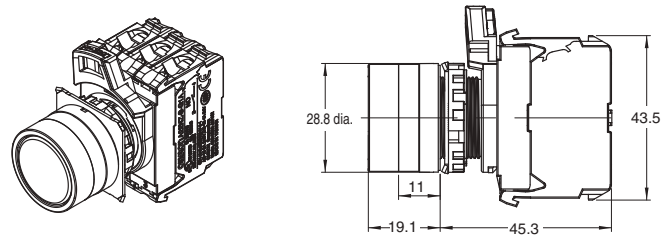


A22N□-BP□-□A-P□-□□

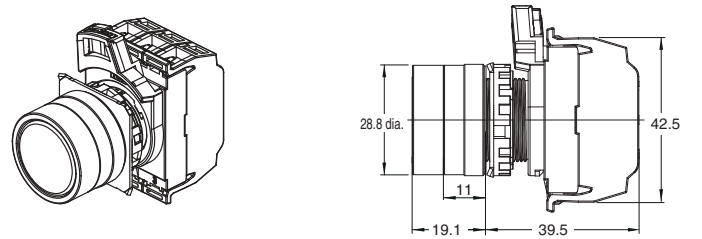


Full-guard Switches with Plastic Bezels

A22N□-BG□-□A-G□-□□

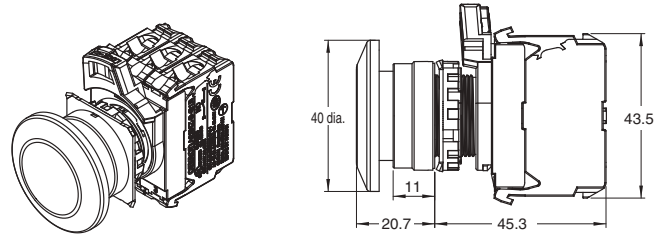


A22N□-BG□-□A-P□-□□

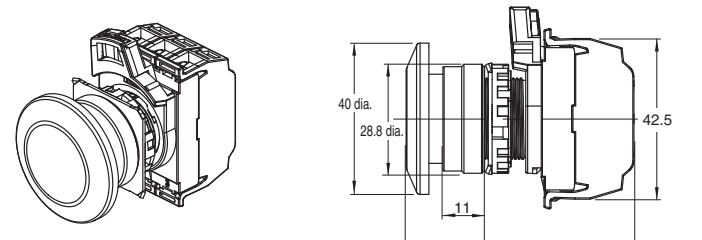


Mushroom Switches with Plastic Bezels

A22N□-BM□-□A-G□-□□



A22N□-BM□-□A-P□-□□



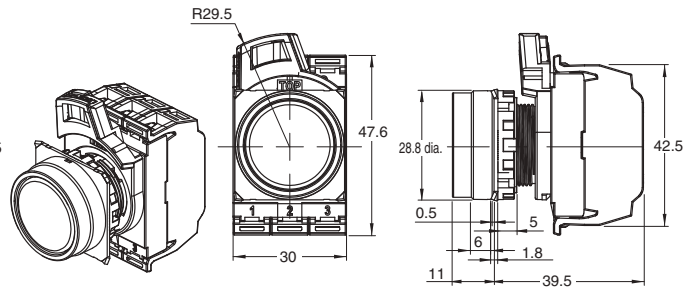
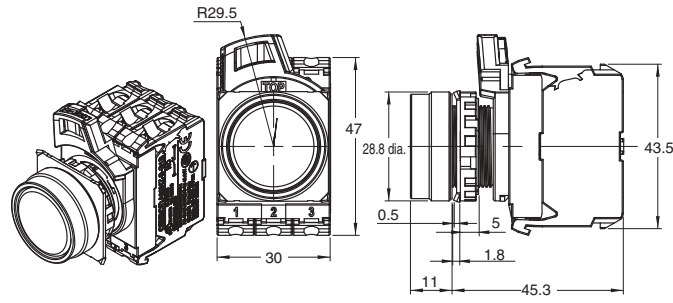
Dimensions

(Unit: mm)

Flat Switches with Brushed Metal Bezels

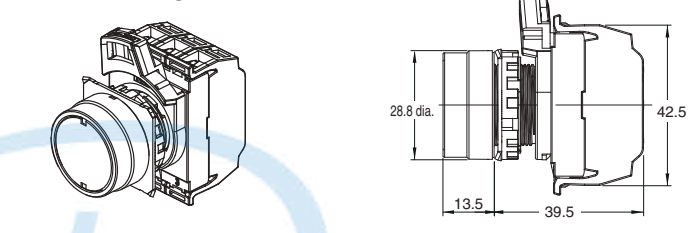
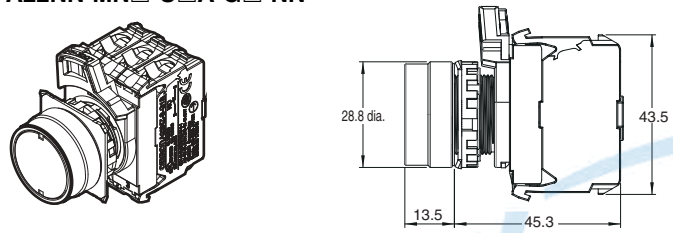
A22NN-MN□-N□A-G□-NN

A22NN-MN□-N□A-P□-NN



A22NL-MN□-T□A-G□-□□
A22NN-MN□-U□A-G□-NN

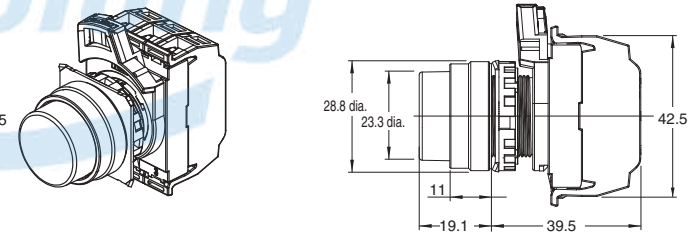
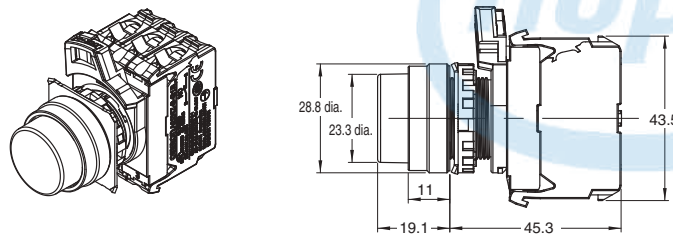
A22NL-MN□-T□A-P□-□□
A22NN-MN□-U□A-P□-NN



Projected Switches with Brushed Metal Bezels

A22N□-MP□-□A-G□-□□

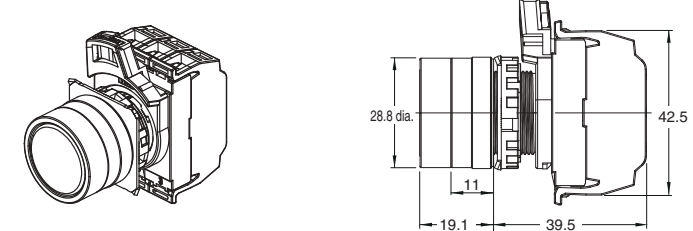
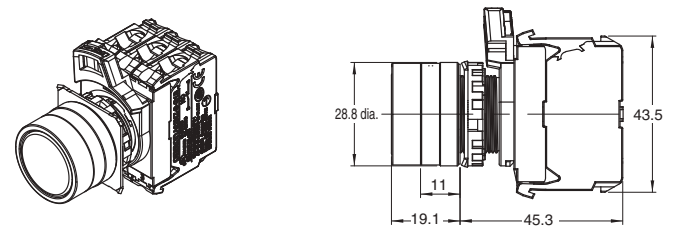
A22N□-MP□-□A-P□-□□



Full-guard Switches with Brushed Metal Bezels

A22N□-MG□-□A-G□-□□

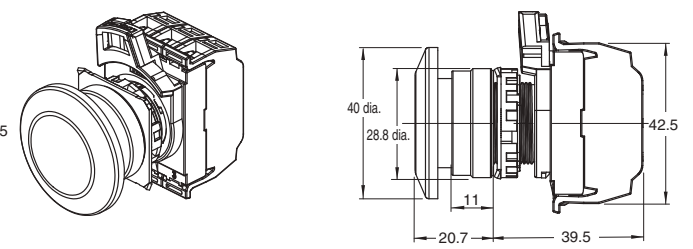
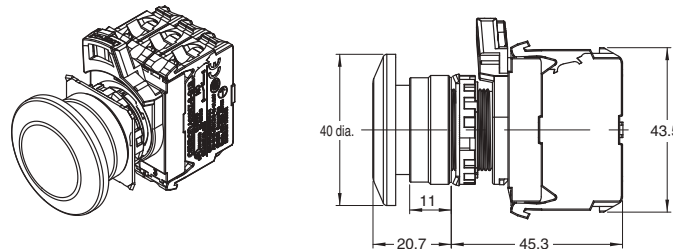
A22N□-MG□-□A-P□-□□



Mushroom Switches with Brushed Metal Bezels

A22N□-MM□-□A-G□-□□

A22N□-MM□-□A-P□-□□



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

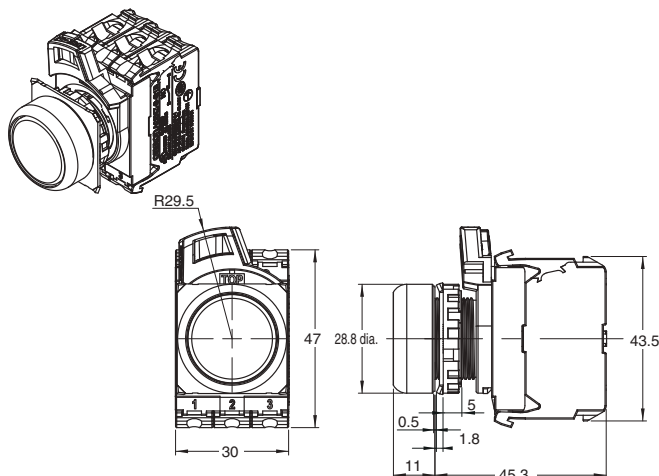
Safety
Precautions

Dimensions

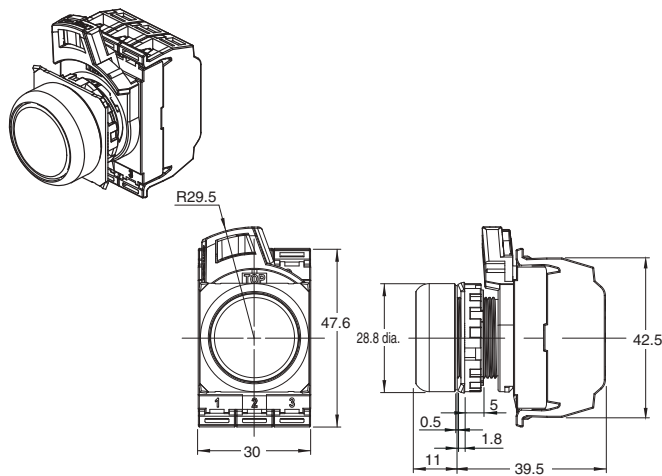
(Unit: mm)

Flat Switches with Metal Bezels

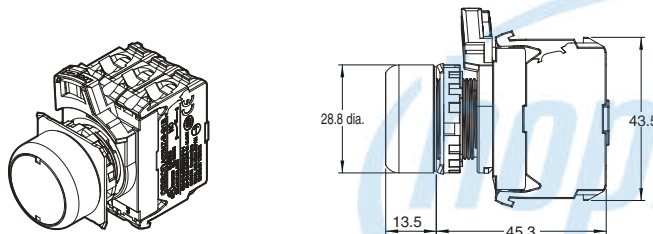
A22NN-RN□-N□A-G□-NN



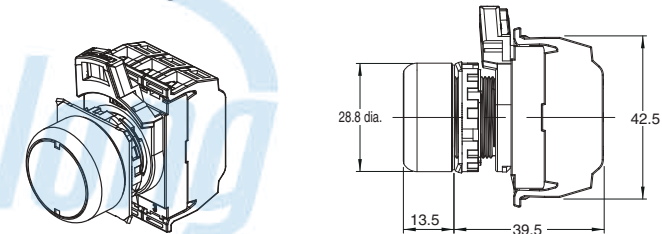
A22NN-RN□-N□A-P□-NN



A22NL-RN□-T□A-G□-□□
A22NN-RN□-U□A-G□-NN

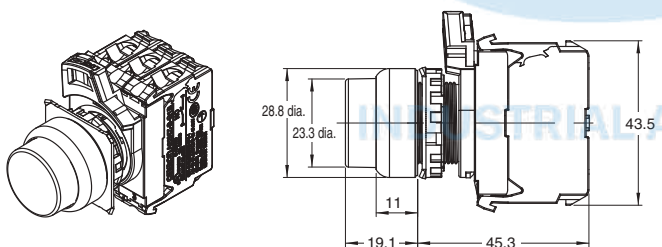


A22NL-RN□-T□A-P□-□□
A22NN-RN□-U□A-P□-NN

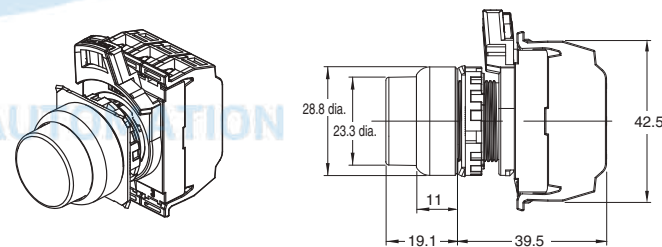


Projected Switches with Metal Bezels

A22N□-RP□-□A-G□-□□

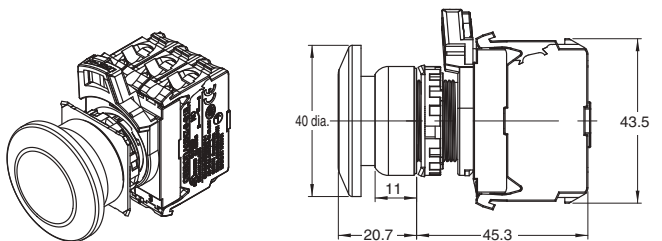


A22N□-RP□-□A-P□-□□

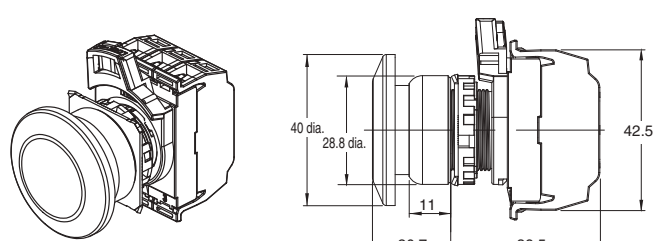


Mushroom Switches with Metal Bezels

A22N□-RM□-□A-G□-□□



A22N□-RM□-□A-P□-□□



Pushbutton Switches
A22N

Selector Switches
A22N

Key-type Selector Switches
A22N

Indicators
M22N

Pushbutton Switches
A30N

Selector Switches
A30N

Key-type Selector Switches
A30N

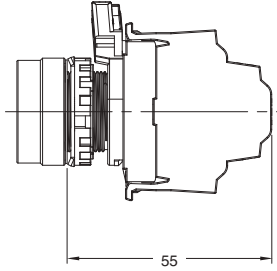
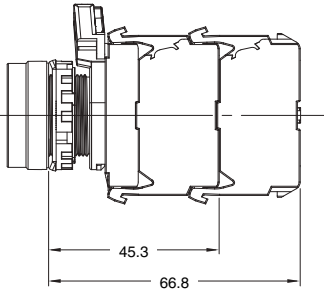
Subassemblies (Common)

Accessories and Tools

Safety Precautions

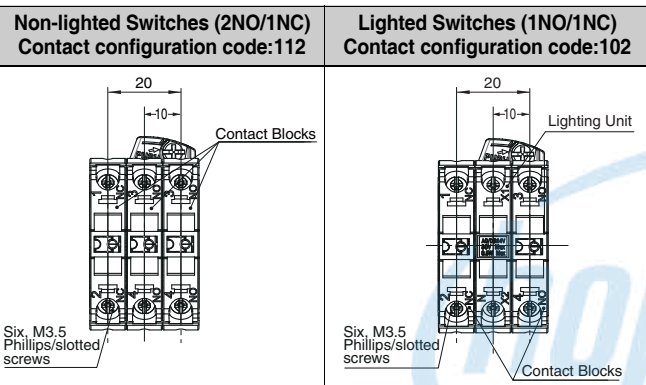
**Depth with Linked Units
(Screw terminal block type)**

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

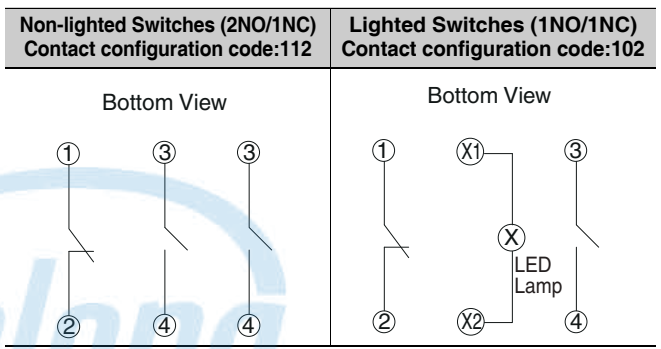


Terminal Arrangement

BOTTOM VIEW (Screw terminal block type)

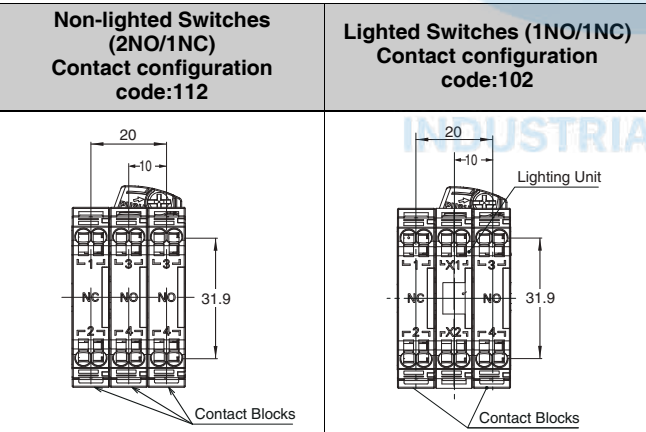


Terminal Connection Diagrams

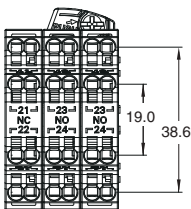


Note: The above shows a terminal connection diagram for a screw terminal block type.

**BOTTOM VIEW
(Push-In Plus terminal block type)**



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



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

MEMO



INDUSTRIAL AUTOMATION

Selector Switches A22NS/A22NW

22-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.



Easy to Use

- Improved wiring visibility through to a modified wiring direction. (Push-In Plus terminal block type)
- Screw terminal structure is compatible with round crimp terminals. (Screw terminal block type)
- The terminals can be secured even when a contact block is mounted. (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

- Meets global safety standards.
- Can be installed in two types of panel hole dimensions: 22.3 and 25.5 dia.
- The buttons and bezels come in a wide variety of colors, shapes, and materials.
- Standard-feature degree of protection: IP66, NEMA 4X, and NEMA 13.

Refer to *Safety Precautions for All Pushbutton Switches/Indicators and Safety Precautions* on page 89.

Miniaturization

- No need for extra lateral space because of the modified wiring direction. (Push-In Plus terminal block type)
- Compact design.
- A22NW (lighted models) are the same size as A22NS (non-lighted models).





Operation Unit Colors

		Red	Green	Yellow	White	Blue	Black		
Non-lighted Switches	A22NS-□□□-N□ Opaque								
Lighted Switches	A22NW-□□□-T□ Transparent	When not lit							
		When lit							
		When not lit							
		When lit							

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

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

List of Models

Screw Terminal Blocks/Push-In Plus Terminal Blocks			
Plastic bezels			
A22NS-□B		A22NW-□B	
Non-lighted Two Positions	Three Positions	Lighted Two Positions	Three Positions
			
Screw Terminal Blocks/Push-In Plus Terminal Blocks			
Brushed Metal bezels			
A22NS-□M		A22NW-□M	
Non-lighted Two Positions	Three Positions	Lighted Two Positions	Three Positions
			
Screw Terminal Blocks/Push-In Plus Terminal Blocks			
Metal bezels			
A22NS-□R		A22NW-□R	
Non-lighted Two Positions	Three Positions	Lighted Two Positions	Three Positions
			

Pushbutton Switches
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Selector Switches
A22N

Key-type Selector Switches
A22N

Indicators
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Pushbutton Switches
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Selector Switches
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Key-type Selector Switches
A30N

Subassemblies
(Common)

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Safety
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Model Number Structure

Model Number Legend

-- Shipped as a set that includes the Operation Unit, LED Lamp (lighted models only), Mounting Collar, Contact Block, and Lighting Unit (lighted models only).
For information on combinations, refer to *Ordering Information* on pages 25 to 27.

Model Numbers for Sets

A 2 2 N ⁽¹⁾ W - ⁽²⁾ 2 ⁽³⁾ B ⁽⁴⁾ M - ⁽⁵⁾ N ⁽⁶⁾ R ⁽⁷⁾ A - ⁽⁸⁾ G ⁽⁹⁾ 1 0 1 - R 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
2B	2	Plastic
2M	2	Brushed metal
2R	2	Metal
3B	3	Plastic
3M	3	Brushed metal
3R	3	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
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						

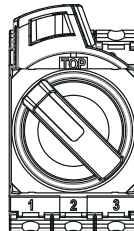
(3) Reset Method

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			Green	
	NY			Yellow	
	NW			White	
	NA			Blue	
	NB			Black	
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

Note: 1. NO (blue): Normally open, NC (orange): Normally closed.
2. Refer to the following figure for the Unit positions.



(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

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

■ Specifications: Refer to page 13
■ Dimensions: Refer to page 33.

■ Characteristics: Refer to page 32.
■ Precautions for correct use: Refer to pages 89 to 100.

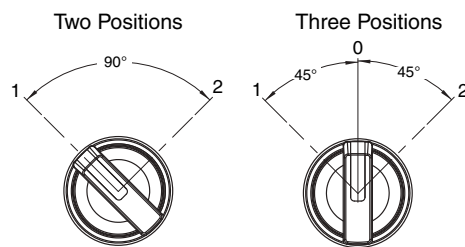
Structure

Contact Configuration Table

Two Positions

No. of outputs	Code	Contact configuration	Unit position	Contacts	Position	
					1	2
1	100	SPST-NO	1	NO		ON
			2	---	---	---
			3	---	---	---
1	002	SPST-NC	1	---	---	---
			2	---	---	---
			3	NC	ON	
2	102	SPST-NO/ SPST-NC	1	NO		ON
			2	---	---	---
			3	NC	ON	
2	101	DPST-NO	1	NO		ON
			2	---	---	---
			3	NO		ON
2	202	DPST-NC	1	NC	ON	
			2	---	---	---
			3	NC	ON	
3	111	3PST-NO	1	NO		ON
			2	NO		ON
			3	NO		ON
3	222	3PST-NC	1	NC	ON	
			2	NC	ON	
			3	NC	ON	
3	122	SPST-NO/ DPST-NC	1	NO		ON
			2	NC	ON	
			3	NC	ON	
3	112	DPST-NO/ SPST-NC	1	NO		ON
			2	NO		ON
			3	NC	ON	

Operation Angle



Three Positions

No. of outputs	Code	Contact configuration	Unit position	Contacts	Position		
					1	0	2
2	110	DPST-NO	1	NO	ON		
			2	NO	ON		ON
			3	---	---	---	---
2	011	DPST-NO	1	---	---	---	---
			2	NO	ON		ON
			3	NO			ON
2	101	DPST-NO	1	NO	ON		
			2	---	---	---	---
			3	NO			ON
2	220	DPST-NC	1	NC		ON	ON
			2	NC		ON	
			3	---	---	---	---
2	022	DPST-NC	1	---	---	---	---
			2	NC		ON	
			3	NC	ON	ON	

Pushbutton Switches
A22N

Selector Switches
A22N

Key-type Selector Switches
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Indicators
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Pushbutton Switches
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Selector Switches
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Key-type Selector Switches
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Key-Type Selector Switches
A22N

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Pushbutton Switches
A30N

Selector Switches
A30N

Key-Type Selector Switches
A30N

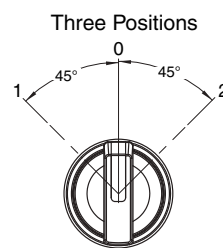
Subassemblies (Common)

Accessories and Tools

Safety Precautions




No. of outputs	Code	Contact configuration	Unit position	Contacts	Position		
					1	0	2
2	202	DPST-NC	1	NC		ON	ON
			2	---	---	---	---
			3	NC	ON	ON	
2	120	SPST-NO/ SPST-NC	1	NO	ON		
			2	NC		ON	
			3	---	---	---	---
2	102	SPST-NO/ SPST-NC	1	NO	ON		
			2	---	---	---	---
			3	NC	ON	ON	
2	210	SPST-NO/ SPST-NC	1	NC		ON	ON
			2	NO	ON		ON
			3	---	---	---	---
2	201	SPST-NO/ SPST-NC	1	NC		ON	ON
			2	---	---	---	---
			3	NO			ON
2	012	SPST-NO/ SPST-NC	1	---	---	---	---
			2	NO	ON		ON
			3	NC	ON	ON	
2	021	SPST-NO/ SPST-NC	1	---	---	---	---
			2	NC		ON	
			3	NO			ON
3	111	3PST-NO	1	NO	ON		ON
			2	NO	ON		ON
			3	NO			ON
3	222	3PST-NC	1	NC		ON	ON
			2	NC		ON	
			3	NC	ON	ON	
3	122	SPST-NO/ DPST-NC	1	NO	ON		
			2	NC		ON	
			3	NC	ON	ON	
3	212	SPST-NO/ DPST-NC	1	NC		ON	ON
			2	NO	ON		ON
			3	NC	ON	ON	
3	221	SPST-NO/ DPST-NC	1	NC		ON	ON
			2	NC		ON	
			3	NO			ON
3	211	DPST-NO/ SPST-NC	1	NC		ON	ON
			2	NO	ON		ON
			3	NO			ON
3	121	DPST-NO/ SPST-NC	1	NO	ON		
			2	NC		ON	
			3	NO			ON
3	112	DPST-NO/ SPST-NC	1	NO	ON		
			2	NO	ON		ON
			3	NC	ON	ON	

Operation Angle






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		
Plastic bezels 	2B	1	A22NS-2B(3)-(4)(4)A-G(7)(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		
			A22NS-2B(3)-(4)(4)A-P(7)(7)(7)-NN					
		2	A22NS-2B(3)-(4)(4)A-G(7)(7)(7)-NN			102 101 202		
			A22NS-2B(3)-(4)(4)A-P(7)(7)(7)-NN					
		3	A22NS-2B(3)-(4)(4)A-G(7)(7)(7)-NN			111 222 122 112		
			A22NS-2B(3)-(4)(4)A-P(7)(7)(7)-NN					
Brushed metal bezels 	2M	1	A22NS-2M(3)-(4)(4)A-G(7)(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
			A22NS-2M(3)-(4)(4)A-P(7)(7)(7)-NN					
		2	A22NS-2M(3)-(4)(4)A-G(7)(7)(7)-NN					102 101 202
			A22NS-2M(3)-(4)(4)A-P(7)(7)(7)-NN					
		3	A22NS-2M(3)-(4)(4)A-G(7)(7)(7)-NN					111 222 122 112
			A22NS-2M(3)-(4)(4)A-P(7)(7)(7)-NN					
Metal bezels 	2R	1	A22NS-2R(3)-(4)(4)A-G(7)(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
			A22NS-2R(3)-(4)(4)A-P(7)(7)(7)-NN					
		2	A22NS-2R(3)-(4)(4)A-G(7)(7)(7)-NN					102 101 202
			A22NS-2R(3)-(4)(4)A-P(7)(7)(7)-NN					
		3	A22NS-2R(3)-(4)(4)A-G(7)(7)(7)-NN					111 222 122 112
			A22NS-2R(3)-(4)(4)A-P(7)(7)(7)-NN					

INDUSTRIAL AUTOMATION

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
Plastic bezels 	3B	2	A22NS-3B(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			
		A22NS-3B(3)-(4)(4)A-P(7)(7)-NN	101			
			220			
	3	A22NS-3B(3)-(4)(4)A-G(7)(7)-NN	022			
			202			
A22NS-3B(3)-(4)(4)A-P(7)(7)-NN	120					
	102					
210						
201						
012						
021						
Brushed metal bezels 	3M	2	A22NS-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			
		A22NS-3M(3)-(4)(4)A-P(7)(7)-NN	101			
			220			
	3	A22NS-3M(3)-(4)(4)A-G(7)(7)-NN	022			
			202			
A22NS-3M(3)-(4)(4)A-P(7)(7)-NN	120					
	102					
210						
201						
012						
021						
Metal bezels 	3R	2	A22NS-3R(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			
		A22NS-3R(3)-(4)(4)A-P(7)(7)-NN	101			
			220			
	3	A22NS-3R(3)-(4)(4)A-G(7)(7)-NN	022			
			202			
A22NS-3R(3)-(4)(4)A-P(7)(7)-NN	120					
	102					
210						
201						
012						
021						
Subassemblies (Common)		3	A22NS-3R(3)-(4)(4)A-G(7)(7)-NN			111
			222			
		A22NS-3R(3)-(4)(4)A-P(7)(7)-NN	122			
			212			
221						
211						
121						
112						

Pushbutton Switches A22N
 Selector Switches A22N
 Key-type Selector Switches A22N
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 Key-type Selector Switches A30N
 Subassemblies (Common)
 Accessories and Tools
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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
Plastic bezels 	2B	1	A22NW-2B(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
			2					
		1				A22NW-2M(3)-(4)(4)A-G(7)(7)-(8)(9)		
			2			A22NW-2M(3)-(4)(4)A-P(7)(7)-(8)(9)		
Brushed metal bezels 	2M	1				A22NW-2M(3)-(4)(4)A-G(7)(7)-(8)(9)		
			2			A22NW-2M(3)-(4)(4)A-P(7)(7)-(8)(9)		
		1				A22NW-2R(3)-(4)(4)A-G(7)(7)-(8)(9)		
			2			A22NW-2R(3)-(4)(4)A-P(7)(7)-(8)(9)		
Metal bezels 	2R	1		A22NW-2R(3)-(4)(4)A-G(7)(7)-(8)(9)				
			2	A22NW-2R(3)-(4)(4)A-P(7)(7)-(8)(9)				
		1		A22NW-2R(3)-(4)(4)A-G(7)(7)-(8)(9)	100 002			
			2	A22NW-2R(3)-(4)(4)A-P(7)(7)-(8)(9)	102 101 202			

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
Plastic bezels 	3B	2	A22NW-3B(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
			A22NW-3B(3)-(4)(4)A-P(7)(7)-(8)(9)					
Brushed metal bezels 	3M	2	A22NW-3M(3)-(4)(4)A-G(7)(7)-(8)(9)					
			A22NW-3M(3)-(4)(4)A-P(7)(7)-(8)(9)					
Metal bezels 	3R	2	A22NW-3R(3)-(4)(4)A-G(7)(7)-(8)(9)					
			A22NW-3R(3)-(4)(4)A-P(7)(7)-(8)(9)					
1	2	A22NW-3R(3)-(4)(4)A-G(7)(7)-(8)(9)	101 202 102 201					
		A22NW-3R(3)-(4)(4)A-P(7)(7)-(8)(9)						

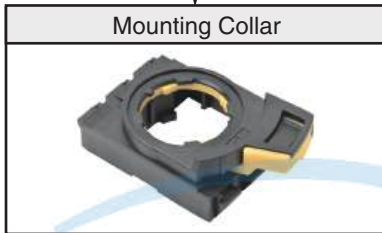
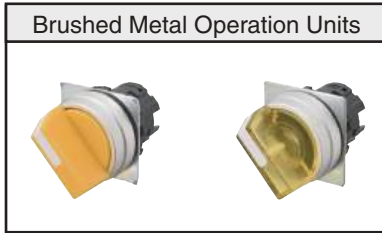
Note: Normally, the Operation Unit and LED Lamp with the same color are combined. However, opaque white is available by combining a white Operation Unit and yellow LED. A22N□-□□□-TWA-□□□□-Y□

■ Subassemblies: Refer to pages 28 to 30 and 82. (You can order Operation Units, LED Lamps, Mounting Collars, and Contact Blocks individually.)

■ Specifications: Refer to page 13 ■ Characteristics: Refer to page 32.
 ■ Dimensions: Refer to page 33.
 ■ Accessories and tools: Refer to pages 84 to 85.

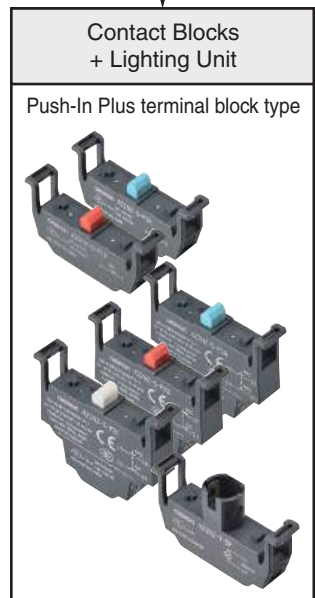
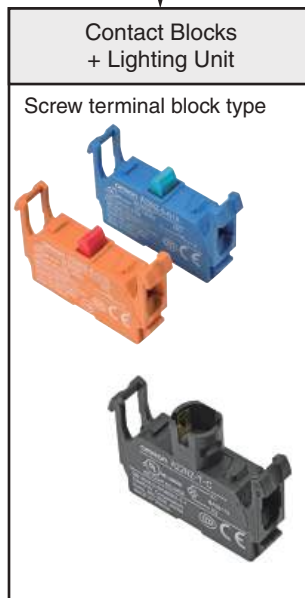
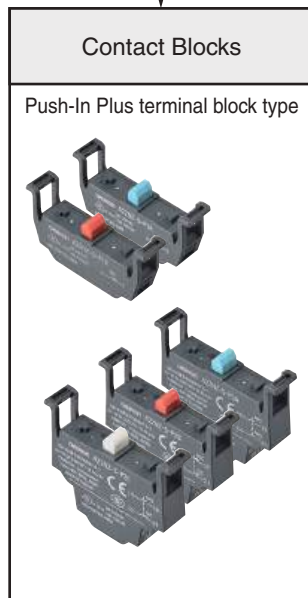
Ordering Information

Subassemblies ----- You can order Operation Units, LED Lamps (lighted models only), Mounting Collars, Contact Blocks, and Lighting Units (lighted models only) separately. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.



Non-lighted models

Lighted models



- Model numbers of sets: Refer to pages 25 to 27.
- Specifications: Refer to page 13.
- Characteristics: Refer to page 32.

- Dimensions: Refer to page 33.
- Subassemblies (Common): Refer to page 82.
- Accessories and tools: Refer to pages 84 to 85.

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)





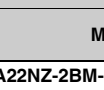
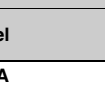
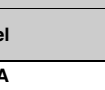
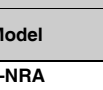
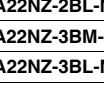
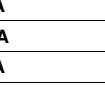
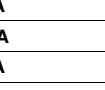
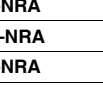
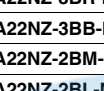
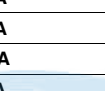
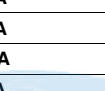
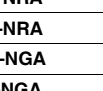
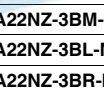
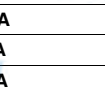
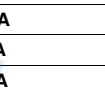
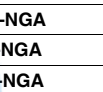




Accessories and Tools

Safety Precautions

Ordering Information

Subassemblies - - - - You can order Operation Units, Mounting Collars, and Contact Blocks individually. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.

Operation Unit Non-lighted Switches

No. of positions	Reset method	Operation Unit color	Bezel material and shape		Model	Model	Model
			Plastic	Brushed metal			
2	Manual	Opaque red			A22NZ-2BM-NRA	A22NZ-2MM-NRA	A22NZ-2RM-NRA
	Automatic reset on left				A22NZ-2BL-NRA	A22NZ-2ML-NRA	A22NZ-2RL-NRA
3	Manual		A22NZ-3BM-NRA	A22NZ-3MM-NRA	A22NZ-3RM-NRA		
	Automatic reset on left		A22NZ-3BL-NRA	A22NZ-3ML-NRA	A22NZ-3RL-NRA		
	Automatic reset on right		A22NZ-3BR-NRA	A22NZ-3MR-NRA	A22NZ-3RR-NRA		
	Automatic reset on left and right		A22NZ-3BB-NRA	A22NZ-3MB-NRA	A22NZ-3RB-NRA		
2	Manual	Opaque green			A22NZ-2BM-NGA	A22NZ-2MM-NGA	A22NZ-2RM-NGA
	Automatic reset on left				A22NZ-2BL-NGA	A22NZ-2ML-NGA	A22NZ-2RL-NGA
3	Manual		A22NZ-3BM-NGA	A22NZ-3MM-NGA	A22NZ-3RM-NGA		
	Automatic reset on left		A22NZ-3BL-NGA	A22NZ-3ML-NGA	A22NZ-3RL-NGA		
	Automatic reset on right		A22NZ-3BR-NGA	A22NZ-3MR-NGA	A22NZ-3RR-NGA		
	Automatic reset on left and right		A22NZ-3BB-NGA	A22NZ-3MB-NGA	A22NZ-3RB-NGA		
2	Manual	Opaque yellow			A22NZ-2BM-NYA	A22NZ-2MM-NYA	A22NZ-2RM-NYA
	Automatic reset on left				A22NZ-2BL-NYA	A22NZ-2ML-NYA	A22NZ-2RL-NYA
3	Manual		A22NZ-3BM-NYA	A22NZ-3MM-NYA	A22NZ-3RM-NYA		
	Automatic reset on left		A22NZ-3BL-NYA	A22NZ-3ML-NYA	A22NZ-3RL-NYA		
	Automatic reset on right		A22NZ-3BR-NYA	A22NZ-3MR-NYA	A22NZ-3RR-NYA		
	Automatic reset on left and right		A22NZ-3BB-NYA	A22NZ-3MB-NYA	A22NZ-3RB-NYA		
2	Manual	Opaque white			A22NZ-2BM-NWA	A22NZ-2MM-NWA	A22NZ-2RM-NWA
	Automatic reset on left				A22NZ-2BL-NWA	A22NZ-2ML-NWA	A22NZ-2RL-NWA
3	Manual		A22NZ-3BM-NWA	A22NZ-3MM-NWA	A22NZ-3RM-NWA		
	Automatic reset on left		A22NZ-3BL-NWA	A22NZ-3ML-NWA	A22NZ-3RL-NWA		
	Automatic reset on right		A22NZ-3BR-NWA	A22NZ-3MR-NWA	A22NZ-3RR-NWA		
	Automatic reset on left and right		A22NZ-3BB-NWA	A22NZ-3MB-NWA	A22NZ-3RB-NWA		
2	Manual	Opaque blue			A22NZ-2BM-NAA	A22NZ-2MM-NAA	A22NZ-2RM-NAA
	Automatic reset on left				A22NZ-2BL-NAA	A22NZ-2ML-NAA	A22NZ-2RL-NAA
3	Manual		A22NZ-3BM-NAA	A22NZ-3MM-NAA	A22NZ-3RM-NAA		
	Automatic reset on left		A22NZ-3BL-NAA	A22NZ-3ML-NAA	A22NZ-3RL-NAA		
	Automatic reset on right		A22NZ-3BR-NAA	A22NZ-3MR-NAA	A22NZ-3RR-NAA		
	Automatic reset on left and right		A22NZ-3BB-NAA	A22NZ-3MB-NAA	A22NZ-3RB-NAA		
2	Manual	Opaque black			A22NZ-2BM-NBA	A22NZ-2MM-NBA	A22NZ-2RM-NBA
	Automatic reset on left				A22NZ-2BL-NBA	A22NZ-2ML-NBA	A22NZ-2RL-NBA
3	Manual		A22NZ-3BM-NBA	A22NZ-3MM-NBA	A22NZ-3RM-NBA		
	Automatic reset on left		A22NZ-3BL-NBA	A22NZ-3ML-NBA	A22NZ-3RL-NBA		
	Automatic reset on right		A22NZ-3BR-NBA	A22NZ-3MR-NBA	A22NZ-3RR-NBA		
	Automatic reset on left and right		A22NZ-3BB-NBA	A22NZ-3MB-NBA	A22NZ-3RB-NBA		




- Model numbers of sets: Refer to pages 25 to 27.
- Specifications: Refer to page 13.
- Characteristics: Refer to page 32.

- Dimensions: Refer to page 33.
- Subassemblies (Common): Refer to page 82.
- Accessories and tools: Refer to pages 84 to 85.

Ordering Information

Subassemblies ----- You can order Operation Units, LED Lamps, Mounting Collars, Contact Blocks, and Lighting Units separately. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.

Lighted Switches

Bezel material and shape			Plastic	Brushed metal	Metal	
						
No. of positions	Reset method	Operation Unit color	Model	Model	Model	
2	Manual	Transparent red	A22NZ-2BM-TRA	A22NZ-2MM-TRA	A22NZ-2RM-TRA	
	Automatic reset on left		A22NZ-2BL-TRA	A22NZ-2ML-TRA	A22NZ-2RL-TRA	
3	Manual		A22NZ-3BM-TRA	A22NZ-3MM-TRA	A22NZ-3RM-TRA	
	Automatic reset on left		A22NZ-3BL-TRA	A22NZ-3ML-TRA	A22NZ-3RL-TRA	
	Automatic reset on right		A22NZ-3BR-TRA	A22NZ-3MR-TRA	A22NZ-3RR-TRA	
	Automatic reset on left and right		A22NZ-3BB-TRA	A22NZ-3MB-TRA	A22NZ-3RB-TRA	
2	Manual		Transparent green	A22NZ-2BM-TGA	A22NZ-2MM-TGA	A22NZ-2RM-TGA
	Automatic reset on left			A22NZ-2BL-TGA	A22NZ-2ML-TGA	A22NZ-2RL-TGA
3	Manual			A22NZ-3BM-TGA	A22NZ-3MM-TGA	A22NZ-3RM-TGA
	Automatic reset on left			A22NZ-3BL-TGA	A22NZ-3ML-TGA	A22NZ-3RL-TGA
	Automatic reset on right			A22NZ-3BR-TGA	A22NZ-3MR-TGA	A22NZ-3RR-TGA
	Automatic reset on left and right			A22NZ-3BB-TGA	A22NZ-3MB-TGA	A22NZ-3RB-TGA
2	Manual	Transparent yellow		A22NZ-2BM-TYA	A22NZ-2MM-TYA	A22NZ-2RM-TYA
	Automatic reset on left			A22NZ-2BL-TYA	A22NZ-2ML-TYA	A22NZ-2RL-TYA
3	Manual			A22NZ-3BM-TYA	A22NZ-3MM-TYA	A22NZ-3RM-TYA
	Automatic reset on left			A22NZ-3BL-TYA	A22NZ-3ML-TYA	A22NZ-3RL-TYA
	Automatic reset on right			A22NZ-3BR-TYA	A22NZ-3MR-TYA	A22NZ-3RR-TYA
	Automatic reset on left and right			A22NZ-3BB-TYA	A22NZ-3MB-TYA	A22NZ-3RB-TYA
2	Manual		Transparent white	A22NZ-2BM-TWA	A22NZ-2MM-TWA	A22NZ-2RM-TWA
	Automatic reset on left			A22NZ-2BL-TWA	A22NZ-2ML-TWA	A22NZ-2RL-TWA
3	Manual			A22NZ-3BM-TWA	A22NZ-3MM-TWA	A22NZ-3RM-TWA
	Automatic reset on left			A22NZ-3BL-TWA	A22NZ-3ML-TWA	A22NZ-3RL-TWA
	Automatic reset on right			A22NZ-3BR-TWA	A22NZ-3MR-TWA	A22NZ-3RR-TWA
	Automatic reset on left and right			A22NZ-3BB-TWA	A22NZ-3MB-TWA	A22NZ-3RB-TWA
2	Manual	Transparent blue		A22NZ-2BM-TAA	A22NZ-2MM-TAA	A22NZ-2RM-TAA
	Automatic reset on left			A22NZ-2BL-TAA	A22NZ-2ML-TAA	A22NZ-2RL-TAA
3	Manual			A22NZ-3BM-TAA	A22NZ-3MM-TAA	A22NZ-3RM-TAA
	Automatic reset on left			A22NZ-3BL-TAA	A22NZ-3ML-TAA	A22NZ-3RL-TAA
	Automatic reset on right			A22NZ-3BR-TAA	A22NZ-3MR-TAA	A22NZ-3RR-TAA
	Automatic reset on left and right			A22NZ-3BB-TAA	A22NZ-3MB-TAA	A22NZ-3RB-TAA
2	Manual		Transparent orange	A22NZ-2BM-TOA	A22NZ-2MM-TOA	A22NZ-2RM-TOA
	Automatic reset on left			A22NZ-2BL-TOA	A22NZ-2ML-TOA	A22NZ-2RL-TOA
3	Manual			A22NZ-3BM-TOA	A22NZ-3MM-TOA	A22NZ-3RM-TOA
	Automatic reset on left			A22NZ-3BL-TOA	A22NZ-3ML-TOA	A22NZ-3RL-TOA
	Automatic reset on right			A22NZ-3BR-TOA	A22NZ-3MR-TOA	A22NZ-3RR-TOA
	Automatic reset on left and right			A22NZ-3BB-TOA	A22NZ-3MB-TOA	A22NZ-3RB-TOA

- Model numbers of sets: Refer to pages 25 to 27.
- Specifications: Refer to page 13.
- Characteristics: Refer to page 32.

- Dimensions: Refer to page 33.
- Subassemblies (Common): Refer to page 82.
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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 ±2°C

(2) Ambient humidity: 65% ±5% 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 ±10%	Approx. 11 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
12 VAC/DC	12 VAC/DC ±10%	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
24 VAC/DC	24 VAC/DC ±10%	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
100 VAC	100 VAC ±10%	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
110 VAC	110 VAC ±10%	
120 VAC	100 to 130 VAC	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
200 VAC	200 VAC ±10%	
220 VAC	220 VAC ±10%	
230 VAC	230 VAC ±10%	
240 VAC	220 to 250 VAC	

Specifications

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, NEMA 4X, NEMA 13	
Electric shock protection class		Class II	
PTI (tracking characteristic)		175	
Degree of contamination (application environment)		3 (EN 60947-5-1)	
Weight		Approx. 50 g (for 1NC/1NO)	Approx. 60 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

	Selector Switches			
	2 positions		3 positions	
	Lighted	Non-lighted	Lighted	Non-lighted
Linking example				

* 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.

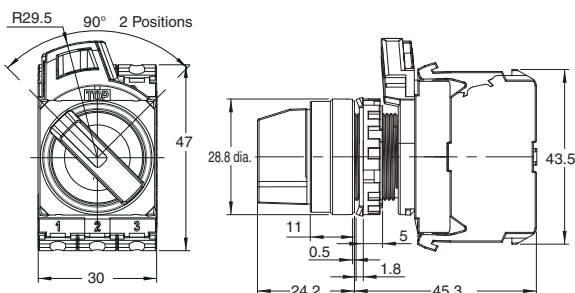
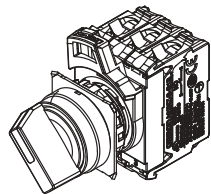
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(Unit: mm)

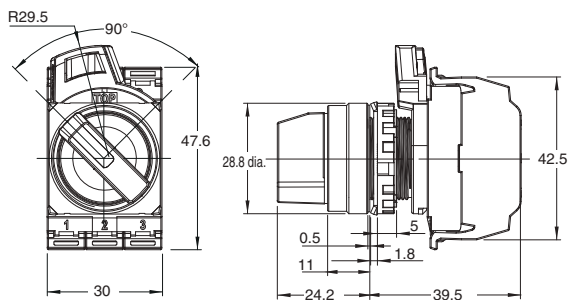
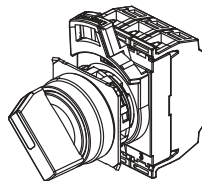
Lighted and Non-lighted Selection Switches

Two-position Switches with Plastic Bezels

A22N□-2B□-□□A-G

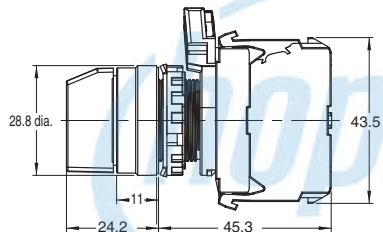
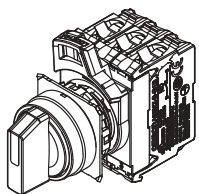


A22N□-2B□-□□A-P

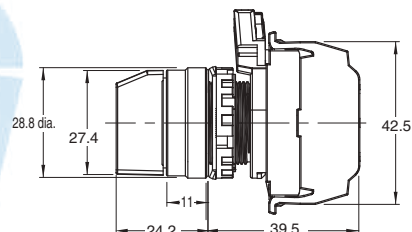
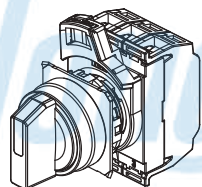


Three-position Switches with Plastic Bezels

A22N□-3B□-□□A-G

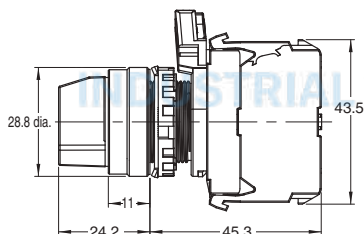
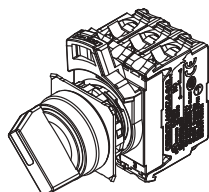


A22N□-3B□-□□A-P

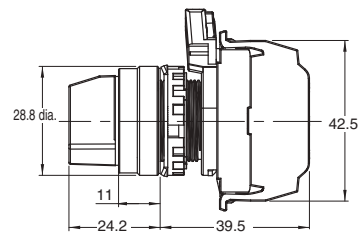
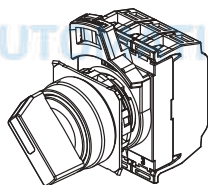


Two-position Switches with Brushed Metal Bezels

A22N□-2M□-□□A-G

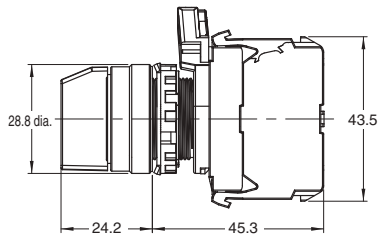
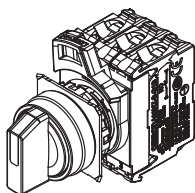


A22N□-2M□-□□A-P

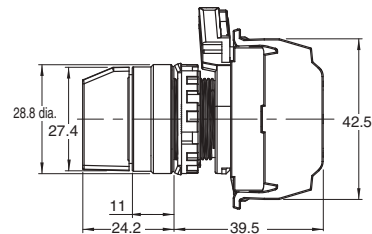
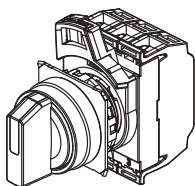


Three-position Switches with Brushed Metal Bezels

A22N□-3M□-□□A-G



A22N□-3M□-□□A-P



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)

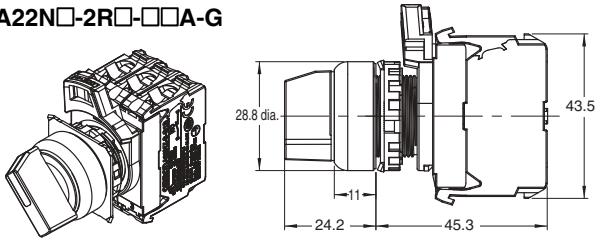
Accessories
and Tools

Safety
Precautions

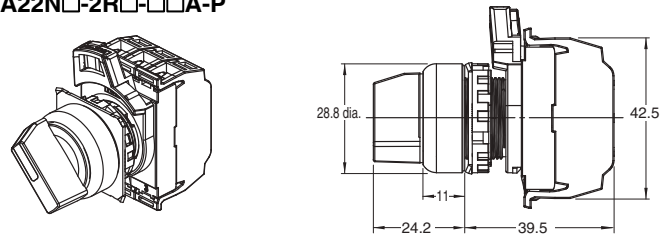
Pushbutton Switches
A22N
Selector Switches
A22N
Key-Type Selector Switches
A22N
Indicators
M22N
Pushbutton Switches
A30N
Selector Switches
A30N
Key-Type Selector Switches
A30N
Subassemblies (Common)
Accessories and Tools
Safety Precautions

Two-position Switches with Metal Bezels

A22N□-2R□-□□A-G

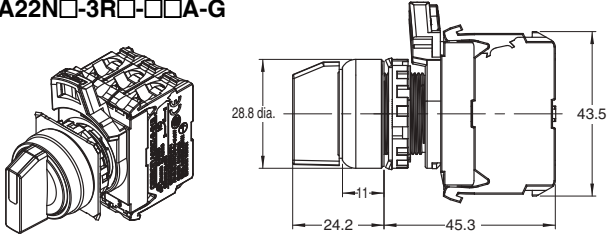


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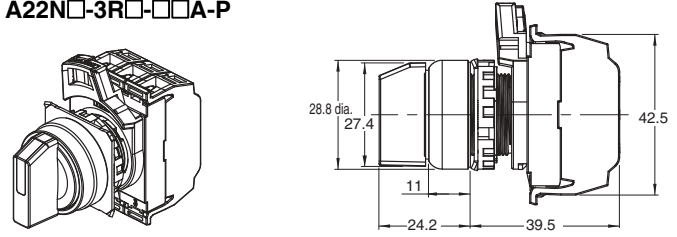


Three-position Switches with Metal Bezels

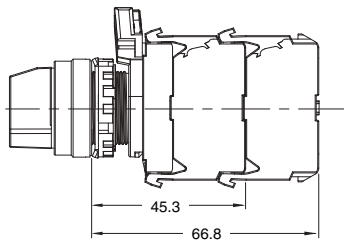
A22N□-3R□-□□A-G



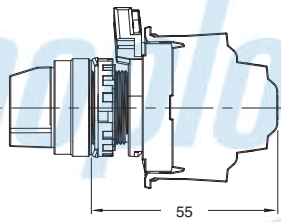
A22N□-3R□-□□A-P



Depth with Linked Units (Screw terminal block type)

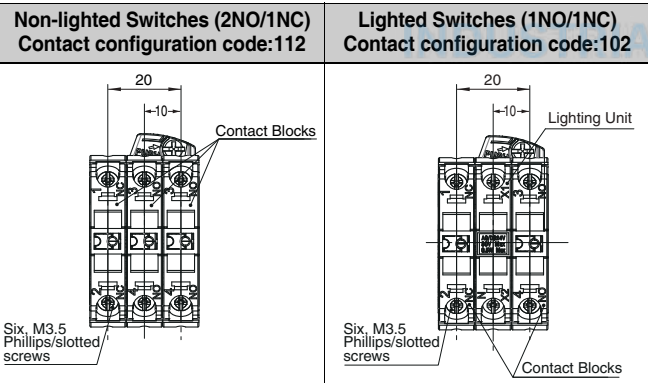


Depth when a double-contact unit is mounted (Push-In Plus terminal block type)

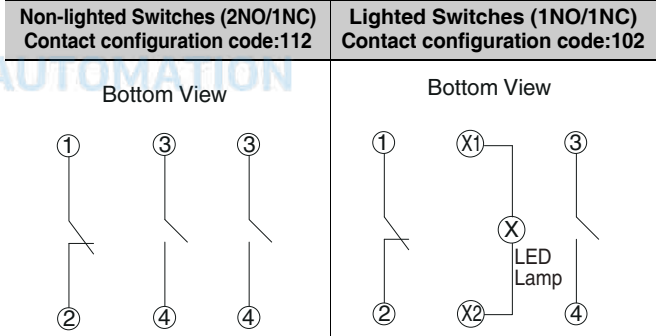


Terminal Arrangement

BOTTOM VIEW (Screw terminal block type)

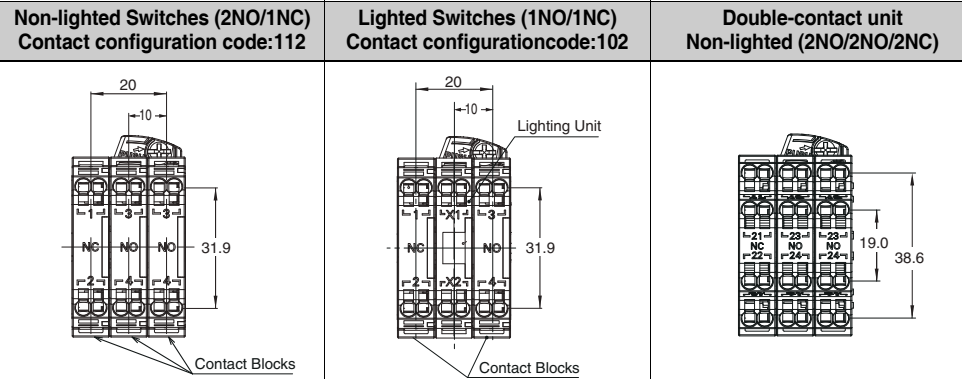


Terminal Connection Diagrams



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

BOTTOM VIEW (Push-In Plus terminal block type)



Key-type Selector Switches A22NK

22-mm dia. Key-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.



Easy to Use

- You can connect up to three Contact Blocks in one stage for multistage expansion.
- Screw terminal structure is compatible with round crimp terminals. (Screw terminal block type)
- The terminals can be secured even when a contact block is mounted. (Screw terminal block type)
- Contact Blocks can be attached in any direction for easy assembly.

Miniaturization


- No need for extra lateral space because of the modified wiring direction. (Push-In Plus terminal block type)
- Compact design.

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

- Meet global safety standards.
- Can be installed in two types of panel hole dimensions: 22.3 and 25.5 dia.
- The buttons and bezels come in a wide variety of colors, shapes, and materials.
- Standard-feature degree of protection: IP66 and NEMA 13.

 Refer to *Safety Precautions for All Pushbutton Switches/ Indicators and Safety Precautions* on page 89.

List of Models

Screw Terminal Blocks/Push-In Plus Terminal Blocks	
Plastic bezels	
A22NK-□B	

Two Positions



Three Positions



Screw Terminal Blocks/Push-In Plus Terminal Blocks	
Brushed metal bezels	
A22NK-□M	

Two Positions



Three Positions



Screw Terminal Blocks/Push-In Plus Terminal Blocks	
Metal bezels	
A22NK-□R	

Two Positions



Three Positions



Model Number Structure

Model Number Legend

----- Shipped as a set that includes the Operation Unit, Mounting Collar, and Contact Block.
For information on combinations, refer to *Ordering Information* on pages 39 to 40.

Model Numbers for Sets

A 2 2 N (1) K - (2) 2B (3) M - (4) 01 (5) A (6) A - (7) G (8) 100

(1) Type

Code	Type
K	Key-type Selector Switch

(4) Key Number

Code	No.
01	No.1

(7) 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
2B	2	Plastic
2M	2	Brushed metal
2R	2	Metal
3B	3	Plastic
3M	3	Brushed metal
3R	3	Metal

(5) Key Release Position *

Code	Release position	Two positions	Three positions
A	All positions		
B	Left		
C	Right		
D	Center	---	
G	Left and right	---	

(8) Contact Configuration

Code	Contact Blocks		Unit position			Two positions	Three positions
	NO	NC	1	2	3		
100	1	0	NO	---	---	Yes	---
002	0	1	---	---	NC	Yes	---
101	2	0	NO	---	NO	Yes	Yes
102	1	1	NO	---	NC	Yes	Yes
201	1	1	NC	---	NO	---	Yes
202	0	2	NC	---	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-positions manual	
		Three-positions manual	
L	Automatic reset on left	Two-positions automatic	
		Three-positions left automatic	
R	Automatic reset on right	Three-positions right automatic	
		Three-positions left or right automatic	

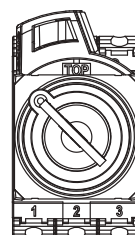
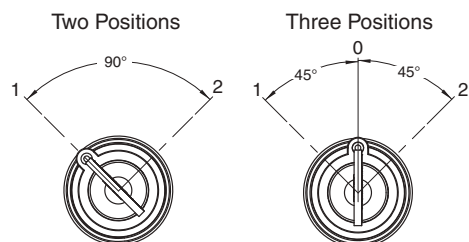
○: Release position ●: Locked position
* The key can only be removed when in the free position for automatic reset models.

(6) Degree of Protection

Code	Protection
A	Conforming to IP66, NEMA13

Note: 1. NO (blue): Normally open, NC (orange): Normally closed.
2. Refer to the following figure for Unit positions.

Operation Angle



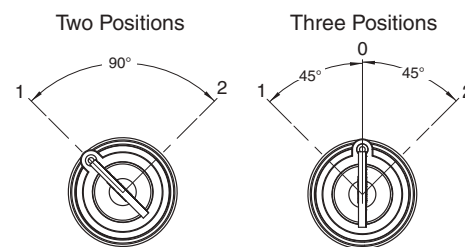
- Specifications: Refer to page 13.
- Dimensions: Refer to page 45.
- Characteristics: Refer to page 44.
- Precautions for correct use: Refer to pages 89 to 100.

Structure

Contact Configuration Table
Two Positions

No. of outputs	Code	Contact configuration	Unit position	Contacts	Position	
					1	2
1	100	SPST-NO	1	NO		ON
			2	---	---	---
			3	---	---	---
1	002	SPST-NC	1	---	---	---
			2	---	---	---
			3	NC	ON	
2	102	SPST-NO/ SPST-NC	1	NO		ON
			2	---	---	---
			3	NC	ON	
2	101	DPST-NO	1	NO		ON
			2	---	---	---
			3	NO		ON
2	202	DPST-NC	1	NC	ON	
			2	---	---	---
			3	NC	ON	
3	111	3PST-NO	1	NO		ON
			2	NO		ON
			3	NO		ON
3	222	3PST-NC	1	NC	ON	
			2	NC	ON	
			3	NC	ON	
3	122	SPST-NO/ DPST-NC	1	NO		ON
			2	NC	ON	
			3	NC	ON	
3	112	DPST-NO/ SPST-NC	1	NO		ON
			2	NO		ON
			3	NC	ON	

Operation Angle



Three Positions

No. of outputs	Code	Contact configuration	Unit position	Contacts	Position		
					1	0	2
2	110	DPST-NO	1	NO	ON		
			2	NO	ON		ON
			3	---	---	---	---
2	011	DPST-NO	1	---	---	---	---
			2	NO	ON		ON
			3	NO			ON
2	101	DPST-NO	1	NO	ON		
			2	---	---	---	---
			3	NO			ON
2	220	DPST-NC	1	NC		ON	ON
			2	NC		ON	
			3	---	---	---	---
2	022	DPST-NC	1	---	---	---	---
			2	NC		ON	
			3	NC	ON	ON	

INDUSTRIAL AUTOMATION

Pushbutton Switches
A22N

Selector Switches
A22N

Key-type Selector Switches
A22N

Indicators
M22N

Pushbutton Switches
A30N

Selector Switches
A30N

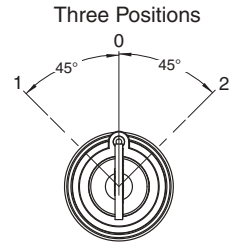
Key-type Selector Switches
A30N

Subassemblies
(Common)

Accessories
and Tools

Safety
Precautions

Operation Angle



No. of outputs	Code	Contact configuration	Unit position	Contacts	Position		
					1	0	2
2	202	DPST-NC	1	NC		ON	ON
			2	---	---	---	---
			3	NC	ON	ON	
2	120	SPST-NO/ SPST-NC	1	NO	ON		
			2	NC		ON	
			3	---	---	---	---
2	102	SPST-NO/ SPST-NC	1	NO	ON		
			2	---	---	---	---
			3	NC	ON	ON	
2	210	SPST-NO/ SPST-NC	1	NC		ON	ON
			2	NO	ON		ON
			3	---	---	---	---
2	201	SPST-NO/ SPST-NC	1	NC		ON	ON
			2	---	---	---	---
			3	NO			ON
2	012	SPST-NO/ SPST-NC	1	---	---	---	---
			2	NO	ON		ON
			3	NC	ON	ON	
2	021	SPST-NO/ SPST-NC	1	---	---	---	---
			2	NC		ON	
			3	NO			ON
3	111	3PST-NO	1	NO	ON		
			2	NO	ON		ON
			3	NO			ON
3	222	3PST-NC	1	NC		ON	ON
			2	NC		ON	
			3	NC	ON	ON	
3	122	SPST-NO/ DPST-NC	1	NO	ON		
			2	NC		ON	
			3	NC	ON	ON	
3	212	SPST-NO/ DPST-NC	1	NC		ON	ON
			2	NO	ON		ON
			3	NC	ON	ON	
3	221	SPST-NO/ DPST-NC	1	NC		ON	ON
			2	NC		ON	
			3	NO			ON
3	211	DPST-NO/ SPST-NC	1	NC		ON	ON
			2	NO	ON		ON
			3	NO			ON
3	121	DPST-NO/ SPST-NC	1	NO	ON		
			2	NC		ON	
			3	NO			ON
3	112	DPST-NO/ SPST-NC	1	NO	ON		
			2	NO	ON		ON
			3	NC	ON	ON	




■ Specifications: Refer to page 13.
■ Dimensions: Refer to page 45.

■ Characteristics: Refer to page 44.
■ Precautions for correct use: Refer to pages 89 to 100.

Ordering Information

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

Two-position, Key-type Selector Switches

Appearance	Bezel material	No. of outputs	Model	(3) Reset method	(5) Key release positions	(8)(8)(8) Contact configuration	
Plastic bezels 	2B	1	A22NK-2B(3)-01(5)A-G(8)(8)	M: Manual L: Automatic reset on left	A: All positions B: Left C: Right	100 002	
			A22NK-2B(3)-01(5)A-P(8)(8)			102 101 202	
		2	A22NK-2B(3)-01(5)A-G(8)(8)			111 222 122 112	
			A22NK-2B(3)-01(5)A-P(8)(8)				
		3	A22NK-2B(3)-01(5)A-G(8)(8)				
			A22NK-2B(3)-01(5)A-P(8)(8)				
Brushed metal bezels 	2M	1	A22NK-2M(3)-01(5)A-G(8)(8)				100 002
			A22NK-2M(3)-01(5)A-P(8)(8)			102 101 202	
		2	A22NK-2M(3)-01(5)A-G(8)(8)			111 222 122 112	
			A22NK-2M(3)-01(5)A-P(8)(8)				
		3	A22NK-2M(3)-01(5)A-G(8)(8)				
			A22NK-2M(3)-01(5)A-P(8)(8)				
Metal bezels 	2R	1	A22NK-2R(3)-01(5)A-G(8)(8)		100 002		
			A22NK-2R(3)-01(5)A-P(8)(8)	102 101 202			
		2	A22NK-2R(3)-01(5)A-G(8)(8)	111 222 122 112			
			A22NK-2R(3)-01(5)A-P(8)(8)				
		3	A22NK-2R(3)-01(5)A-G(8)(8)				
			A22NK-2R(3)-01(5)A-P(8)(8)				

INDUSTRIAL AUTOMATION

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

Three-position, Key-type Selector Switches

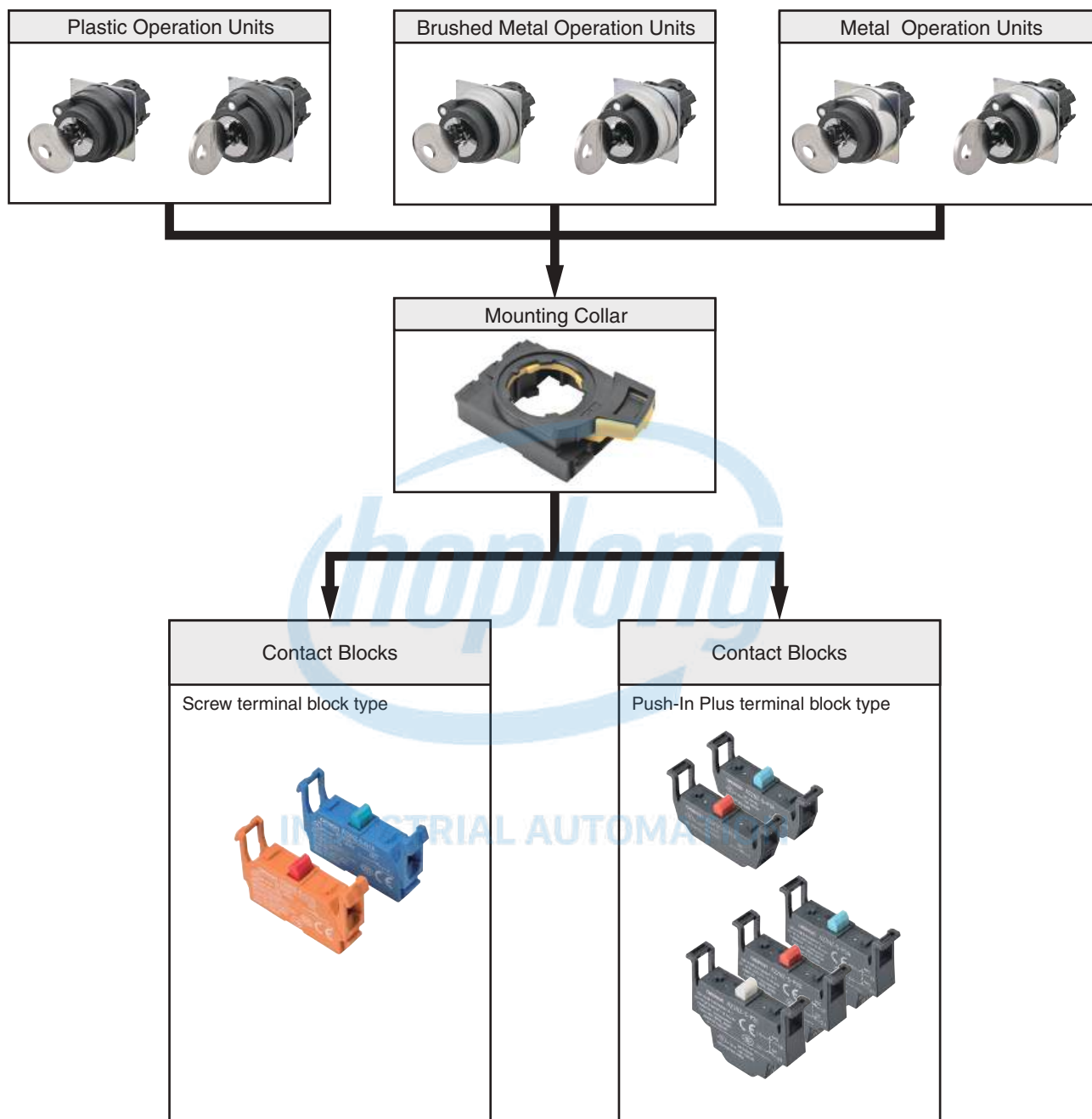
Appearance	Bezel material	No. of outputs	Model	(3) Reset method	(5) Key release positions	(8)(8)(8) Contact configuration
Plastic bezels 	3B	2	A22NK-3B(3)-01(5)A-G(8)(8)(8)	M: Manual L: Automatic reset on left R: Automatic reset on right B: Automatic reset on left and right	A: All positions B: Left C: Right D: Center G: Left and right	110
			011			
		3	101			
			220			
			022			
			202			
Brushed metal bezels 	3M	2	A22NK-3M(3)-01(5)A-G(8)(8)(8)	M: Manual L: Automatic reset on left R: Automatic reset on right B: Automatic reset on left and right	A: All positions B: Left C: Right D: Center G: Left and right	120
			102			
		3	210			
			201			
			012			
			021			
Metal bezels 	3R	2	A22NK-3R(3)-01(5)A-G(8)(8)(8)	M: Manual L: Automatic reset on left R: Automatic reset on right B: Automatic reset on left and right	A: All positions B: Left C: Right D: Center G: Left and right	111
			222			
		3	122			
			212			
			221			
			211			
3	121					
	212					
	221					
	211					

■ Subassemblies: Refer to pages 41 to 42 and 82.
 (You can order Operation Units, Mounting Collars, and Contact Blocks individually.)

■ Specifications: Refer to page 13 ■ Characteristics: Refer to page 44.
 ■ Dimensions: Refer to page 45.
 ■ Accessories and tools: Refer to pages 84 to 85.

Ordering Information

Subassemblies - - - - You can order Operation Units, Mounting Collars, and Contact Blocks individually. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.



- Model numbers of sets: Refer to pages 39 to 40.
- Specifications: Refer to page 13.
- Characteristics: Refer to page 44.

- Dimensions: Refer to page 45.
- Subassemblies (Common): Refer to page 82.
- Accessories and tools: Refer to pages 84 to 85.

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

Ordering Information

Subassemblies - - - - You can order Operation Units, Mounting Collars, and Contact Blocks individually. Use them in combination for models that are not available as assembled Switches. They can also be used as inventory for maintenance parts.

Operation Units

No. of positions		Reset method		Plastic	Brushed metal	Metal	(1) Key release positions
		Model	Model	Model	Model	Model	
2	Manual	A22NZ-2BM-01(1)A	A22NZ-2MM-01(1)A	A22NZ-2RM-01(1)A	A: All positions B: Left C: Right		
	Automatic reset on left	A22NZ-2BL-01(1)A	A22NZ-2ML-01(1)A	A22NZ-2RL-01(1)A			
3	Manual	A22NZ-3BM-01(1)A	A22NZ-3MM-01(1)A	A22NZ-3RM-01(1)A	A: All positions B: Left C: Right D: Center G: Left and right		
	Automatic reset on left	A22NZ-3BL-01(1)A	A22NZ-3ML-01(1)A	A22NZ-3RL-01(1)A			
	Automatic reset on right	A22NZ-3BR-01(1)A	A22NZ-3MR-01(1)A	A22NZ-3RR-01(1)A			
	Automatic reset on left and right	A22NZ-3BB-01(1)A	A22NZ-3MB-01(1)A	A22NZ-3RB-01(1)A			



INDUSTRIAL AUTOMATION

■ Model numbers of sets: Refer to pages 39 to 40.
 ■ Specifications: Refer to page 13.
 ■ Characteristics: Refer to page 44.

■ Dimensions: Refer to page 45.
 ■ Subassemblies (Common): Refer to page 82.
 ■ Accessories and tools: Refer to pages 84 to 85.

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

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 ±2°C

(2) Ambient humidity: 65% ±5% RH

(3) Operating frequency: 30 operations/minute

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

INDUSTRIAL AUTOMATION

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

Specifications

Characteristics

Type		Key-type Selector Switches
Item	Mechanical	30 operations/minute max.
	Electrical	30 operations/minute max.
Insulation resistance		100 MΩ min. (at 500 VDC)
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)
	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
Ambient operating humidity		35% to 85% RH
Ambient storage temperature ^{*1}		-40 to 80°C
Degree of protection ^{*2}		Conforming to IP66, NEMA13
Electric shock protection class		Class II
PTI (tracking characteristic)		175
Degree of contamination (application environment)		3 (EN 60947-5-1)
Weight		Approx. 65 g (for 1NC/1NO)

*1. With no icing or condensation.

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

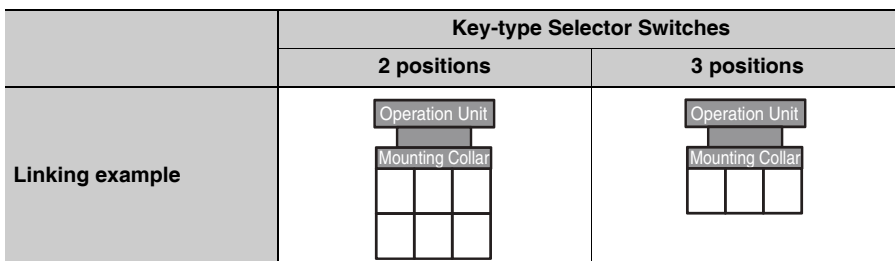
Operating Characteristics (for SPST-NO/SPST-NC)

Item	Type	Key-type Selector Switches	
		Manual reset	Automatic reset
Total travel force (torque) (maximum TTF)	0.6 N·m	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



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.

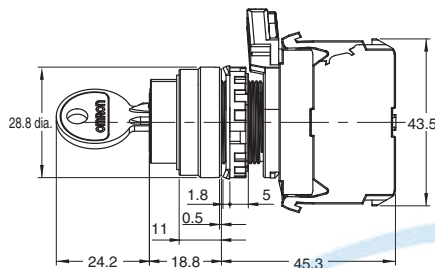
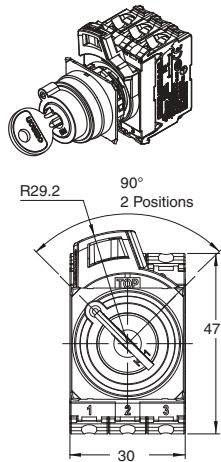
Dimensions

(Unit: mm)

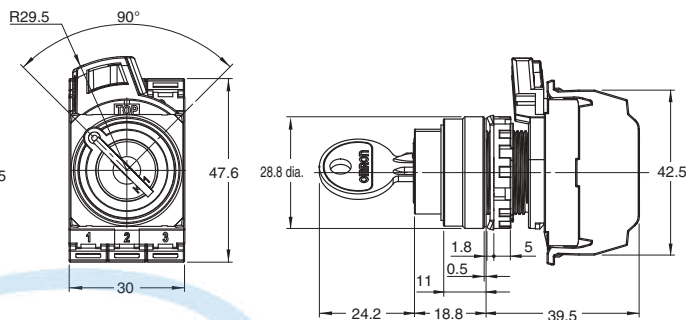
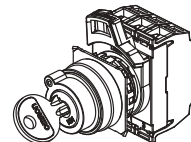
Lighted and Non-lighted Key-type Selection Switches

Two-position Switches with Plastic Bezels

A22NK-2B□-01□A-G

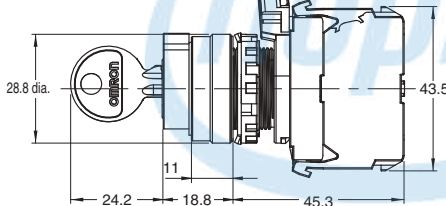
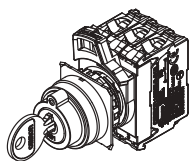


A22NK-2B□-01□A-P

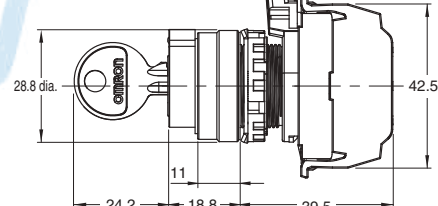
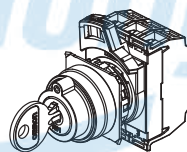


Three-position Switches with Plastic Bezels

A22NK-3B□-01□A-G

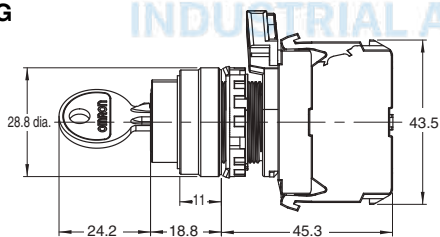
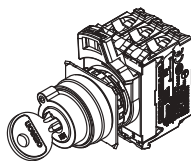


A22NK-3B□-01□A-P

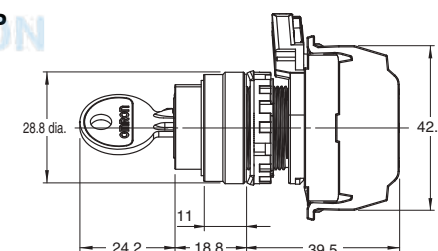
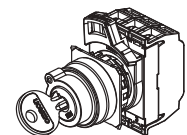


Two-position Switches with Brushed Metal Bezels

A22NK-2M□-01□A-G

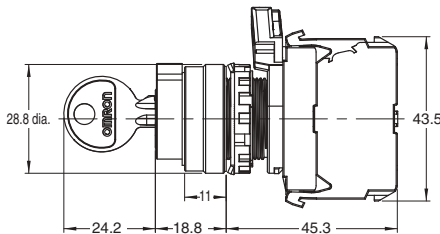
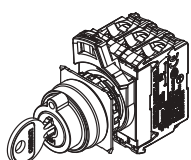


A22NK-2M□-01□A-P

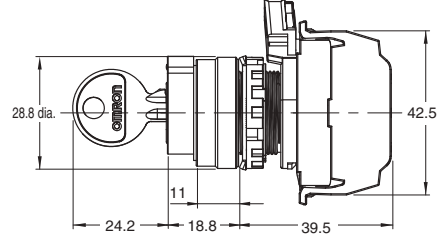
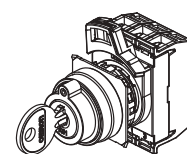


Three-position Switches with Brushed Metal Bezels

A22NK-3M□-01□A-G



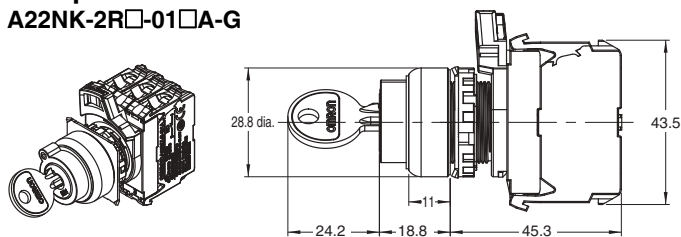
A22NK-3M□-01□A-P



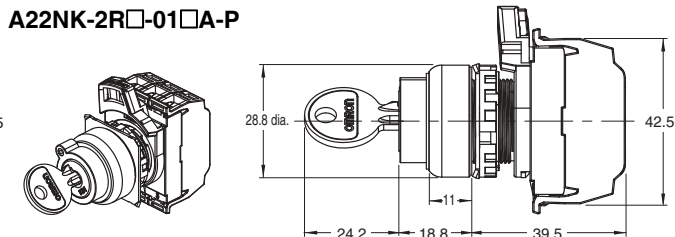
A22NK

Two-position Switches with Metal Bezels

A22NK-2R□-01□A-G

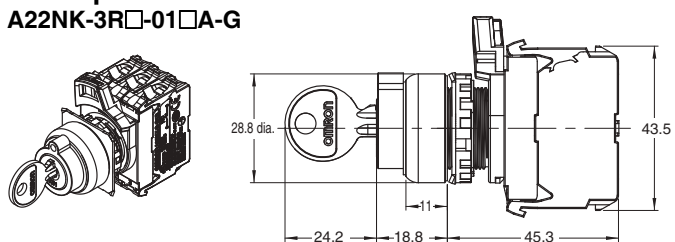


A22NK-2R□-01□A-P

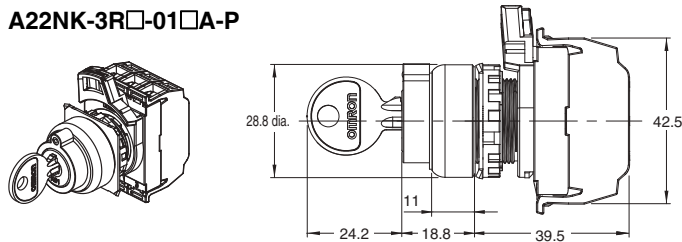


Three-position Switches with Metal Bezels

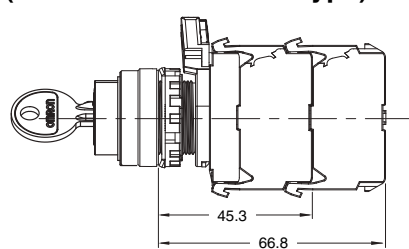
A22NK-3R□-01□A-G



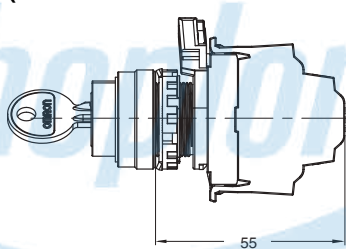
A22NK-3R□-01□A-P



Depth with Linked Units (Screw terminal block type)



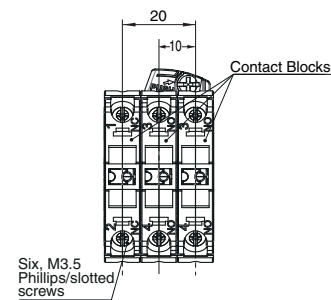
Depth when a double-contact unit is mounted (Push-In Plus terminal block type)



Terminal Arrangement

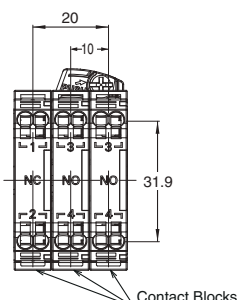
BOTTOM VIEW (Screw terminal block type)

2NO/1NC
Contact configuration code:112

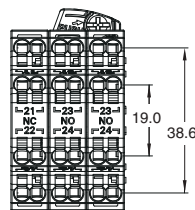


BOTTOM VIEW (Push-in Plus terminal block type)

2NO/1NC
Contact configuration code:112



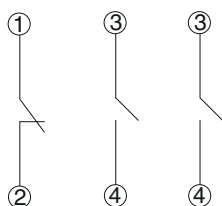
Double-contact unit
(2NO/2NO/2NC)



Terminal Connection Diagrams

2NO/1NC
Contact configuration code:112

Bottom View



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

Indicators M22N

22-mm dia. Indicators
Control panel miniaturization through a more compact design and modified wiring direction.
Addition of Push-In Plus terminal blocks for easy wiring.



Easy to Use


- Improved wiring visibility through to a modified wiring direction. (Push-In Plus terminal block type)
- Screw terminal structure is compatible with round crimp terminals. (Screw terminal block type)

Miniaturization

- No need for extra lateral space because of the modified wiring direction. (Push-In Plus terminal block type)
- Compact design.

Product Lineup

- Meet global safety standards.
- Can be installed in two types of panel hole dimensions: 22.3 and 25.5 dia.
- The indicators come in a wide variety of colors and shapes.
- Standard-feature degree of protection: IP66, NEMA 4X, and NEMA 13.

 Refer to *Safety Precautions for All Pushbutton Switches/ Indicators and Safety Precautions* on page 89.

Indicator Unit Colors

	Red	Green	Yellow	White	Blue	Orange	White
When not lit							
When lit	Red	Green	Yellow	White	Blue	Orange	Opaque white*

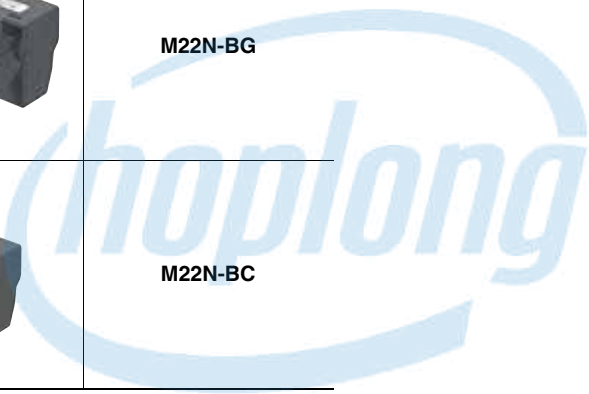
* The colors when the Switches are lit are for transparent white Indicator Units (code: TW) and yellow LED Lamps (code: Y).

M22N

List of Models

Screw Terminal Blocks/Push-In Plus Terminal Blocks	
Appearance	Model
Plastic flat 	M22N-BN
Plastic projected 	M22N-BP
Plastic semi-spherical 	M22N-BG
Plastic flat etched 	M22N-BC

INDUSTRIAL AUTOMATION



- 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

Model Number Structure

Model Number Legend -- Shipped as a set that includes the Indicator Unit, LED Lamp, and Socket Unit.
For information on combinations, refer to *Ordering Information* on page 50.

Model Numbers for Sets

M 2 2 N - ⁽¹⁾BN - ⁽²⁾TR ⁽³⁾A - ⁽⁴⁾R ⁽⁵⁾A - ⁽⁶⁾

(1) Indicator Unit Shape

Code	Shape
BN	Plastic flat
BP	Plastic projected
BG	Plastic semi-spherical
BC	Plastic flat etched

(2) Indicator Color and (4) LED Lamp Color

Code (2)	Code (4)	Indicator color	LED Lamp color
TR	R	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 Indicator is lit.

(3) Degree of Protection

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

(5) LED Lamp Voltage

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

(6) Terminals Specifications

Code	Specification
No Code	Screw Terminal Block
P	Push-In Plus Terminal Block

INDUSTRIAL AUTOMATION

■ Specifications: Refer to page 51.
■ Accessories and tools: Refer to pages 84 to 85.

■ Dimensions: Refer to page 52.
■ Precautions for correct use: Refer to pages 89 to 100.

M22N

Ordering Information

Model Numbers for Sets - - - - Shipped as a set that includes the Indicator Unit, LED Lamp, and Socket Unit.

Indicators

Appearance	Rated voltage	Model	(2)(2) Indicator color	(4) LED lamp color
Plastic flat 	6 VAC/DC	M22N-BN-(2)(2)A-(4)A		
		M22N-BN-(2)(2)A-(4)A-P		
	12 VAC/DC	M22N-BN-(2)(2)A-(4)B		
		M22N-BN-(2)(2)A-(4)B-P		
	24 VAC/DC	M22N-BN-(2)(2)A-(4)C		
		M22N-BN-(2)(2)A-(4)C-P		
	100, 110, or 120 VAC	M22N-BN-(2)(2)A-(4)D		
		M22N-BN-(2)(2)A-(4)D-P		
	200, 220, 230, or 240 VAC	M22N-BN-(2)(2)A-(4)E		
		M22N-BN-(2)(2)A-(4)E-P		
Plastic projected 	6 VAC/DC	M22N-BP-(2)(2)A-(4)A	TR: Transparent red TG: Transparent green TY: Transparent yellow TW: Transparent white TA: Transparent blue TO: Transparent orange	R: Red G: Green Y: Yellow W: White A: Blue O: Orange
		M22N-BP-(2)(2)A-(4)A-P		
	12 VAC/DC	M22N-BP-(2)(2)A-(4)B		
		M22N-BP-(2)(2)A-(4)B-P		
	24 VAC/DC	M22N-BP-(2)(2)A-(4)C		
		M22N-BP-(2)(2)A-(4)C-P		
	100, 110, or 120 VAC	M22N-BP-(2)(2)A-(4)D		
		M22N-BP-(2)(2)A-(4)D-P		
	200, 220, 230, or 240 VAC	M22N-BP-(2)(2)A-(4)E		
		M22N-BP-(2)(2)A-(4)E-P		
Plastic semi-spherical 	6 VAC/DC	M22N-BG-(2)(2)A-(4)A		
		M22N-BG-(2)(2)A-(4)A-P		
	12 VAC/DC	M22N-BG-(2)(2)A-(4)B		
		M22N-BG-(2)(2)A-(4)B-P		
	24 VAC/DC	M22N-BG-(2)(2)A-(4)C		
		M22N-BG-(2)(2)A-(4)C-P		
	100, 110, or 120 VAC	M22N-BG-(2)(2)A-(4)D		
		M22N-BG-(2)(2)A-(4)D-P		
	200, 220, 230, or 240 VAC	M22N-BG-(2)(2)A-(4)E		
		M22N-BG-(2)(2)A-(4)E-P		
Plastic flat etched 	6 VAC/DC	M22N-BC-(2)(2)A-(4)A		
		M22N-BC-(2)(2)A-(4)A-P		
	12 VAC/DC	M22N-BC-(2)(2)A-(4)B		
		M22N-BC-(2)(2)A-(4)B-P		
	24 VAC/DC	M22N-BC-(2)(2)A-(4)C		
		M22N-BC-(2)(2)A-(4)C-P		
	100, 110, or 120 VAC	M22N-BC-(2)(2)A-(4)D		
		M22N-BC-(2)(2)A-(4)D-P		
	200, 220, 230, or 240 VAC	M22N-BC-(2)(2)A-(4)E		
		M22N-BC-(2)(2)A-(4)E-P		

Note: Normally, the Indicator Unit and LED Lamp with the same color are combined. However, opaque white is available by combining a white Indicator Unit and yellow LED. M22N-B□-TWA-Y□-□

- Specifications: Refer to page 51.
- Dimensions: Refer to page 52.
- Accessories and tools: Refer to pages 84 to 85.
- Precautions for correct use: Refer to pages 89 to 100.

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

Ratings and Specifications

Certified Standard Ratings

UL508 (File No.E76675), CSA C22.2 No.14

12 mA 6 VAC/DC
12 mA 12 VAC/DC
12 mA 24 VAC/DC
12 mA 100-120 VAC
12 mA 200-240 VAC

TÜV (EN60947-5-1)

80 mA 6 VAC/DC
40 mA 12 VAC/DC
20 mA 24 VAC/DC
10 mA 100-120 VAC
5 mA 200-240 VAC

CCC (GB14048.5)

6, 12, 24 VAC/DC
100-120, 200-240 VAC

Application Standards

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

Ratings

LED Lamps

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

Characteristics

Item	Type	Indicator
Allowable operating frequency	Mechanical	---
	Electrical	---
Insulation resistance		---
Contact resistance		---
Dielectric strength	Between terminals of same polarity	---
	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
Shock resistance	Malfunction	1,000 m/s ² max.
Durability	Mechanical	---
	Electrical	---
Ambient operating temperature ^{*1}		-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, NEMA 4X, NEMA13
Electric shock protection class		Class II
PTI (tracking characteristic)		175
Degree of contamination (application environment)		3 (EN 60947-5-1)
Weight		Approx. 30 g

*1. With no icing or condensation.

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

M22N

Dimensions

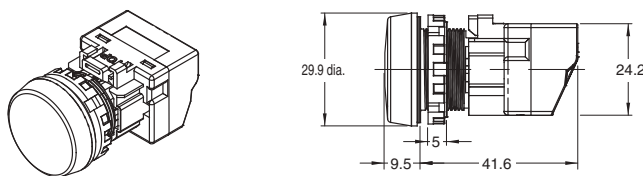
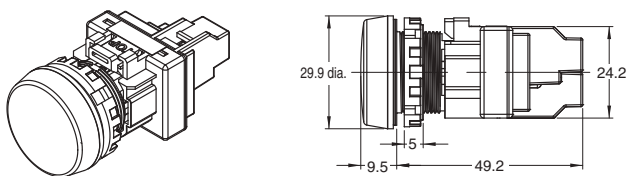
(Unit: mm)

Indicators

Plastic Flat Indicators

M22N-BN-□□A-□□

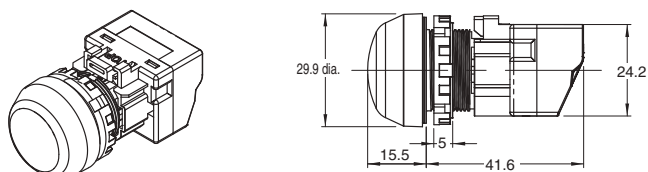
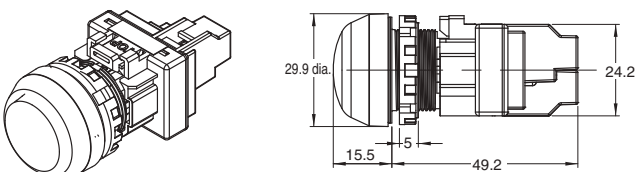
M22N-BN-□□A-□□-P



Plastic Semi-spherical Indicators

M22N-BG-□□A-□□

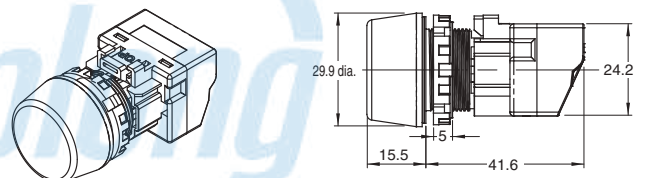
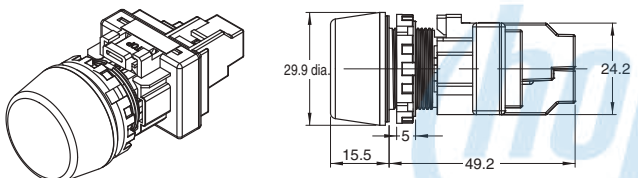
M22N-BG-□□A-□□-P



Plastic Projected Indicators

M22N-BP-□□A-□□

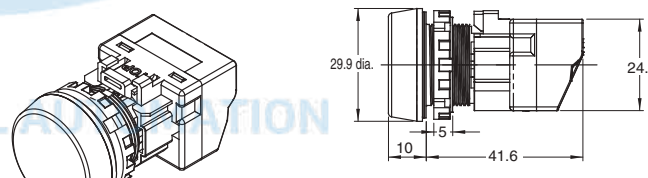
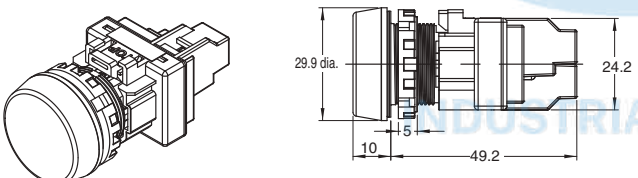
M22N-BP-□□A-□□-P



Plastic Flat Etched Indicators

M22N-BC-□□A-□□

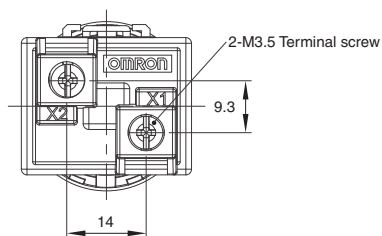
M22N-BC-□□A-□□-P



Terminal Arrangement

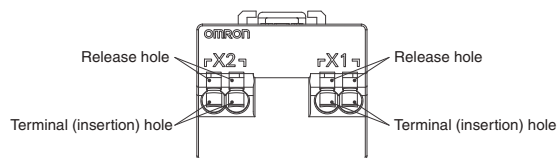
BOTTOM VIEW

Screw terminal block type



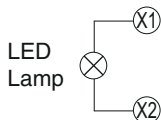
BOTTOM VIEW

Push-in Plus terminal block type



Terminal Connection Diagrams

Screw terminal block type
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