### OMRON

Selector Switches A22N

Key-type Selector Switches

A22N

M22N

Pushbutton Switches
A30N

Selector Switches
A30N

# **Pushbutton Switches** A<u>22</u>NI

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 88.

### **Button Colors**



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

ist of Models			hbutton Switches A22N
	Screw Terminal Blocks/Push-In Plus Termir	nal Blocks	Nitch
Plastic bezels	Brushed metal bezels	Metal bezels	es
A22N□-BN	A22N□-MN	A22N□-RN	s l
lat	Flat	Flat	Selector Switches A22N
A22N□-BP	A22N□-MP	A22N□-RP	Key-type Selector Switches
rojected	Projected	Projected	- Switch
			Indicators M22N
A22N□-BG	A22N□-MG		Pus
ull guard	Full guard		Pushbutton Switches A30N
A22N□-BM	A22ND-MM Mushroom	A22N□-RM Mushroom	Selector Switches
			Key-type Selector Switches A30N
			Subassemblies (Common)

Push

Accessories and Tools

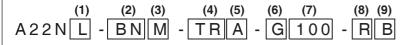
Safety Precautions

### **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**



#### (1) **Type**

Selector Switches A22N

Key-type Selector Switches A22N

M22N

Pushbutton Switches
A30N

Selector Switches A30N

Code	Description
Ν	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
М	Momentary
А	Alternate

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

Key-type Selector Switches A30N	Lighted/non-lighted	Code (4)	Code (8)	Transparency	Button color	LED lamp color
type		NR	Ν	Opaque	Red	
A Sel		NG	Ν	Opaque	Green	
e Selector S		NY	Ν	Opaque	Yellow	
<b>S</b> wi		NW	Ν	Opaque	White	
tche		NA	Ν	Opaque	Blue	
	Non lighted	NB	Ν	Opaque	Black	
Subassemblies (Common)	Non-lighted	UR	Ν	Transparent	Red	
		UG	Ν	Transparent	Green	
		UY	Ν	Transparent	Yellow	
		UW	Ν	Transparent	White	
		UA	Ν	Transparent	Blue	
) jes		UO	Ν	Transparent	Orange	
••		TR	R	Transparent	Red	Red
~ >		TG	G	Transparent	Green	Green
an cc		ΤY	Y	Transparent		Yellow
<b>D</b> O	Lighted	ТW	W	Transparent	White	White
ြီး		TA	А	Transparent	Blue	Blue
ssories Tools		TO	0	Transparent	Orange	Orange
° S		TW	Y	Transparent	White *	Yellow

The color is opaque white when the Switch is lit.

■ Specifications: Refer to page 13.

Dimensions: Refer to pages 15 to 17.

### (5) Degree of Protection

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

### (6) Contacts and Terminals Specifications

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

### (7) Contacts

	Con	tact	Unit position						
Code Bloc		cks	Non-lighted			Lighted			
	NO	NC	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
А	6 VAC/DC
В	12 VAC/DC
С	24 VAC/DC
D	100/110/120 VAC
E	200/220/230/240 VAC

- Precautions for correct use: Refer to pages 88 to 99.
- Accessories and tools: Refer to pages 84 to 85.

OMRON

Precautions Safety

### **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)	(7)(7)(7)	ector Switches
Appearance	Contacts	Model	Model	Button color	Contacts	NN S¥
Plastic bezels	1	A22NN-BNM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BNA-(4)(4)A-G(7)(7)(7)-NN		100	<b>V</b> itch
a ter	I	A22NN-BNM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BNA-(4)(4)A-P(7)(7)(7)-NN		002	es
and the second s	2	A22NN-BNM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BNA-(4)(4)A-G(7)(7)(7)-NN		101 102	
	2	A22NN-BNM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BNA-(4)(4)A-P(7)(7)(7)-NN		202	ey-ty
	3	A22NN-BNM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BNA-(4)(4)A-G(7)(7)(7)-NN		111 112	Key-type Selector Switches
	5	A22NN-BNM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BNA-(4)(4)A-P(7)(7)(7)-NN	<b>NR:</b> Opaque, red	122 222	2N
Brushed metal	1	A22NN-MNM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MNA-(4)(4)A-G(7)(7)(7)-NN	NG: Opaque, green	100	tche
bezels	I	A22NN-MNM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MNA-(4)(4)A-P(7)(7)(7)-NN	NY: Opaque, yellow	002	
1.50	_	A22NN-MNM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MNA-(4)(4)A-G(7)(7)(7)-NN	NW:Opaque, white NA: Opaque, blue	101	-
	2	A22NN-MNM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MNA-(4)(4)A-P(7)(7)(7)-NN	NB: Opaque, black UR: Transparent, red	102 202	<b>N</b> a
	3	A22NN-MNM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MNA-(4)(4)A-G(7)(7)(7)-NN	UG: Transparent, green UY: Transparent, yellow	111 112	Indicators
	5	A22NN-MNM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MNA-(4)(4)A-P(7)(7)(7)-NN	UW:Transparent, white UA: Transparent, blue UO: Transparent, orange	122 222	
Metal bezels	1	A22NN-RNM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RNA-(4)(4)A-G(7)(7)(7)-NN	bo. mansparent, orange	100	
a com	I	A22NN-RNM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RNA-(4)(4)A-P(7)(7)(7)-NN		002	Pus
	2	A22NN-RNM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RNA-(4)(4)A-G(7)(7)(7)-NN		101 102	A
	2	A22NN-RNM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RNA-(4)(4)A-P(7)(7)(7)-NN		202	A30N
	3	A22NN-RNM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RNA-(4)(4)A-G(7)(7)(7)-NN		111 112	Pushbutton Switches
	3	A22NN-RNM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RNA-(4)(4)A-P(7)(7)(7)-NN		122 222	es

### Lighted, Flat Switches

Lighted, Fl	at Switc	hes						Selector Switches A30N
Appearance	Contacts	Momentary action (self-resetting)	Alternate action (self-holding)	(4)(4) Button color	(7)(7)(7) Contacts	(8) LED Lamp	(9)	ctor Switch
		Model	Model	Bullon color	Contacts	color	LED Lamp voltage	les
Plastic bezels		A22NL-BNM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-BNA- (4)(4)A-G(7)(7)(7)-(8)(9)		100			Ke
	1	A22NL-BNM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-BNA- (4)(4)A-P(7)(7)(7)-(8)(9)		002			y-type S
		A22NL-BNM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-BNA- (4)(4)A-G(7)(7)(7)-(8)(9)	101 102 202				Key-type Selector Switches
	2	A22NL-BNM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-BNA- (4)(4)A-P(7)(7)(7)-(8)(9)					Switche 
Brushed metal bezels		A22NL-MNM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-MNA- (4)(4)A-G(7)(7)(7)-(8)(9)	TD. Transmournt rod	100	R: Red		
	1	A22NL-MNM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-MNA- (4)(4)A-P(7)(7)(7)-(8)(9)	TG: Transparent, red         TG: Transparent, green         TY: Transparent, vellow         TW: Transparent, white         TA: Transparent, blue         TO:Transparent, orange	002	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	Ubas
		A22NL-MNM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-MNA- (4)(4)A-G(7)(7)(7)-(8)(9)		101 102 202			Subassemblies (Common)
	2	A22NL-MNM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-MNA- (4)(4)A-P(7)(7)(7)-(8)(9)					
Metal bezels		A22NL-RNM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-RNA- (4)(4)A-G(7)(7)(7)-(8)(9)	-	100			
	1	A22NL-RNM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-RNA- (4)(4)A-P(7)(7)(7)-(8)(9)		002			Acce
		A22NL-RNM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-RNA- (4)(4)A-G(7)(7)(7)-(8)(9)	1	101	+		Accessories and Tools
	2	A22NL-RNM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-RNA- (4)(4)A-P(7)(7)(7)-(8)(9)	1	102 202			ies l

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. A22ND-DDD-TWA-DDD-YD

■ 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.

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Safety Precautions

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### **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

-							
elector Switches	Appearance	Contacts	Momentary action (self-resetting)	Alternate action (self-holding)	(4)(4)	(7)(7)(7)	
Sro	Appearance	Contacts	Model	Model	Button color	Contacts	
- Nito	Plastic bezels	1	A22NN-BPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BPA-(4)(4)A-G(7)(7)(7)-NN		100	
hes		1	A22NN-BPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BPA-(4)(4)A-P(7)(7)(7)-NN		002	
	State of the second sec		A22NN-BPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BPA-(4)(4)A-G(7)(7)(7)-NN		101	
Key-t		2	A22NN-BPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BPA-(4)(4)A-P(7)(7)(7)-NN	_	102 202	
Key-type Selector Switches		3	A22NN-BPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BPA-(4)(4)A-G(7)(7)(7)-NN	_	111 112	
ctor S		0	A22NN-BPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BPA-(4)(4)A-P(7)(7)(7)-NN		122 222	
Nitch	Brushed metal		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	100	
Sal	B bezels	1	A22NN-MPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MPA-(4)(4)A-P(7)(7)(7)-NN	NY: Opaque, yellow	002	
	100	2 3	A22NN-MPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MPA-(4)(4)A-G(7)(7)(7)-NN	NW:Opaque, white NA: Opaque, blue	101	
Indicators M22N			2	A22NN-MPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MPA-(4)(4)A-P(7)(7)(7)-NN	NB: Opaque, black UR: Transparent, red	102 202
	Mr.		A22NN-MPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MPA-(4)(4)A-G(7)(7)(7)-NN	UG: Transparent, green UY: Transparent, yellow	111 112	
- IS		3	A22NN-MPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MPA-(4)(4)A-P(7)(7)(7)-NN	UW:Transparent, white UA: Transparent, blue UO: Transparent, orange	122 222	
	Metal bezels	1	A22NN-RPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RPA-(4)(4)A-G(7)(7)(7)-NN	oo. Hansparent, orange	100	
Pu	a ser	1	A22NN-RPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RPA-(4)(4)A-P(7)(7)(7)-NN		002	
Ishbi	ushbuttor	-	A22NN-RPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RPA-(4)(4)A-G(7)(7)(7)-NN		101	
utton		2	A22NN-RPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RPA-(4)(4)A-P(7)(7)(7)-NN		102 202	
Pushbutton Switches			A22NN-RPM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RPA-(4)(4)A-G(7)(7)(7)-NN		111 112	
thes		3	A22NN-RPM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RPA-(4)(4)A-P(7)(7)(7)-NN		122 222	

### Lighted, Projected Switches

ŭ			A22NN-RPM-(4)(4)A-P(7)	(7)(7)-NN	A22NN-RP	A-(4)(4)A-P(7)(7)(7)-NN				222
Selector Switches A30N	Lighted, Pr	ojected	Switches				·			
or Swi	Appearance	Contacts	Momentary actionAlternate action(self-resetting)(self-holding)		(4)(4) Button color	(7)(7)(7) Contacts	(8) LED Lamp		(9)	
L tche			Model	Mod	del	Button color	Contacts	color	LED	Lamp voltage
	Plastic bezels	4	A22NL-BPM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-BPA- (4)(4)A-G(7)(7)(7)-(8)(9)			100			
Key-typ		I	A22NL-BPM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-BPA- (4)(4)A-P(7)(7			002			
Key-type Selector Switches A 30N		2	A22NL-BPM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-BPA- (4)(4)A-G(7)(			101 102			
or Switc		2	A22NL-BPM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-BPA- (4)(4)A-P(7)(7			202			
	bezels				- <b>TR:</b> Transparent, red	100	R: Red			
Suba (Co		I	A22NL-MPM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-MPA- (4)(4)A-P(7)(7		<b>TG:</b> Transparent, green <b>TY:</b> Transparent, yellow	002	G: Green Y: Yellow	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC D: 100/110/120 VAC E: 200/220/230/240 VAC	AC/DC
Isser		2	A22NL-MPM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-MPA- (4)(4)A-G(7)(		<b>TW:</b> Transparent, white <b>TA:</b> Transparent, blue	101 102	W: White A: Blue		110/120 VAC
Subassemblies (Common)		2	A22NL-MPM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-MPA- (4)(4)A-P(7)(7		TO: Transparent, orange	202	<b>0:</b> Orange		
S;	Metal bezels	1	A22NL-RPM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-RPA- (4)(4)A-G(7)(1			100			
Acce		I	A22NL-RPM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-RPA- (4)(4)A-P(7)(7			002			
esso d To		A22NL-RPM- (4)(4)A-G(7)(7)(7)-(8)(9) A22NL-RPA- (4)(4)A-G(7)(7)(7)-(8)(9) (4)(4)A-G(7)(7)(7)-				101 102				
Accessories and Tools	. A22NL-RPM- (4)(4)A-P(7)(7)(7)-(8)(9) (4)(4)A-P(7)(7)				202					
					ara aambir					

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

■ Subassemblies: Refer to pages 9 to 12 and 82.

(You can order Operation Units, LED Lamps, Mounting Collars, and

However, opaque white is available by combining a white Button and yellow LED. A22N $-\Box$  $\Box$  $-\underline{TW}A-\Box$  $\Box$  $\Box$  $-\underline{Y}\Box$ 

- Specifications: Refer to page 13.
- Dimensions: Refer to pages 15 to 17.

Accessories and tools: Refer to pages 84 to 85.

Contact Blocks individually.)

### **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

•		Momentary action (self-resetting)	Alternate action (self-holding)	(4)(4)	(7)(7)(7)	Þ°€
Appearance	Contacts	Model	Model	Button color	Contacts	Selector Switche
Plastic bezels	1	A22NN-BGM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BGA-(4)(4)A-G(7)(7)(7)-NN		100	Zitc
-	1	A22NN-BGM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BGA-(4)(4)A-P(7)(7)(7)-NN		002	hes
		A22NN-BGM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BGA-(4)(4)A-G(7)(7)(7)-NN		101	
	2	A22NN-BGM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BGA-(4)(4)A-P(7)(7)(7)-NN	NR: Opaque, red	102 202	Key-t
3	A22NN-BGM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BGA-(4)(4)A-G(7)(7)(7)-NN	NG: Opaque, green NY: Opaque, yellow NW:Opaque, white	111 112	Key-type Selector Switc A22N	
	5	A22NN-BGM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BGA-(4)(4)A-P(7)(7)(7)-NN	NA: Opaque, blue NB: Opaque, black	122 222	2N 2N
rushed metal	1	A22NN-MGM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MGA-(4)(4)A-G(7)(7)(7)-NN	UR: Transparent, red	100	
ezels	1	A22NN-MGM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MGA-(4)(4)A-P(7)(7)(7)-NN	UG: Transparent, green UY: Transparent, yellow	002	es
120		A22NN-MGM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MGA-(4)(4)A-G(7)(7)(7)-NN	UW:Transparent, white UA: Transparent, blue	101	
	2	A22NN-MGM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MGA-(4)(4)A-P(7)(7)(7)-NN	UO: Transparent, orange	102 202	25
	3	A22NN-MGM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MGA-(4)(4)A-G(7)(7)(7)-NN		111 112	Indicators M22N
	5	A22NN-MGM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MGA-(4)(4)A-P(7)(7)(7)-NN		122 222	<b>~</b> 3

#### 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	(9)	Pushbutton Switches A30N
		Model	Model	Button color	Contacts	color	LED Lamp voltage	<b>N</b> S N
Plastic bezels	1	A22NL-BGM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-BGA- (4)(4)A-G(7)(7)(7)-(8)(9)		100			itches 
		A22NL-BGM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-BGA- (4)(4)A-P(7)(7)(7)-(8)(9)		002			
	2	A22NL-BGM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-BGA- (4)(4)A-G(7)(7)(7)-(8)(9)	101		R: Red		Selector Switches
	2	A22NL-BGM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-BGA- (4)(4)A-P(7)(7)(7)-(8)(9)	<b>TR:</b> Transparent, red <b>TG:</b> Transparent, green <b>TY:</b> Transparent, yellow	102 202	G: Green Y: Yellow	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC	A30N
Brushed metal	ushed metal zels 1	A22NL-MGM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-MGA- (4)(4)A-G(7)(7)(7)-(8)(9)	TW: Transparent, white TA: Transparent, blue	100	W: White A: Blue O: Orange	<b>D:</b> 100/110/120 VAC <b>E:</b> 200/220/230/240 VAC	ches
		A22NL-MGM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-MGA- (4)(4)A-P(7)(7)(7)-(8)(9)	TO: Transparent, orange	002			Key
	2	A22NL-MGM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-MGA- (4)(4)A-G(7)(7)(7)-(8)(9)	*	101 102			-type Se
	2	A22NL-MGM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-MGA- (4)(4)A-P(7)(7)(7)-(8)(9)	*	202			Key-type Selector Switches A30N
			e same color are combin bining a white Button and	led. d vellow LED. A22N⊡-⊡	□□-TWA·		]	witches
	,	,	<b>9</b>					S
								Subassemblies (Common)
								mm

■ 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.

Accessories and Tools

Safety Precautions

A22N

### **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

Se	Non-lighte	u, musn	room Switches			
Selector Switches	Appearance	Contacts	Momentary action (self-resetting)	Alternate action (self-holding)	(4)(4)	(7)(7)(7)
A22N	Appearance	Contacts	Model	Model	Button color	Contacts
Ž	Plastic bezels	1	A22NN-BMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BMA-(4)(4)A-G(7)(7)(7)-NN		100
hes		1	A22NN-BMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BMA-(4)(4)A-P(7)(7)(7)-NN		002
		2	A22NN-BMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BMA-(4)(4)A-G(7)(7)(7)-NN		101 102
Key-t		2	A22NN-BMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BMA-(4)(4)A-P(7)(7)(7)-NN		202
ype Sel		3	A22NN-BMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-BMA-(4)(4)A-G(7)(7)(7)-NN		111 112
Key-type Selector Switches		3	A22NN-BMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-BMA-(4)(4)A-P(7)(7)(7)-NN	NR: Opague, red	122 222
vitch	Brushed metal	1	A22NN-MMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MMA-(4)(4)A-G(7)(7)(7)-NN	NG: Opaque, green	100
ß	bezels	1	A22NN-MMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MMA-(4)(4)A-P(7)(7)(7)-NN	NY: Opaque, yellow	002
		_	A22NN-MMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MMA-(4)(4)A-G(7)(7)(7)-NN	NW:Opaque, white NA: Opaque, blue	101
<b>-</b> -		2	A22NN-MMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MMA-(4)(4)A-P(7)(7)(7)-NN	NB: Opaque, black UR: Transparent, red	102 202
Indicators		3	A22NN-MMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-MMA-(4)(4)A-G(7)(7)(7)-NN	UG: Transparent, green UY: Transparent, yellow	111 112
		3	A22NN-MMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-MMA-(4)(4)A-P(7)(7)(7)-NN	UW:Transparent, white UA: Transparent, blue UO: Transparent, orange	122 222
	Metal bezels	1	A22NN-RMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RMA-(4)(4)A-G(7)(7)(7)-NN	<b>UO.</b> Transparent, orange	100
P	1 2 C	1	A22NN-RMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RMA-(4)(4)A-P(7)(7)(7)-NN		002
Ishbu			A22NN-RMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RMA-(4)(4)A-G(7)(7)(7)-NN		101
		2	A22NN-RMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RMA-(4)(4)A-P(7)(7)(7)-NN		102 202
Pushbutton Switches		0	A22NN-RMM-(4)(4)A-G(7)(7)(7)-NN	A22NN-RMA-(4)(4)A-G(7)(7)(7)-NN		111 112
thes		3	A22NN-RMM-(4)(4)A-P(7)(7)(7)-NN	A22NN-RMA-(4)(4)A-P(7)(7)(7)-NN		122 222

### Lighted, Mushroom Switches

Sa			A22NN-RMM-(4)(4)A-P(7)	(7)(7)-NN	A22NN-RN	IA-(4)(4)A-P(7)(7)(7)-NN			222
Selec	Lighted, M	ushroon	n Switches						
Selector Switches A30N	Appearance	Contacts	Momentary action (self-resetting) (self-holding) Model Model		(4)(4) Button color	(7)(7)(7) Contacts	(8) LED Lamp	(9) LED Lamp voltage	
<b>∠</b> itch					Button color	Contacts	color		
es	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)			100		
Key-ty		I	A22NL-BMM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-BMA- (4)(4)A-P(7)(7)(7)-(8)(9) A22NL-BMA- (4)(4)A-G(7)(7)(7)-(8)(9)			002		
Key-type Selector Switches A 30N	ON	0	A22NL-BMM- (4)(4)A-G(7)(7)(7)-(8)(9)				101 102		
DN DN			A22NL-BMA (4)(4)A-P(7)(			202			
	Brushed metal bezels	1	A22NL-MMM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-MMA (4)(4)A-G(7)(	-	9) TR: Transparent, red	100	R: Red	
Sub (C		I	A22NL-MMM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-MMA- (4)(4)A-P(7)(7)(7)-(8)(9)		<b>TG:</b> Transparent, green <b>TY:</b> Transparent, yellow	002	G: Green Y: Yellow	A: 6 VAC/DC B: 12 VAC/DC C: 24 VAC/DC
omr		2	A22NL-MMM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-MMA- (4)(4)A-G(7)(7)(7)-(8)(9)		TW: Transparent, white TA: Transparent, blue	101 102	W: White A: Blue	<b>D:</b> 100/110/120 VAC <b>E:</b> 200/220/230/240 VAC
Subassemblies (Common)		2	A22NL-MMM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-MMA (4)(4)A-P(7)(		TO: Transparent, orange	202	O: Orange	
) es	Metal bezels	1	A22NL-RMM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-RMA (4)(4)A-G(7)(			100		
Acc		1	A22NL-RMM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-RMA (4)(4)A-P(7)(			002		
id To	ON	2	A22NL-RMM- (4)(4)A-G(7)(7)(7)-(8)(9)	A22NL-RMA (4)(4)A-G(7)(			101		
Accessories and Tools			A22NL-RMM- (4)(4)A-P(7)(7)(7)-(8)(9)	A22NL-RMA (4)(4)A-P(7)(			102 202		
S			and LED Lamp with the		ara combir				

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 $\Box$ - $\Box$  $\Box$ -<u>TW</u>A- $\Box$  $\Box$ -<u>Y</u>

Specifications: Refer to page 13.

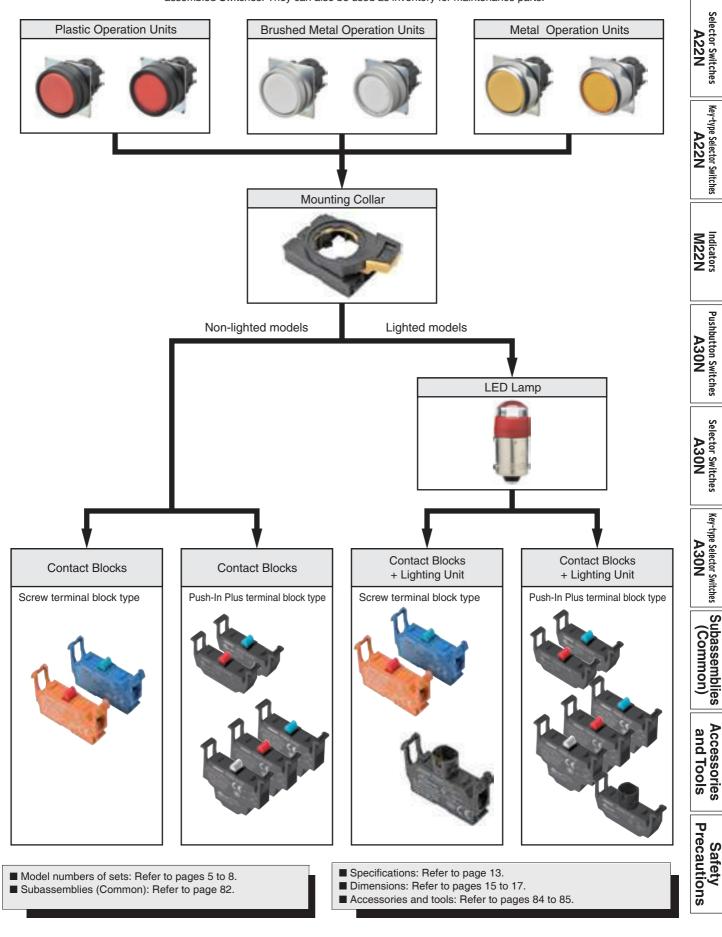
- Dimensions: Refer to pages 15 to 17.
- Accessories and tools: Refer to pages 84 to 85.

Safety Precautions

Pushbutton Switches A22N

### **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.



OMRON

### **Ordering Information**

Subassemblies ....

A22N

- 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.

Selec	Operation	Units	accomb			y for maintenance parte.	
Selector Switches A22N	Beze	el material and but	ton shape	Plastic, flat	<b>()</b>	Plastic, projected	: 颜
Key-type Selector Switches A22N	Lighted/	Switch Action		Momentary	Alternate	Momentary	Alternate
	non-lighted	Transparency	Color	Model	Model	Model	Model
		Opaque	Red	A22NZ-BNM-NRA	A22NZ-BNA-NRA	A22NZ-BPM-NRA	A22NZ-BPA-NRA
witcl		Opaque	Green	A22NZ-BNM-NGA	A22NZ-BNA-NGA	A22NZ-BPM-NGA	A22NZ-BPA-NGA
les		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
Mi	Non-lighted	Opaque	Black	A22NZ-BNM-NBA	A22NZ-BNA-NBA	A22NZ-BPM-NBA	A22NZ-BPA-NBA
Indicators M22N	Non-lighted	Transparent	Red	A22NZ-BNM-URA	A22NZ-BNA-URA	A22NZ-BPM-URA	A22NZ-BPA-URA
Zĭs		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
Pus		Transparent	Blue	A22NZ-BNM-UAA	A22NZ-BNA-UAA	A22NZ-BPM-UAA	A22NZ-BPA-UAA
shbu		Transparent	Orange	A22NZ-BNM-UOA	A22NZ-BNA-UOA	A22NZ-BPM-UOA	A22NZ-BPA-UOA
A30N		Transparent	Red	A22NZ-BNM-TRA	A22NZ-BNA-TRA	A22NZ-BPM-TRA	A22NZ-BPA-TRA
<b>N</b> N N		Transparent	Green	A22NZ-BNM-TGA	A22NZ-BNA-TGA	A22NZ-BPM-TGA	A22NZ-BPA-TGA
Pushbutton Switches A30N	Lighted	Transparent	Yellow	A22NZ-BNM-TYA	A22NZ-BNA-TYA	A22NZ-BPM-TYA	A22NZ-BPA-TYA
les	Lighted	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
Sel		Transparent	Orange	A22NZ-BNM-TOA	A22NZ-BNA-TOA	A22NZ-BPM-TOA	A22NZ-BPA-TOA
Selector Switches A30N				Plastic, full-guard		Plastic, mushroom	
itches V	Beze	el material and but	ton shape	<b>N</b>			

Bezel material and button shape

Key								
-type		Swit	ch Action	Momentary	Alternate	Momentary	Alternate	
Key-type Selector Switches A30N	Lighted/ non-lighted	Transparency	Color	Model	Model	Model	Model	
Z S		Opaque	Red	A22NZ-BGM-NRA	A22NZ-BGA-NRA	A22NZ-BMM-NRA	A22NZ-BMA-NRA	
litch		Opaque	Green	A22NZ-BGM-NGA	A22NZ-BGA-NGA	A22NZ-BMM-NGA	A22NZ-BMA-NGA	
es		Opaque	Yellow	A22NZ-BGM-NYA	A22NZ-BGA-NYA	A22NZ-BMM-NYA	A22NZ-BMA-NYA	
ုလ	Subassemblies	Opaque	White	A22NZ-BGM-NWA	A22NZ-BGA-NWA	A22NZ-BMM-NWA	A22NZ-BMA-NWA	
(Op)		Opaque	Blue	A22NZ-BGM-NAA	A22NZ-BGA-NAA	A22NZ-BMM-NAA	A22NZ-BMA-NAA	
on		Opaque	Black	A22NZ-BGM-NBA	A22NZ-BGA-NBA	A22NZ-BMM-NBA	A22NZ-BMA-NBA	
mën	Non-lighted	Transparent	Red	A22NZ-BGM-URA	A22NZ-BGA-URA	A22NZ-BMM-URA	A22NZ-BMA-URA	
일학		Transparent	Green	A22NZ-BGM-UGA	A22NZ-BGA-UGA	A22NZ-BMM-UGA	A22NZ-BMA-UGA	
) jes		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	
ωÞ		Transparent	Blue	A22NZ-BGM-UAA	A22NZ-BGA-UAA	A22NZ-BMM-UAA	A22NZ-BMA-UAA	
Accessories and Tools		Transparent	Orange	A22NZ-BGM-UOA	A22NZ-BGA-UOA	A22NZ-BMM-UOA	A22NZ-BMA-UOA	
T BS		Transparent	Red	A22NZ-BGM-TRA	A22NZ-BGA-TRA	A22NZ-BMM-TRA	A22NZ-BMA-TRA	
Sorio Tool:		Transparent	Green	A22NZ-BGM-TGA	A22NZ-BGA-TGA	A22NZ-BMM-TGA	A22NZ-BMA-TGA	
ie i	Lighted	Transparent	Yellow	A22NZ-BGM-TYA	A22NZ-BGA-TYA	A22NZ-BMM-TYA	A22NZ-BMA-TYA	
S	Lignied	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	
re		Transparent	Orange	A22NZ-BGM-TOA	A22NZ-BGA-TOA	A22NZ-BMM-TOA	A22NZ-BMA-TOA	
Safety Precautio								
ety utions		bers of sets: Ref plies (Common):			<ul> <li>Specifications: Refer to page 13.</li> <li>Dimensions: Refer to pages 15 to 17.</li> <li>Accessories and tools: Refer to pages 84 to 85.</li> </ul>			

OMRON

Pushbutton Switches A22N

### **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.

			·····		,		Sele
			Brushed metal, flat		Brushed metal, projected	d	<b>₽</b> ŝ
Bez	el material and but	ton shape					Selector Switches A22N
	Swi	tch Action	Momentary	Alternate	Momentary	Alternate	Key-
Lighted/ non-lighted	Transparency	Color	Model	Model	Model	Model	Key-type Selector Switches
	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	- Swit
	Opaque	Yellow	A22NZ-MNM-NYA	A22NZ-MNA-NYA	A22NZ-MPM-NYA	A22NZ-MPA-NYA	ches
	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	_
Non-lighted	Opaque	Black	A22NZ-MNM-NBA	A22NZ-MNA-NBA	A22NZ-MPM-NBA	A22NZ-MPA-NBA	23
Non-lighted	Transparent	Red	A22NZ-MNM-URA	A22NZ-MNA-URA	A22NZ-MPM-URA	A22NZ-MPA-URA	Indicators M22N
	Transparent	Green	A22NZ-MNM-UGA	A22NZ-MNA-UGA	A22NZ-MPM-UGA	A22NZ-MPA-UGA	Nors
	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	
	Transparent	Orange	A22NZ-MNM-UOA	A22NZ-MNA-UOA	A22NZ-MPM-UOA	A22NZ-MPA-UOA	Pushbutton Switches
	Transparent	Red	A22NZ-MNM-TRA	A22NZ-MNA-TRA	A22NZ-MPM-TRA	A22NZ-MPA-TRA	_ N∎
	Transparent	Green	A22NZ-MNM-TGA	A22NZ-MNA-TGA	A22NZ-MPM-TGA	A22NZ-MPA-TGA	A30N
Lighted	Transparent	Yellow	A22NZ-MNM-TYA	A22NZ-MNA-TYA	A22NZ-MPM-TYA	A22NZ-MPA-TYA	
Ligitieu	Transparent	White	A22NZ-MNM-TWA	A22NZ-MNA-TWA	A22NZ-MPM-TWA	A22NZ-MPA-TWA	_ ches
	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	Se

Brushed metal, full-guard Brushed metal, mushroom Bezel material and button shape Switch Action Momentary Alternate Momentary Alternate Lighted/ Transparency Color Model Model Model Model non-lighted A22NZ-MGM-NRA A22NZ-MGA-NRA A22NZ-MMM-NRA A22NZ-MMA-NRA Opaque Red 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 White A22NZ-MGM-NWA A22NZ-MMM-NWA A22NZ-MMA-NWA Opaque A22NZ-MGA-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 Non-lighted Transparent A22NZ-MGM-URA A22NZ-MGA-URA A22NZ-MMM-URA A22NZ-MMA-URA Red A22NZ-MGM-UGA A22NZ-MGA-UGA A22NZ-MMM-UGA A22NZ-MMA-UGA Transparent Green 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 Orange A22NZ-MGM-UOA A22NZ-MGA-UOA A22NZ-MMM-UOA A22NZ-MMA-UOA Transparent Transparent Red A22NZ-MGM-TRA A22NZ-MGA-TRA A22NZ-MMM-TRA A22NZ-MMA-TRA A22NZ-MGM-TGA Transparent Green A22NZ-MGA-TGA A22NZ-MMM-TGA A22NZ-MMA-TGA Transparent Yellow A22NZ-MGM-TYA A22NZ-MGA-TYA A22NZ-MMM-TYA A22NZ-MMA-TYA Lighted 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.

Selector Switches A30N

**Key-type Selector Switches** 

Subassemblies (Common)

A30N

### **Ordering Information**

A22N

select				Metal, flat		Metal, projected	
Selector Switches	Bezel material and button shape			¢ 🕥			
Key-t		Swi	tch Action	Momentary Alternate		Momentary	Alternate
Key-type Selector Switches	Lighted/ non-lighted	Transparency	Color	Model	Model	Model	Model
		Opaque	Red	A22NZ-RNM-NRA	A22NZ-RNA-NRA	A22NZ-RPM-NRA	A22NZ-RPA-NRA
Swi		Opaque	Green	A22NZ-RNM-NGA	A22NZ-RNA-NGA	A22NZ-RPM-NGA	A22NZ-RPA-NGA
tches		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
⊒	Non-Balata d	Opaque	Black	A22NZ-RNM-NBA	A22NZ-RNA-NBA	A22NZ-RPM-NBA	A22NZ-RPA-NBA
Indicators	Non-lighted	Transparent	Red	A22NZ-RNM-URA	A22NZ-RNA-URA	A22NZ-RPM-URA	A22NZ-RPA-URA
ţ.		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
P		Transparent	Blue	A22NZ-RNM-UAA	A22NZ-RNA-UAA	A22NZ-RPM-UAA	A22NZ-RPA-UAA
lsh		Transparent	Orange	A22NZ-RNM-UOA	A22NZ-RNA-UOA	A22NZ-RPM-UOA	A22NZ-RPA-UOA
Pushbutton Switches		Transparent	Red	A22NZ-RNM-TRA	A22NZ-RNA-TRA	A22NZ-RPM-TRA	A22NZ-RPA-TRA
ŝ		Transparent	Green	A22NZ-RNM-TGA	A22NZ-RNA-TGA	A22NZ-RPM-TGA	A22NZ-RPA-TGA
wit	Listated	Transparent	Yellow	A22NZ-RNM-TYA	A22NZ-RNA-TYA	A22NZ-RPM-TYA	A22NZ-RPA-TYA
che	Lighted	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
န		Transparent	Orange	A22NZ-RNM-TOA	A22NZ-RNA-TOA	A22NZ-RPM-TOA	A22NZ-RPA-TOA
Selector Switches	Bezel material and button shape			Metal, mushroom			

Key-ty		Swit	ch Action	Momentary	Alternate
Key-type Selector Switches A30N	Lighted/ non-lighted	Transparency	Color	Model	Model
<b>N</b> to s		Opaque	Red	A22NZ-RMM-NRA	A22NZ-RMA-NRA
witc		Opaque	Green	A22NZ-RMM-NGA	A22NZ-RMA-NGA
hes		Opaque	Yellow	A22NZ-RMM-NYA	A22NZ-RMA-NYA
S		Opaque	White	A22NZ-RMM-NWA	A22NZ-RMA-NWA
() မို		Opaque	Blue	A22NZ-RMM-NAA	A22NZ-RMA-NAA
on		Opaque	Black	A22NZ-RMM-NBA	A22NZ-RMA-NBA
nn	Non-lighted	Transparent	Red	A22NZ-RMM-URA	A22NZ-RMA-URA
<u>o</u> b		Transparent	Green	A22NZ-RMM-UGA	A22NZ-RMA-UGA
Subassemblies (Common)		Transparent	Yellow	A22NZ-RMM-UYA	A22NZ-RMA-UYA
S		Transparent	White	A22NZ-RMM-UWA	A22NZ-RMA-UWA
		Transparent	Blue	A22NZ-RMM-UAA	A22NZ-RMA-UAA
an		Transparent	Orange	A22NZ-RMM-UOA	A22NZ-RMA-UOA
Accessories and Tools		Transparent	Red	A22NZ-RMM-TRA	A22NZ-RMA-TRA
ြီး		Transparent	Green	A22NZ-RMM-TGA	A22NZ-RMA-TGA
rie	Lighted	Transparent	Yellow	A22NZ-RMM-TYA	A22NZ-RMA-TYA
° Ö	Ligitieu	Transparent	White	A22NZ-RMM-TWA	A22NZ-RMA-TWA
		Transparent	Blue	A22NZ-RMM-TAA	A22NZ-RMA-TAA
Pr		Transparent	Orange	A22NZ-RMM-TOA	A22NZ-RMA-TOA
Sat		•			
Safety Precautions		pers of sets: Ref lies (Common):			<ul> <li>Specifications: Refe</li> <li>Dimensions: Refer t</li> <li>Accessories and too</li> </ul>

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 vo	Itage	600 V	00 V					
Rated carry current	10 A	0 A						
Rated voltage	24 V	120 V	240 V	380 V	440 V	M2		
AC at 50/60 Hz	Resistive load (AC-12)	10 A	10 A	6 A	2A	2 A	licators	
AC at 50/00 HZ	Inductive load (AC-15)	10 A	6 A	3 A	1.9 A	1.6 A	ن <b>ک</b> ا	
DC	Resistive load (DC-12)	8 A	2.2 A	1.1 A				
DC	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/minute2. 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)
2 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%	
110 VAC	110 VAC ±10%	Approx. 12 mA (red, orange, yellow, or blue) Approx. 5 mA (white or green)
120 VAC	100 to 130 VAC	
200 VAC	200 VAC ±10%	
220 VAC	220 VAC ±10%	Approx. 12 mA (red, orange, yellow, or blue)
230 VAC	230 VAC ±10%	Approx. 5 mA (white or green)
240 VAC	220 to 250 VAC	

### Specifications

### Characteristics

		Туре	Pushbutton Switches		
Se	Item		Non-lighted models	Lighted models	
Selector Switches A22N	Allowable operating	Mechanical	60 operations/minute max.		
22 S	frequency	Electrical	30 operations/minute max.		
Zitch	Insulation resistance		100 MΩ min. (at 500 VDC) Not available for lighting		
es	Contact resistance		100 m $\Omega$ max. (initial value)		
	Dielectric strength	Between terminals of same polarity <sup>*1</sup>	2,500 VAC at 50/60 Hz for 1 min	Not available for lighting units	
y-typ	Dielectric strength	Between each terminal and ground	2,500 VAC at 50/60 Hz for 1 min		
	Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)		
Key-type Selector Switches A22N	Shock resistance	Malfunction	1,000 m/s <sup>2</sup> max. (malfunction within 1	ms)	
	Mechanical		Momentary action: 5,000,000 operations min. Alternate action: 500,000 operations min.		
	Durability	Electrical	500,000 operations min. (250 VAC, 3 A, with an inductive load having power factor $\cos \theta = 0$ .		
Indicators	Ambient operating tem	nperature*2	–25 to 70°C	–25 to 55°C	
Sat	Ambient operating hur	nidity	35% to 85% RH		
2 3	Ambient storage temp	erature <sup>*2</sup>	-40 to 80°C		
	Degree of protection*3		Conforming to IP66, NEMA 4X, NEMA13		
P	Electric shock protect	ion class	Class II		
ushb	PTI (tracking character	ristic)	175		
	Degree of contamination	on (application environment)	3 (EN 60947-5-1)		
Pushbutton Switches A30N	Weight		Approx. 50 g (for 1NC/1NO)	Approx. 65 g (for 1NC/1NO)	

\*2. With no icing or condensation.\*3. Degree of protection from the front of the panel.

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

Selector A3	Operating Characteristics (for SPST-NO/SPST-NC)					
	Туре	Pushbutton Switches				
Switches	Item	Lighted/non-lighted				
Ň	Total travel force (torque) (maximum TTF)	18 N				
Ke	Total travel (TT)	6 mm max.				
Key-type	Resetting force (torque) (RF)					
e Selector Switch A30N	Examples of Linked Contact Blocks (So	crew terminal block type)				

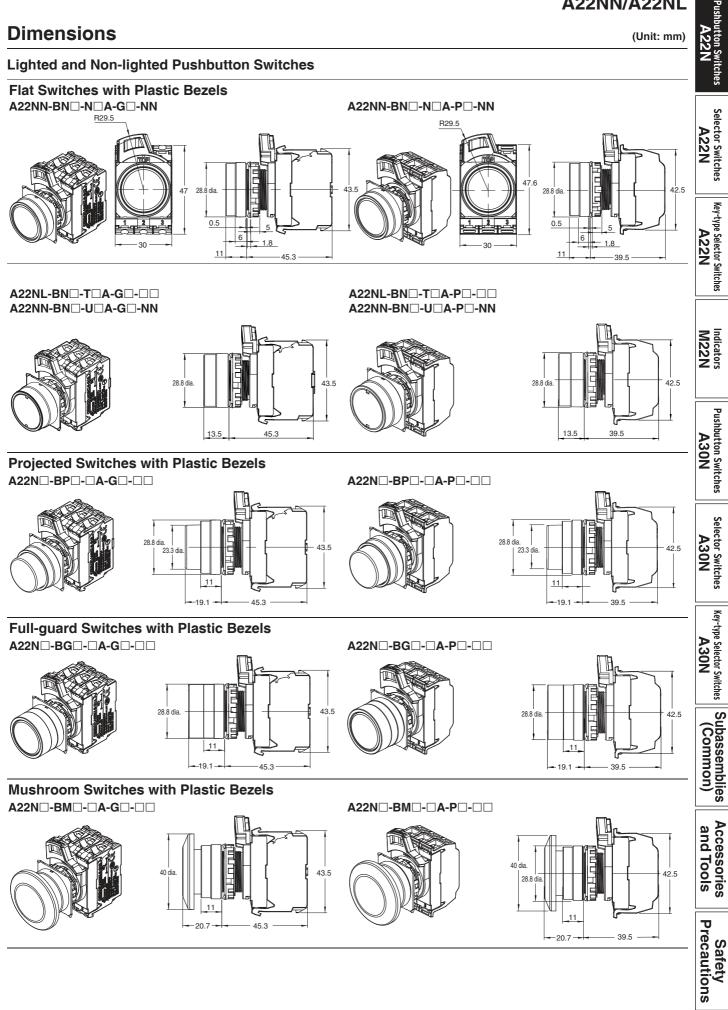
### Examples of Linked Contact Blocks (Screw terminal block type)

hes		Pushbutton Switches							
(uSu		Mome	entary	Alter	Alternate				
bas Coi		Lighted	Non-lighted	Lighted	Non-lighted				
Subassemblies (Common)		Operation Unit Mounting Collar	Operation Unit Mounting Collar	Operation Unit Mounting Collar	Operation Unit Mounting Collar				
Accessories and Tools	Linking example	Stage 2			Operation Unit Mounting Collar				

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)



### Dimensions

Pusne

tcnes

Selector Switches A22N

Key-type Selector Switches

Indicators M22N

Pushbutton Switches
A30N

Selector Switches A30N

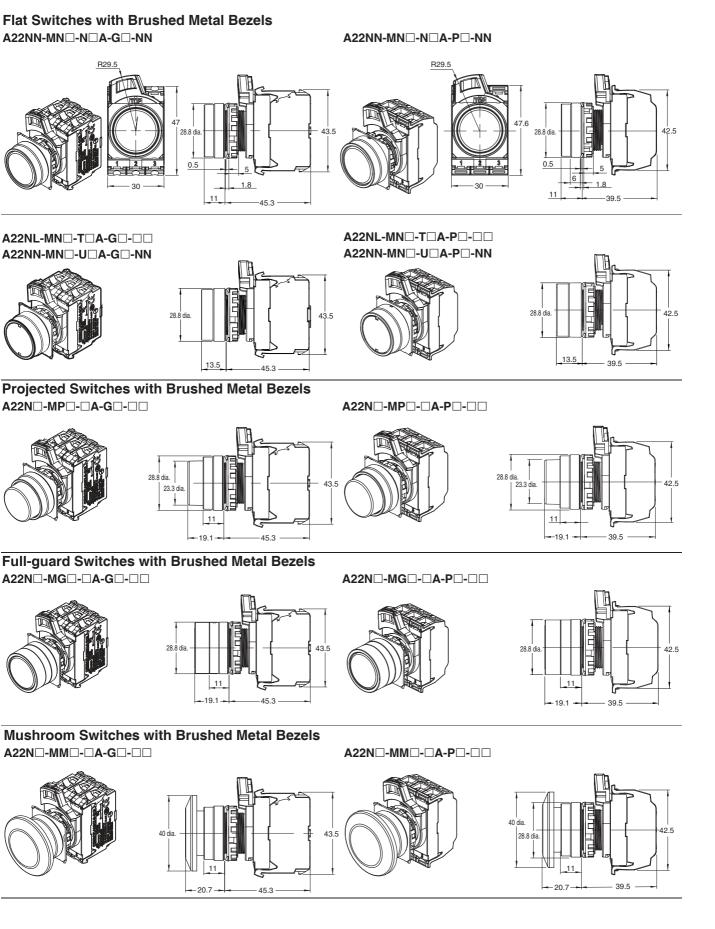
A30N (Common)

Accessories and Tools

Precautions

Safety

A22N

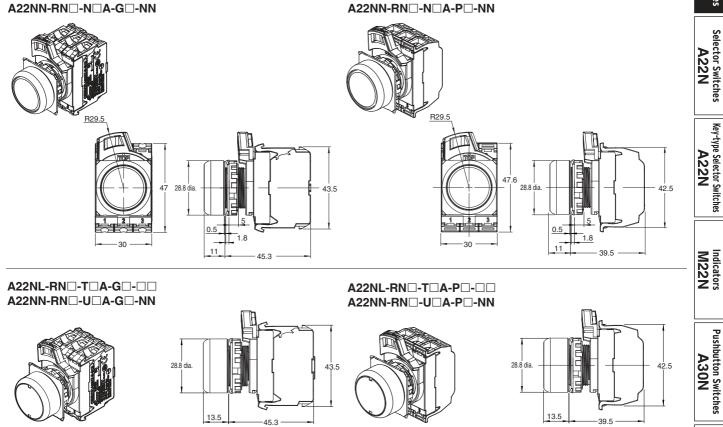


**Dimensions** 

(Unit: mm)

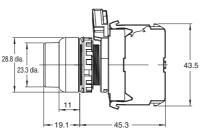






**Projected Switches with Metal Bezels** 

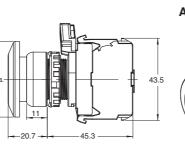




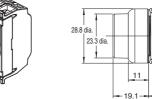
### **Mushroom Switches with Metal Bezels** A22N□-RM□-□A-G□-□□

40 c



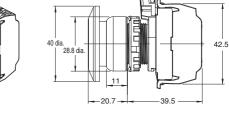








# A22N□-RM□-□A-P□-□□

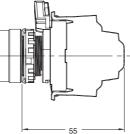


Key-type Selector Switches Subassemblies Accessories and Tools Safety Precautions

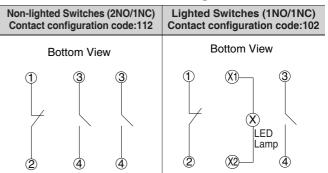
Selector Switches A30N

### A22N **Depth with Linked Units** (Screw terminal block type) Selector Switches A22N Key-type Selector Switches A22N 45.3 66.8 **Terminal Arrangement** BOTTOM VIEW (Screw terminal block type) Non-lighted Switches (2NO/1NC) Lighted Switches (1NO/1NC) Contact configuration code:112 Contact configuration code:102 Indicators 20 20 **|**<del>-</del>-10∙ -10-Lighting Unit Contact Blocks Pushbutton Switches A30N Six, M3 Phillips/ screws Six, M3.5 Phillips/s Contact Blocks Selector Switches A30N **BOTTOM VIEW** (Push-In Plus terminal block type) **Non-lighted Switches** Lighted Switches (1NO/1NC) (2NO/1NC) **Contact configuration Contact configuration** code:102 code:112 20 20 Key-type Selector Switches **|**<del>+</del>−10 **⊢**-10 Lighting Unit A30N 31.9 31.9 Subassemblies (Common) Contact Blocks Contact Blocks **Double-contact unit** Non-lighted (2NO/2NO/2NC) Accessories and Tools -23 NO -24 19.0 38.6 Precautions Safety

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



### **Terminal Connection Diagrams**



МЕМО

### Subassemblies (Common)

### **Ordering Information**

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

## Selector Switcl **LED Lamps**

hes		Rated voltage			Model					
Key	Appearance	Color	6 VAC/DC	12 VAC/DC	24 VAC/DC	100/110/120 VAC	200/220/230/240 VAC			
Key-type Selector Switches		Red	A22NZ-L-RA	A22NZ-L-RB	A22NZ-L-RC	A22NZ-L-RD	A22NZ-L-RE			
		Green	A22NZ-L-GA	A22NZ-L-GB	A22NZ-L-GC	A22NZ-L-GD	A22NZ-L-GE			
		Yellow	A22NZ-L-YA	A22NZ-L-YB	A22NZ-L-YC	A22NZ-L-YD	A22NZ-L-YE			
		White	A22NZ-L-WA	A22NZ-L-WB	A22NZ-L-WC	A22NZ-L-WD	A22NZ-L-WE			
		Blue	A22NZ-L-AA	A22NZ-L-AB	A22NZ-L-AC	A22NZ-L-AD	A22NZ-L-AE			
		Orange	A22NZ-L-OA	A22NZ-L-OB	A22NZ-L-OC	A22NZ-L-OD	A22NZ-L-OE			

### Indicators **Mounting Collar**



~	
100	
15	A22NZ-H-01

Model

### **Contact Blocks**

Ň								
	Appearance	Terminals Specifications	Contacts	Model				
Selector Swite A30N	The second	Screw terminal block	SPST-NO (blue)	A22NZ-S-G1A				
ches			SPST-NC (orange)	A22NZ-S-G1B				
Key-type S A			SPST-NO (blue)	A22NZ-S-P1A				
Key-type Selector Switches A30N		Push-In Plus terminal block	SPST-NC (red)	A22NZ-S-P1B				
ues Su		-	DPST-NO (blue)	A22NZ-S-P2A				
Ibassemblies (Common)		Push-In Plus terminal block	DPST-NC (red)	A22NZ-S-P2B				
			SPST-NO/SPST-NC (white)	A22NZ-S-P2C				

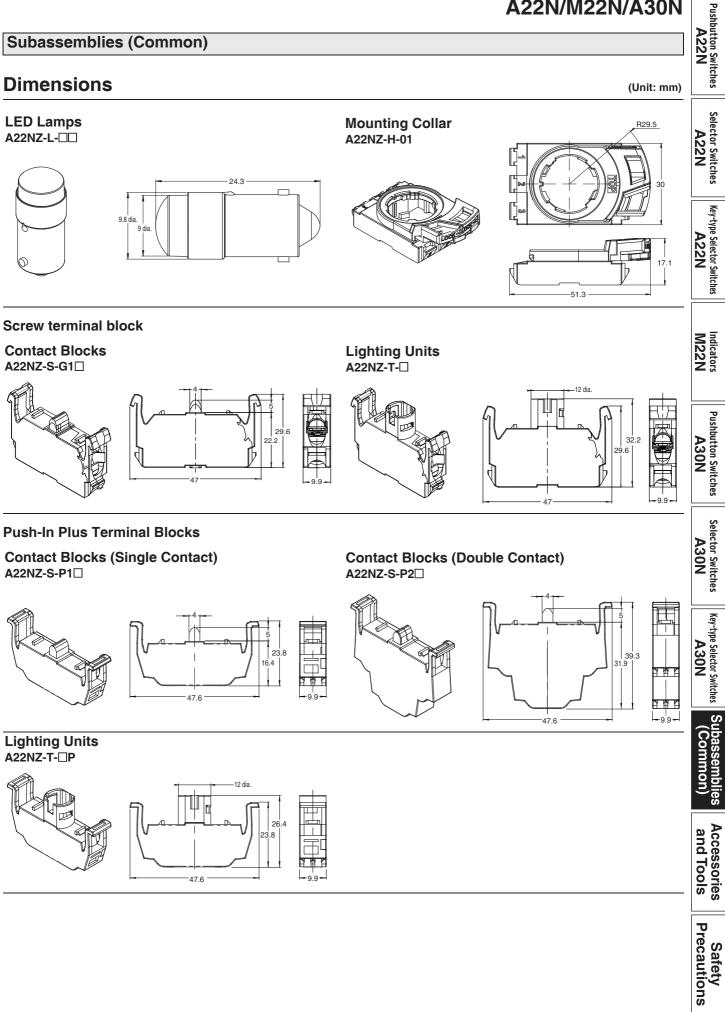
### **Lighting Units**

20	Appearance	Terminals Specifications	Rated voltage	Model
essories			6 VAC/DC	A22NZ-T-A
			12 VAC/DC	A22NZ-T-B
s Safety		Screw terminal block	24 VAC/DC	A22NZ-T-C
	A STATE OF STATE		100/110/120 VAC	A22NZ-T-D
			200/220/230/240 VAC	A22NZ-T-E
	•		6 VAC/DC	A22NZ-T-AP
5	The		12 VAC/DC	A22NZ-T-BP
ζ.		Push-In Plus terminal block	24 VAC/DC	A22NZ-T-CP
			100/110/120 VAC	A22NZ-T-DP
			200/220/230/240 VAC	A22NZ-T-EP

•	-
Accessories and Tools	]

Precautions

### Subassemblies (Common)



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Pushbutton Switches A22N

### Accessories and Tools

### **Ordering Information**

### Accessories and Tools (Order Separately)

elec	Accessories and Tools (Order Separately				')		
A2	Item	Appearance	Classi	fication	Model	Remarks	
Selector Switches	Protective Cover		-		A22NZ-A-303	A protector designed to prevent incorrect operation. Cannot be used together with other accessories. (Rub- ber seal included.) For exclusive use with panel cutouts of 22.3 and 25.5	
Key-type Selector Switches	Plastic Hole Plug *		Round		A22NZ-A-401	mm dia. Key-type selector switches cannot be used. Can be plugged into precut panel holes for future ex- pansion. Applicable panel thickness: 0.8 to 3.0 mm	
Indicators M22N	Metal Hole Plug *		Round		A22NZ-A-402	Can be plugged into precut panel holes for future ex- pansion. Applicable panel thickness: 0.8 to 6.0 mm (Rubber seal included.)	
	Lock Ring *		Ro	und	A22NZ-A-403	Used when a more secure lock is required to prevent rotation inside the Operation Unit. (Rubber seal included.)	
Pushbutton Switches A30N	Lock Ring		1		A22NZ-A-50501	Used when a more secure lock is required to prevent rotation of the Operation Unit.	
Selector Switches	Reinforcement Plate	0.010			A22NZ-A-C01	Used to reinforce Contact Blocks and Lighting Units, Refer to page 95 for mounting instructions.	
	Кеу	Neer Neer			A22NZ-K-01	Used with a key-type selector switch.	
Key-type Selector Switches	Control Box *		1 hole		A22NZ-A-B01Y		
Suba (C	0		Suitable Cable	7 to 9 dia.	A22Z-3500-1	Plastic connector used to extend a cable from the	
Subassemblies (Common)	Connector		Diameter (mm)	9 to 11 dia.	A22Z-3500-2	switch box. Refer to page 98 for details.	
nblies on)		(	For flat	models	A22Z-3600F	Used to prevent dust or water from entering the Opera- tion Unit.	
	Sealing Caps		For project	tion models	A22Z-3600T	Color: opaque Material: silicon For exclusive use with panel cutouts of 22.3 and 25.5	
Accessories and Tools		F	For full-guard models		A22Z-3600G	mm dia. Knob-type and key-type selector switches cannot be used.	
	Resin Attachment for 30 dia. *		Ro	und	A22Z-A30	Use when mounting to a panel with a 30-dia. hole. Refer to page 99 for details. Purchase and mount a separate Lock Ring when using an indicator.	
Safety Precautions	* For 22.3-mm panel ho	le diameter.	<u> </u>		1		

### **Accessories and Tools**

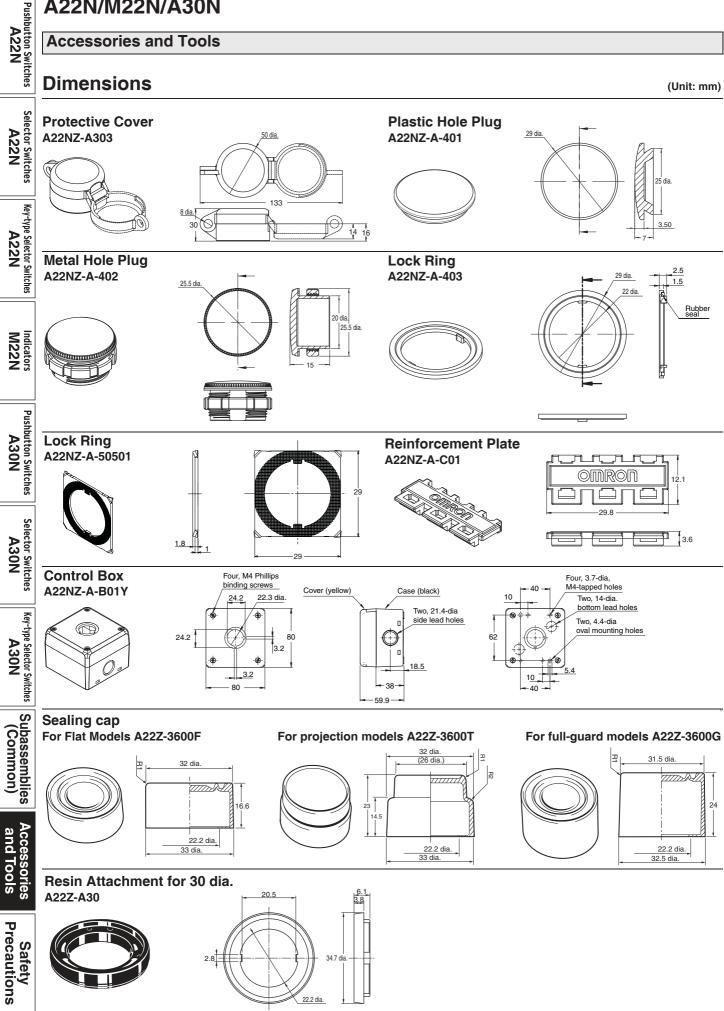
### **Ordering Information**

Item	Appearance	Classification	Model	Remarks	Sele	
Small Legend Plate Frame *		Black	A22NZ-A-50103	Legend Plate with no text on black background included.	Selector Switches A22N	
			A22Z-3443B	Black		
		Without text	A22Z-3443R	Red	(ey-t	
		WILLIOUT LEXT	A22Z-3443W	White	Key-type Selector Switches	
			A22Z-3443C	Transparent	e Selector S	
		0	A22Z-3443R-2	White text on red background	Z°s	
	~	STOP	A22Z-3443R-4	White text on red background	litche	
Small Legend Plates			A22Z-3443B-1		8	
(Standard Size) *		START	A22Z-3443B-3			
		ON	A22Z-3443B-5			
		OFF	A22Z-3443B-6	White text on block bookground	M <sub>2</sub>	
		UP	A22Z-3443B-7	White text on black background	Indicators M22N	
		DOWN A22Z-3443B-8		or		
		POWER ON	A22Z-3443B-9			
		OFF-ON	A22Z-3443B-10		P	
Large Legend Plate Frame *	<u>a</u>	Black	A22NZ-A-51103	Legend Plate with no text on black background included.	Pushbutton Switches A30N	
				A22Z-3453B	Black	che
Laws Laws of Distant *				A22Z-3453R	Red	s
Large Legend Plates *		Without text	A22Z-3453W	White	Š	
				A22Z-3453C	Transparent	elec
Tightening Wrench	O .		A22NZ-A-301	Used to tighten Mounting Nuts from the back of the panel.	Selector Switches	
LED Lamp Extractor	D		A22NZ-A-302	Made of rubber and used to easily remove and attach LED Lamps.	Key-type Sel	
Cap Tightening Wrench	le la		A22Z-3908	Used to replace the Caps on Flat, Projected, and Full- guard Pushbutton Switches.	Key-type Selector Switches	
* For 22.3-mm panel ho	ole diameter.				S	
					Subassemblies (Common)	

Accessories and Tools

Safety Precautions

### **Accessories and Tools**



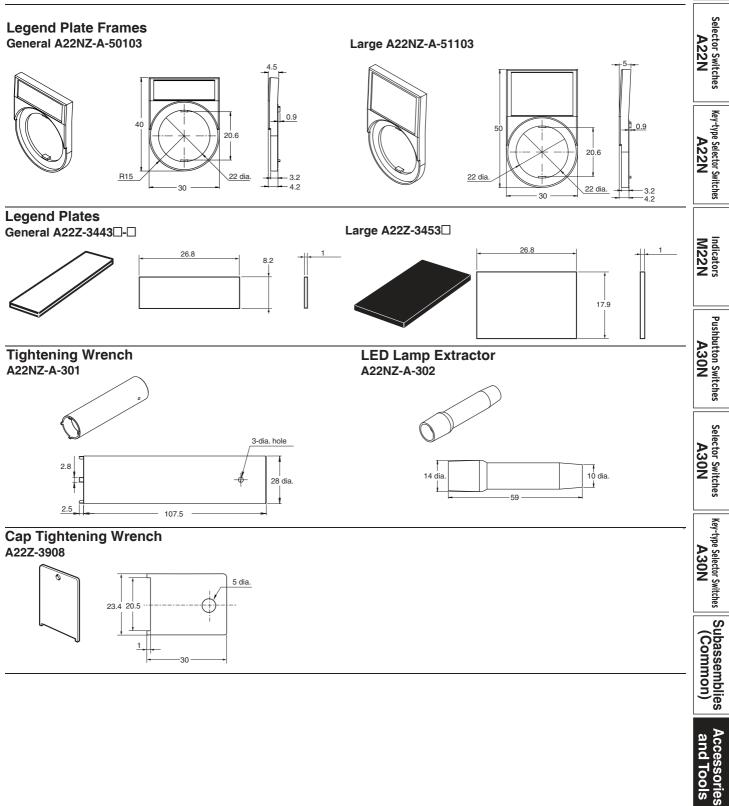
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### **Accessories and Tools**

### **Dimensions**



Pushbutton Switches A22N



Tools

Safety Precautions

### **Safety Precautions**

### Refer to Safety Precautions for All Pushbutton Switches/Indicators.

### Signal Word Definitions

Pushbutton Swit

M22N

Pushbutton Swit

tcnes

Selector Switches
A30N

A30N

Subassemblies (Common)

Accessories and Tools

	0			
Selector Switches A22N	Precautions for Safe Use	Supplementary comments on what to do or avoid doing, to use the product safely.		
	Precautions for Correct Use	Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction, or undesirable effects on product performance.		
Key-type				
type Selector S A22N	Precautions for Safe Use			
	For both the Screw terminal block type and the			

### for both the Screw terminal block type and the

### Push-In Plus terminal block type

- Do not perform wiring with power supplied to the Switch/Indicator. Do not touch the terminals or other charged parts while power is being supplied. Doing so may result in electric shock.
- · Do not disassemble or modify the Switch/Indicator under any circumstances.
- · Doing so may prevent the Switch/Indicator from functioning to its full capability. Do not drop the Switch/Indicator. Do not apply pressure that may deform or alter the Switch/Indicator.
- · The durability of the Switch varies considerably depending on the switching conditions. Always test the Switch/Indicator under actual working conditions before application and use the Switch/Indicator only for the number of switching operations allowed.
- · Do not allow the load voltage and current to exceed the rated value. This may damage or burn out the Switch/Indicator.
- Do not use the Switch/Indicator in locations where explosive or flammable gases or liquid may be present or scattered. The electric ark or the heat caused by switching contacts may cause a fire or explosion.
- · Do not use the Switch/Indicator in locations where toxic gases, such as H<sub>2</sub>S, SO<sub>2</sub>, NH<sub>3</sub>, HNO<sub>3</sub>, and Cl<sub>2</sub>, may be present, or in locations subject to high temperature or humidity. Doing so may damage the Switch/Indicator due to contact failure or corrosion.
- · Do not use the Switch/Indicator submersed in oil or water, or in locations continuously subject to splashes of oil or water. Doing so may result in oil or water entering and damaging the Switch/ Indicator.
- · Do not use or keep the Switch/Indicator under the following conditions:
  - · Subject to severe temperature changes.
  - · Subject to high humidity or condensation.
  - Subject to severe vibration or shock.
  - Where direct rays of the sun strike.
  - Where sea breeze may be present.
- · Make sure that a rubber washer is present between the Operation Unit and the panel. Otherwise, the specifications of the protective structure may not be satisfied.
- Do not apply excessive force to the Switch or wiring. A damaged or deformed contact block may cause contact failure.
- Use an appropriate wire and ferrule.
- Exercise caution to avoid wiring errors when connecting the terminals

• To prevent wire from smoking or igniting, use the wire indicated in the following table.

Model	Wire Type	Wire	Recommended Wires	Stripped length
A22N, M22N (Screw terminal block)	Solid wire/	1.25 to 2.5 mm <sup>2</sup> / AWG 16 to 14 Solid wire: 1.6 mm max.	8 mm	
A22N-P, M22N-P (Push-In Plus terminal block)	stranded wire	Copper	0.25 to 1.5 mm <sup>2</sup> / AWG 24 to 16	Ferrules used : 10 mm Ferrules not used : 8 mm

Use wiring crimp terminals and ferrule terminals of the specified size.

- For Push-In Plus terminal blocks, use only one wire per terminal. For screw terminal blocks, use no more than two wires of the same size and type with no more than two crimp terminals per terminal.
- After storing the product for a long time exceeding 1 year, perform, at a minimum, inspections of the operating characteristics, contact resistance, insulation resistance, and dielectric strength as well as evaluate the product under the working conditions.
- This Switch/Indicator is intended for indoor use only. Using the Switch/Indicator outdoors may result in failure.

### Push-In Plus Terminal Blocks

- · Do not wire anything to the release holes.
- · Do not tilt or twist a flat-blade screwdriver while it is inserted into a release hole on the terminal block. The terminal block may be damaged.
- Insert a flat-blade screwdriver into the release holes at an angle. The terminal block may be damaged if you insert the screwdriver straight in.
- · Do not allow the flat-blade screwdriver to fall out while it is inserted into a release hole.
- Do not bend a wire past its natural bending radius or pull on it with excessive force.
- Doing so may cause the wire disconnection.
- Do not insert more than one wire into each terminal insertion hole.
- · Do not mount A22N-P Push-In Plus terminal contact blocks on A22N screw terminal blocks. Doing so may result in unsatisfactory performance.

### **Precautions for Correct Use**

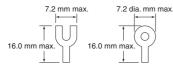
#### Mounting

• Do not tighten the Mounting Nut more than necessary using tools such as pointed-nose pliers. Doing so will damage the Mounting Nut. (The tightening torque of the Mounting Nut is 1.0 to 2.0 N·m.)

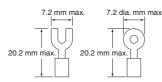
#### Wiring (Screw terminal block)

- Terminal screws must be M3.5 Phillips or slotted screws with a square washer.
- The terminal screw tightening torque is 1.0 to 1.3  $\ensuremath{\text{N}$\cdot\text{m}$}.$
- Solid wires, stranded wires, and crimp terminals can be connected to the Switch/Indicator.

Bare Crimp Terminals

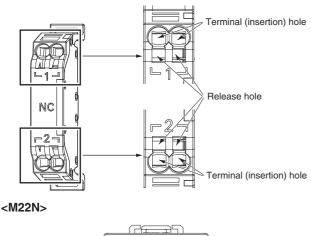


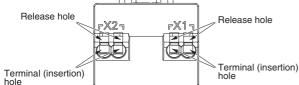
Crimp Terminals with Insulating Sheathes



### Wiring (Push-in Plus terminal block) 1. Connecting Wires to the Push-In Plus Terminal Block

### Part Names of the Terminal Block <A22N>

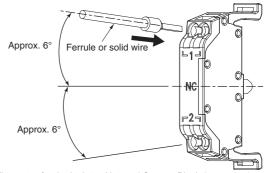




#### **Connecting Wires with Ferrules and Solid Wires**

- Insert the solid wire or ferrule straight into the terminal block until the end strikes the terminal block. The angle should be approximately 6°.
- If a wire is difficult to connect because it is too thin, use a flat-blade screwdriver in the same way as when connecting stranded wires.

#### <A22N>



The wiring for the Lighting Unit and Contact Block (2 contacts) are the same as for the Contact Block (1 contact) shown in the above illustration.



# Approx. 6°

Pushbutton Switches A30N

Indicators M22N

Selector Switches

Key-type Selector Switches

A22N

A22N

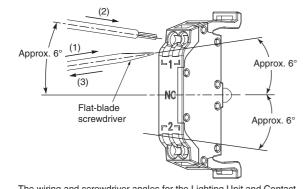
#### **Connecting Stranded Wires**

Use the following procedure to connect the wires to the terminal block. 1. Hold a flat-blade screwdriver at an angle and insert it into the release hole.

The angle should be approximately 6°. If the flat-blade screwdriver

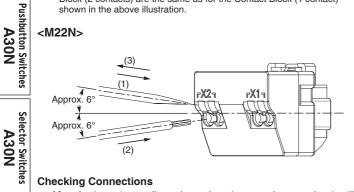
- is inserted correctly, you will feel the spring in the release hole. 2. With the flat-blade screwdriver still inserted into the release hole, insert the wire into the terminal hole until the end strikes the terminal block.
- 3. Remove the flat-blade screwdriver from the release hole.

#### <A22N>



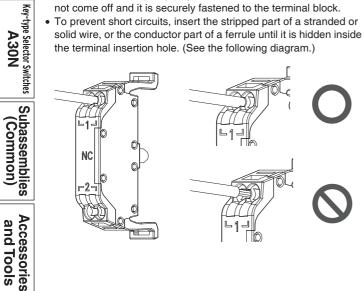
The wiring and screwdriver angles for the Lighting Unit and Contact Block (2 contacts) are the same as for the Contact Block (1 contact) shown in the above illustration.

#### <M22N>



#### **Checking Connections**

- · After the insertion, pull gently on the wire to make sure that it will not come off and it is securely fastened to the terminal block.
- · To prevent short circuits, insert the stripped part of a stranded or solid wire, or the conductor part of a ferrule until it is hidden inside the terminal insertion hole. (See the following diagram.)

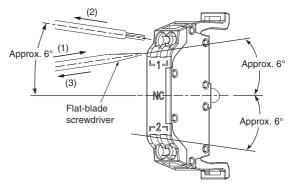


#### 2. Removing Wires from the Push-In Plus Terminal Block

Use the following procedure to remove wires from the terminal block. The same method is used to remove stranded wires, solid wires, and ferrules.

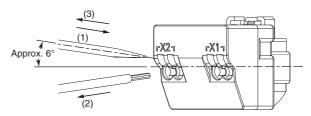
- 1. Hold a flat-blade screwdriver at an angle and insert it into the release hole. The angle should be approximately 6°.
- 2. With the flat-blade screwdriver still inserted into the release hole, remove the wire from the terminal insertion hole.
- 3. Remove the flat-blade screwdriver from the release hole.

#### <A22N>



The wiring and screwdriver angles for the Lighting Unit and Contact Block (2 contacts) are the same as for the Contact Block (1 contact) shown in the above illustration.

#### <M22N>



**Key-type Selector Switches** 

A22N

M22N

90

Precau

Selector Switches

Key-type Selector Switches

Indicators M22N

Pushbutton Switches
A30N

Selector Switches

Key-type Selector Switches A30N

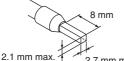
A22N

#### 3. Recommended Ferrules and Crimp Tools Recommended ferrules

	cable ire	Ferrule Conductor	Recommended ferrules		rrules
(mm²)	(AWG)	Length (mm)	Phoenix Contact product	Weidmuller product	Wago product
0.25	24	8	AI0.25-8	H0.25/12	FE-0.25-8N-YE
0.34	22	8	AI0.34-8	H0.34/12	FE-0.34-8N-TQ
0.5	20	8	AI0.5-8	H0.5/14	FE-0.5-8N-WH
0.75	18	8	AI0.75-8	H0.75/14	FE-0.75-8N-GY
1	18	8	AI1-8	H1.0/14	FE-1.0-8N-RD
1.5	16	8	AI1.5-8	H1.5/14	FE-1.5-8N-BK
Recommended Crimp Tools		CRIMPFOX6 CRIMPFOX6T-F CRIMPFOX10S	PZ6 roto	Variocrimp4	

**Note: 1.** Make sure that the outer diameter of the wire coating is smaller than the inner diameter of the insulation sleeve of the recommended ferrule.

2. Make sure that the ferrule processing dimensions conform to the following figures.



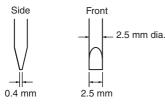
2.1 mm max. 1 2.7 mm max.

#### **Recommended Flat-Blade Screwdrivers**

Use a flat-blade screwdriver to connect and remove wires.

Use one of the following flat-blade screwdrivers.

The following table shows manufacturers and models as of 2015/Dec.



Model	Manufacturer
ESD0.40 x 2.5	Wera
SZS 0.4 x 2.5 SZF 0-0.4 x 2.5 *	Phoenix Contact
0.4 x 2.5 x 75 302	Wiha
AEF.2.5 x 75	Facom
210-719	Wago
SDI 0.4 x 2.5 x 75	Weidmuller

OMRON's exclusive purchase model XW4Z-00B is available to order as SZF 0-0.4 x 2.5 (manufactured by Phoenix Contact).

 After wiring the Switch/Indicator, provide a sufficient insulation distance.

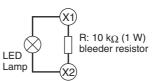
# The following information applies to both screw terminal blocks and Push-In Plus terminal blocks.

#### LED Lamps

- A current-limiting resistor is built in the LED lamp, so the installation of an external resistance is not required.
- Lighting malfunction of the LED lamp

A micro-current of approximately 0.1 mA or less is sufficient to turn on the LED lamps. Take a countermeasure like adding a resistor to prevent mis-lighting in parallel to the LED lamp. The micro-current varies with the machine (leak current or stray capacity between cables, etc.). Select resistance value and

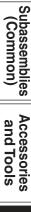
allowable power consumption that meet the actual current. (Example of lighting malfunction prevention circuit)



When using a 24-VAC/VDC lighted unit

### **Key-Type Selector Switches**

• Make sure to insert the key to the bottom of the cylinder before turning it.



### Application

### Mounting to the Panel

### Panel Hole Dimensions

A22N>
• Panel
• The re
P22N

Pushbutton Switches A22N

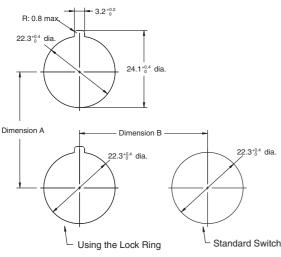
Panel hole dimensions are given below.

<ul> <li>The recommended panel thicknesses are given below.</li> </ul>		
P	anel hole dimension	Panel thickness
	22.3 dia.	0.8 to 5 mm
	25.5 dia.	0.8 to 6 mm

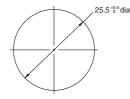
 If outer surface treatment such as coating is performed for the panel, the panel dimensions after outer surface treatment must meet the specified panel dimensions.

• The following figure gives pitch dimension A and pitch dimension B between the centers of the mounting holes.

### Panel Hole Dimensions for 22.3 Diameter



#### Panel Hole Dimensions for 25.5 Diameter



#### Dimension A

Wire type	Number of linked Contact Blocks	Number of wires per terminal	Minimum allowable pitch Dimension A (mm) or larger
Leads (stranded wire / solid wire)	1	1	50
Bare crimp terminals	1	1	50
Crimp terminals with insulating sheathes	1	1	60

Note: The minimum mounting pitch is based on three Contact Blocks in stage 1 with one wire attached to each terminal. If the Mounting Collar lock levers all face the same direction at the minimum mounting pitch, be sure to note the order the mounting collars are attached to the Operation Unit. If you attach two wires or link Units, determine the mounting pitch based on the dimensions diagrams and ease of operation and wiring.

#### **Dimension A When Using Accessory**

- Dimension A is 50 mm minimum when a Standard Legend Plate Frame is attached.
- Dimension A is 51 mm minimum when a Large Legend Plate Frame is attached.
- Dimension A is 75 mm minimum when a Protective Cover is attached.

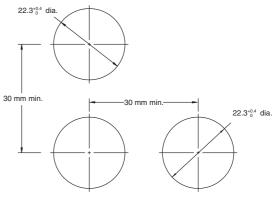
#### Dimension B

Operation Unit shape	Dimension B
Mushroom	40 mm min.
Other than the above	30 mm min.

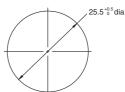
#### <M22N>

- Panel hole dimensions are given below.
- Acceptable panel thickness is between 0.8 and 6 mm.
- If outer surface treatment such as coating is performed for the panel, the panel dimensions after outer surface treatment must meet the specified panel dimensions.

#### Panel Hole Dimensions for 22.3 Diameter



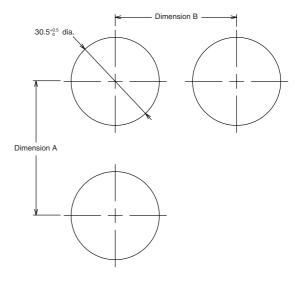
#### Panel Hole Dimensions for 25.5 Diameter



#### <A30N>

- Panel hole dimensions are given below.
- Acceptable panel thickness is between 0.8 and 7 mm.
- If outer surface treatment such as coating is performed for the panel, the panel dimensions after outer surface treatment must meet the specified panel dimensions.
- The following figure gives pitch dimension A and pitch dimension B between the centers of the mounting holes.

#### Panel Hole Dimensions



Key-type Selector Switches
A22N

M22N

Pushbutton Switches
A30N

Selector Switches A30N

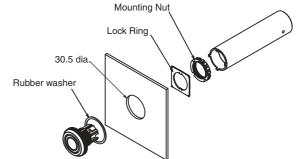
A30N (Common)

Accessories and Tools

Precaut

#### <A30N>

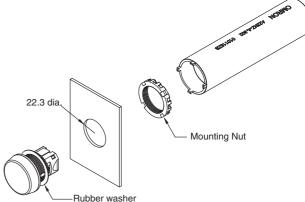
· Insert the Operation Unit from the front of the panel, insert the Lock Ring and Mounting Nut from the back of the panel, and tighten the Mounting Nut. Before tightening, check that the rubber washer is present between the Operation Unit and the panel.



#### Attaching the Switch Unit to the Indicator Unit <M22N>

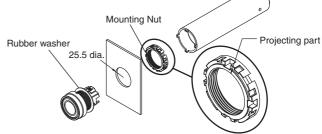
· Panel Hole of 22.3-mm Diameter

Insert the Indicator Unit from the front of the panel, insert the Mounting Nut from the back of the panel, and tighten the Mounting Nut. Before tightening, check that the rubber washer is present between the Indicator Unit and the panel.



Panel Hole of 25.5-mm Diameter

Tighten the Mounting Nut while confirming that the projecting part (see following figure) on the Mounting Nut is aligned with mounting hole. Before tightening, verify that the rubber washer is present between the Operation Unit and the panel.





# A30N

**Pushbutton Switches** 

A30N

Pushbutton Switches A22N

Selector Switches

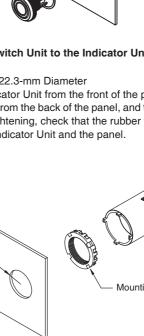
Key-type Selector Switches

A22N

Indicators M22N

A22N

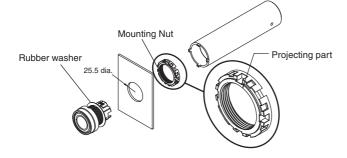
Selector Switches





· Panel Hole of 25.5-mm Diameter

Do not use the Lock Ring, and tighten the Mounting Nut while confirming that the projecting part (see following figure) on the Mounting Nut is aligned with mounting hole. Before tightening, check that the rubber washer is present between the Operation Unit and the panel.



· Align the Lock Ring with the slot on the case and insert it so that the edge is flush with the panel.

Wire type	Number of linked Contact Blocks	Number of wires per terminal	Minimum allowable pitch Dimension A (mm) or larger
Leads (stranded wire / solid wire)	1	1	50
Bare crimp terminals	1	1	50
Crimp terminals with insulating sheathes	1	1	60

Note: The minimum mounting pitch is based on three Contact Blocks in stage 1 with one wire attached to each terminal. If the Mounting Collar lock levers all face the same direction at the minimum mounting pitch, be sure to note the order the mounting collars are attached to the Operation Unit. If you attach two wires or link Units, determine the mounting pitch based on the dimensions diagrams and ease of operation and wiring.

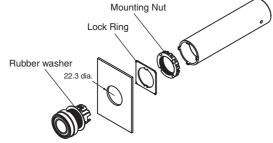
#### **Dimension B**

Operation Unit shape	Dimension B
Mushroom	40 mm min.
Other than the above	30 mm min.

#### Mounting the Operation Unit

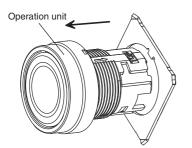
#### <A22N>

- · Panel Hole of 22.3-mm Diameter
- Insert the Operation Unit from the front of the panel, insert the Lock Ring and Mounting Nut from the back of the panel, and tighten the Mounting Nut. Before tightening, check that the rubber washer is present between the Operation Unit and the panel.



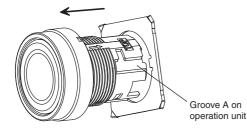
### Mounting the Lock Ring <A22N/A30N>

 Align the grooves on the Operation Unit with the protruding parts of the Lock Ring and mount.

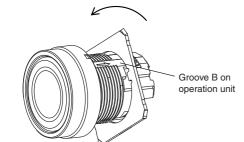


 When experiencing difficulties when mounting a Lock Ring, use the following procedure.

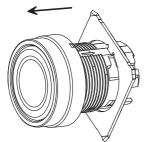
1. Insert the Lock Ring into groove A on the Operation Unit.



2. When the Lock Ring is in the position shown in the figure below, rotate it to insert the protruding part of the Lock Ring into groove B on the Operation Unit.

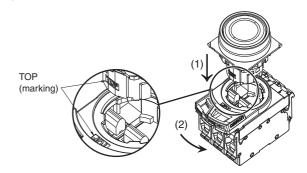


3. When the Lock Ring is in the position shown in the figure below, move it in the direction indicated by the arrow.



### Mounting the Contact Block to the Operation Unit <A22N/A30N>

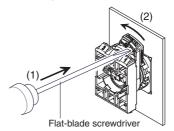
 Insert the Operation Unit into the Mounting Collar, aligning the TOP mark inscribed on the Operation Unit with the lever on the Mounting Collar, and then turn the lever in the direction indicated by the arrow in the following figure all of the way until it clicks into place.

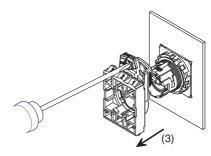


#### **Removing the Mounting Collar**

#### <A22N/A30N>

• Press the lock lever in from the back side to release the lock, and then hook the Mounting Collar with a screwdriver, move it in the direction indicated at (2), and remove it. Turn the lever all of the way until it clicks into place.





Indicators M22N

Pushbutton Switches
A30N

Selector Switches
A30N

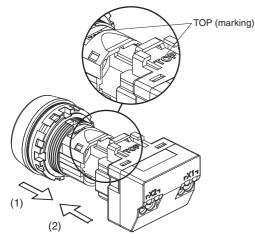
Key-type Selector Switches **A30N** 

Subassemblies (Common)

Accessories and Tools

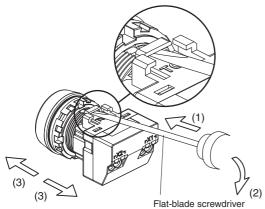
### Attaching the Switch Unit to the Indicator Unit <M22N>

 Align the "TOP" marks on the Indicator Unit and Switch Unit and insert the Indicator Unit into the Switch Unit. Insert it all the way until it clicks into place.



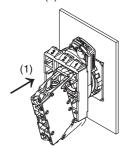
#### Removing the Switch Unit <M22N>

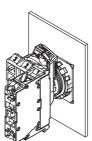
• Insert a screwdriver into the tab on the Switch Unit. Move the screwdriver in direction (2) to remove the Switch Unit.



### Contact Block and Lighting Unit Attaching the Contact Block and Lighting Unit

• Catch the projection on the opposite side of the Mounting Collar from the lever side and press the Contact Block in the direction indicated at (1).

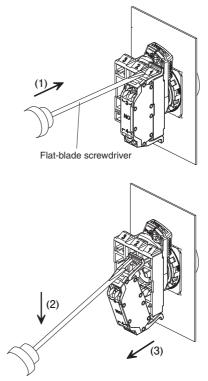




When attached

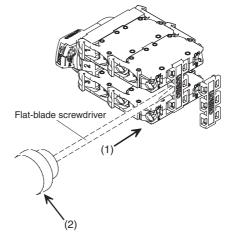
#### **Removing the Contact Block**

• Insert a screwdriver into the gap between the Mounting Collar and Contact Block and press it inward in the direction shown at (2).



### Attaching the Reinforcement Plate (Screw terminal block type)

• To link Contact Blocks together, attach a Reinforcement Plate in the direction shown in the following figure. To remove the Plate, insert a screwdriver in the direction indicated at (1) and rotate it in the direction indicated at (2).



Pushbutton Switches A22N

### Engraving

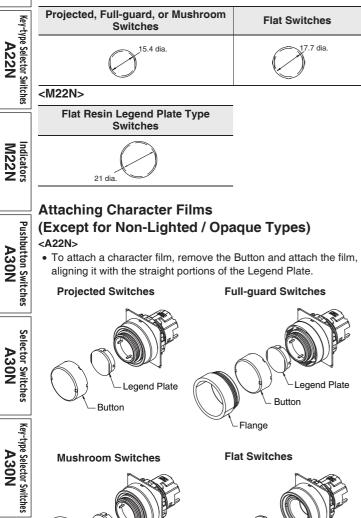
Pushbutton Switches A22N

Selector Switches A22N

### (Except for Non-Lighted / Opaque Types)

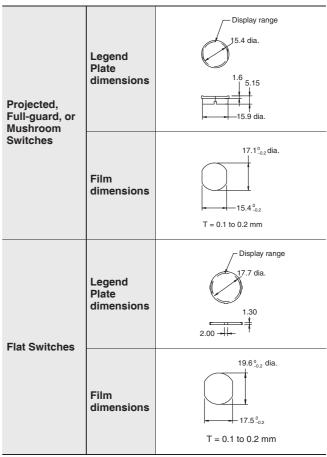
- Engrave legends on the Legend Plates.
   Do so with the straight part of the Legend Plate positioned on the right and left.
- The characters must be engraved no deeper than 0.5 mm. Use an alcohol-based paint, such as a melamine, phthalic acid, or acrylic resin based paint.

#### <A22N>



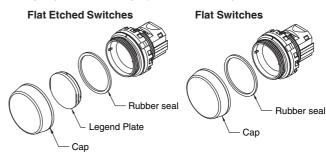
Legend Plate

Legend Plate Button • Prepare films of the following sizes depending on the type of Legend Plate.

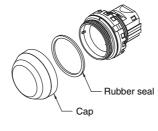


<M22N>

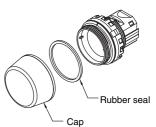
• To attach a character film, remove the Button and attach the film, aligning it with the straight portions of the Legend Plate.



Semi-spherical Switches

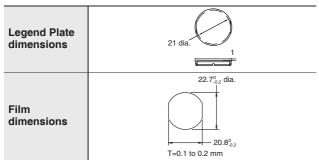


**Projected Switches** 



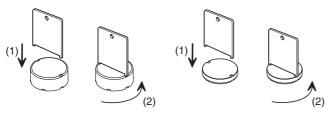
Subassemblies (Common)

Accessories and Tools · Film processing dimensions should be as per the indications below.



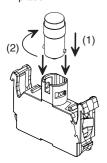
### Removing and Tightening the Cap

For all Switches except for Mushroom Switches, use the A22Z-3908 Cap Tightening Tool to loosen the cap. When you tighten the cap, make sure that the Legend Plate is in the correct position and then turn the cap in the direction opposite of the direction shown in the following figure. Tighten it to a torque of 0.5 to 1.0 N·m so that it will not become loose.



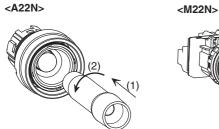
### Attaching the LED Lamp to the Lighting Unit

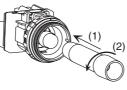
· Insert the protrusions on the LED Lamp into the guides on the Lighting Unit and then turn the LED Lamp in direction (2) to lock it in place.



### Attaching and Replacing LED Lamps Removing the LED Lamp from the Panel Surface

· Insert the LED Lamp Extractor as shown in the following figure and then rotate the Extractor in the direction shown at (2) while pressing it inward.



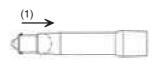


#### Attaching the LED Lamp from the Panel Surface

. Insert the LED Lamp into the LED Lamp Extractor as shown in the following figure. Align the projections on the LED Lamp with the LED Lamp insertion guides, insert the LED Lamp, and turn it in the direction indicted at (2).

<A22N>

<M22N>





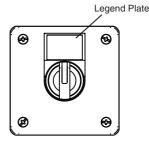
LED Lamp insertion guides

(2)(1)



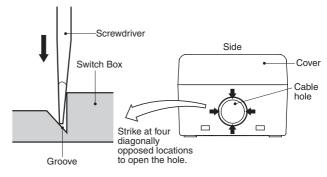
You can attach a Legend Plate Frame.

Attach it in the direction shown in the following figure. Mount the Switch in the same way as for a standard panel. The tightening torque of the Box screws is 1.4 to 2.0 N·m.



#### **Creating a Cable Hole**

To open a cable hole, leave the cover attached, place the tip of a screwdriver in the grooves at four locations around the cable hole, and strike the screwdriver with a hammer to open the hole.





Pushbutton Switches A22N

Pushbutton Switches A22N

Selector Switches A22N

A22N

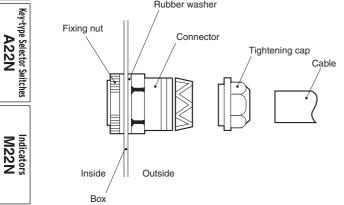
Pushbutton Switches
A30N

Selector Switches
A30N

### Securing the Connector Cable

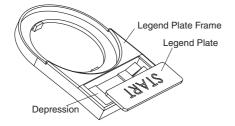
- 1. Insert the connector into the cable port hole in the Box and secure with the fixing nut inside the box.
- Open a hole in the thin rubber section of the rubber ring. 2
- 3. Pass the tightening cap through the cable, insert the cable into the connector, and tighten the hexagonal nut to secure the cable.

Cable diameter (mm)	Connector	
7 to 9 dia.	A22Z-3500-1	
9 to 11 dia.	A22Z-3500-2	
Bubber washer		

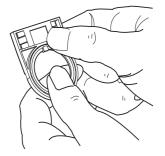


### Attaching and Removing Legend Plates

- Press the Legend Plate into the depression in the Legend Plate Frame. The Legend Plate Frame can be separate or it can be mounted on the panel when you attach the Legend Plate.
- The direction of the characters will depend on the mounting direction of the Operation Unit if the Switch is a Selector Switch or Key Selector Switch.

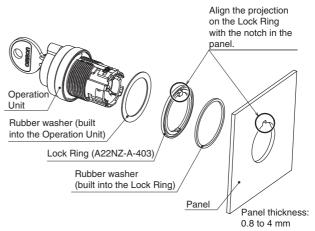


- · You can easily remove the Legend Plate by pressing it forwards from the back of the Legend Plate Frame.
- The acrylic plastic Legend Plate is easily damaged by shock. Handle it with care.

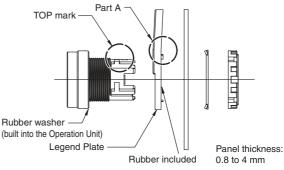


### Attaching the Lock Ring

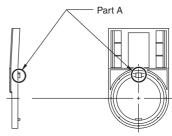
Attach the Lock Ring as shown in the following figure. To ensure water resistance, attach the rubber washer in the specified location.



• Align the TOP mark on the Operation Unit, part A on the Legend Plate, and the notch in the panel, and insert the Operation Unit.

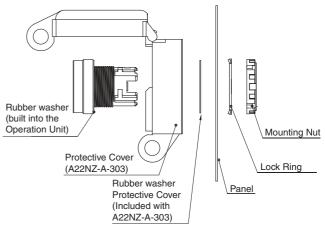


 If there is no notch in the panel, remove part A from the Legend Plate with pliers.



### **Attaching the Protective Cover**

Attach the Protective Cover (A22NZ-A-303) to a panel that is 0.8 to 1.0 mm thick. To ensure water resistance, attach the rubber washer in the specified location.



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Accessories and Tools

### Attaching the Sealing Cap

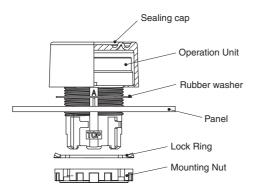
#### <A22N/M22N>

Panel acceptable thickness is given below.

Panel hole dimension	Panel thickness
22.3 dia.	0.8 to 4.2 mm
25.5 dia.	0.8 to 5.2 mm

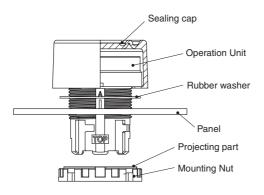
#### Panel Hole of 22.3-mm Diameter

Attach the Sealing cap as shown in the following figure. To ensure water resistance, attach the rubber washer in the specified location.



#### Panel Hole of 25.5-mm Diameter

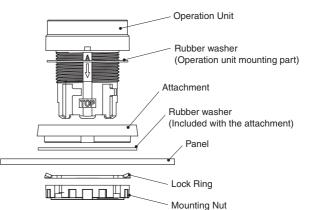
Attach the Sealing cap as shown in the following figure. Do not use the Lock Ring, and tighten the Mounting Nut while confirming that the projecting part on the Mounting Nut is aligned with mounting hole. To ensure water resistance, attach the rubber washer in the specified location.



## Mounting the 30-dia. Resin Attachments

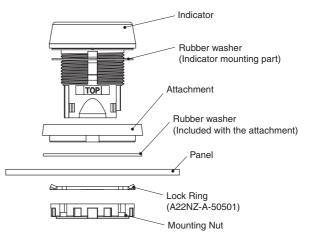
#### <A22N>

- Acceptable panel thickness is between 1.8 and 2.2 mm.
- Mount the attachment as shown in the following figure.To ensure water resistance, attach the rubber washer in the
- To ensure water resistance, attach the rubber washer in the specified location.



#### <M22N>

- Acceptable panel thickness is between 1.8 and 2.2 mm.
- Mount the attachment as shown in the following figure.
- Purchase and mount a separate lock ring (A22NZ-A-50501).
- To ensure water resistance, attach the rubber washer in the specified location.



Pushbutton Switches A22N

Selector Switches

A22N

Accessories and Tools

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