

## Pushbuttons, Selector Switches and Pilot Lights



NEW Enhanced brightness with low current consumption



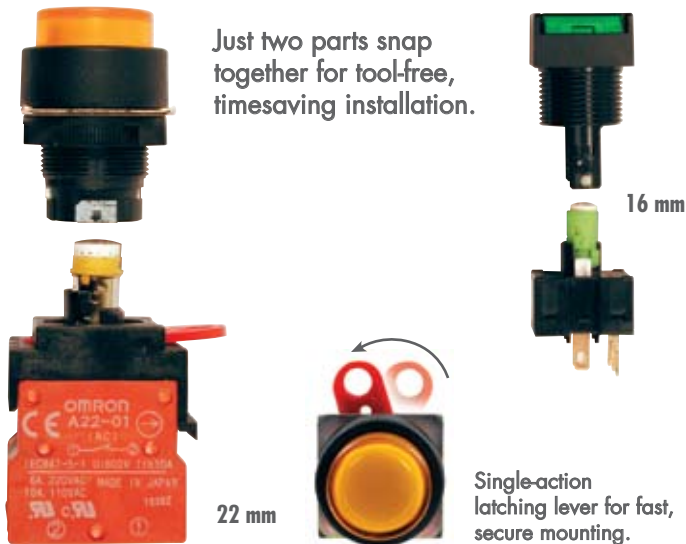
Build-to-Order Guides help you select the right model.

- » Wide range of styles in 16 mm and 22 mm
- » Over 6,000 models available
- » Short delivery time
- » Assembled to your order in U.S.A.

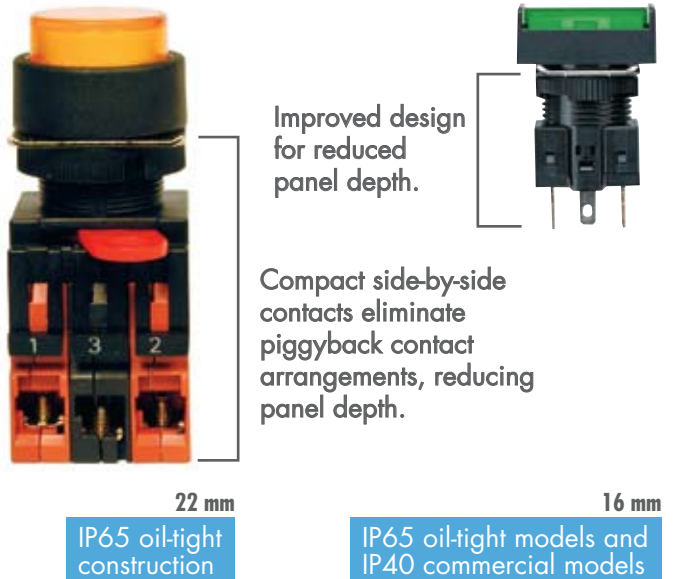
# Why Choose Omron Industrial Switches?

Omron offers build-to-order Pushbuttons, Selector Switches and Pilot Lights to shorten delivery time and increase the availability of the exact parts you want. They are assembled at Omron's manufacturing facility in St. Charles, IL, so no matter where you are located, parts reach you in a just few days or overnight as needed. Use this guide to choose from over 6,000 part combinations as well as legend plates and accessories. Choose Omron for your next control panel project.

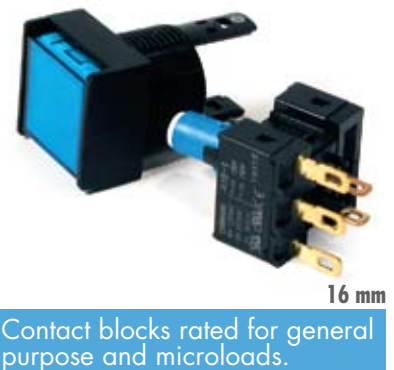
## Reduce Installation Time



## Reduce Panel Depth



## Other Features



Super-bright LED illumination offers 60 times longer life than incandescent lamps, reducing maintenance.



All 16 mm and 22 mm models are UL and CE approved.

# Ultra-bright, Energy Saving LEDs



Everyone wants to do their part for the environment and reducing power consumption can make a small but notable difference. Omron redesigned lighted pushbuttons, selector switches and indicators to take advantage of ultra-bright, energy-saving LEDs. Available now on 16 mm models, the new LEDs will be available soon on 22 mm models.

## Bright, Evenly Lit Colors

Design your control panels with Omron's ultra-bright switches for appealing aesthetics and rich color evenly distributed across the lighted surface. Compared to Omron's previous LED, switches using the new lamp are fully 20% brighter for improved visibility for operators.

## How Big is the Energy Savings?

Depending on the lamp voltage and color, Omron has reduced the current consumption by 20% to 73%! The milliamps saved add up to a fair energy savings over the years of operation and increased LED lifetime.

| Lamp voltage | LED color                  | Before | After | Reduction |
|--------------|----------------------------|--------|-------|-----------|
| 5 VDC        | Red                        | 15 mA  | 8 mA  | 47%       |
|              | Yellow, White, Green, Blue | 30 mA  | 8 mA  | 73%       |
| 12 VDC       | All colors                 | 15 mA  | 8 mA  | 47%       |
| 24 VDC       | All colors                 | 10 mA  | 8 mA  | 20%       |

## Eliminate Wiring Errors

The 12 V and 24 V switches now accept both AC and DC voltages. Non-polarized terminals are now provided to eliminate polarity errors during wiring. This flexibility also helps reduce inventory costs for panel builders and for customers who buy their machines.



# Locally Built to Your Order

## Fast Delivery From Local Stock

Omron builds the exact switches you need, when you need them, from a large local stock of components. Omron's manufacturing facility in St. Charles, Illinois makes 100% quality tested switches on a modern production line that meets both ISO-9000 and ISO-14000 standards.

Contact your Omron sales representative today for build-to-order switches and custom-built control panels.

## Do You Need Custom-Built Panels?

Our manufacturing facility is a UL-certified panel builder ready to help you design and build control panels using Omron pushbutton switches, pilot lights, power supplies and other controls. We even incorporate controls from your preferred suppliers to maintain your standardized usage. Each panel is fully tested, documented then delivered ready to install on your machine.

## Do You Need More Info?

Visit **omron247.com** and enter "pushbuttons," "switches," or "pilot lights" in our search center to learn more. You can also view part numbers of our most popular pushbutton types with complete part number description and pricing.

The screenshot displays the Omron Industrial Automation website for the United States, Mexico, and Latin America. The main navigation bar includes links for Home, About Us, Products, Services, and Contact Us. The central content area features a grid of product categories: Automation, Motion & Drives, Servo, Safety, and Control. Below this, a detailed product listing for pushbuttons is shown, including a table with columns for Part Number, Price, Qty, Description, Shape, Operator Color, Operating Function, Contact Form, and Light Source. The table lists several models, such as A161-ADN-2, A162-ADN-2, A163-ADN-2, A164-ADN-2, A165-ADN-2, A166-ADN-2, A167-ADN-2, and A168-ADN-2, each with a corresponding price and description. The right sidebar contains links to the Order Center, Search Center, CAD Drawings, Application Solutions, Software Downloads, Cross Reference, Find an Omron Distributor, and Find an Omron Service Center. The bottom of the page includes a footer with the Omron logo, copyright information, and a list of regional offices.

| Part Number | Price   | Qty | Description                                                   | Shape       | Operator Color | Operating Function | Contact Form | Light Source |
|-------------|---------|-----|---------------------------------------------------------------|-------------|----------------|--------------------|--------------|--------------|
| A161-ADN-2  | \$14.11 | 1   | Non-Illuminated 16 mm Pushbutton Switch, SPST, Sub-D Terminal | Square      | Blue           | Momentary          | DPST         | N/A          |
| A162-ADN-2  | \$14.11 | 1   | Non-Illuminated 16 mm Pushbutton Switch, SPST, Sub-D Terminal | Square      | Black          | Momentary          | DPST         | N/A          |
| A163-ADN-2  | \$14.11 | 1   | Non-Illuminated 16 mm Pushbutton Switch, SPST, Sub-D Terminal | Square      | Red            | Momentary          | DPST         | N/A          |
| A164-ADN-2  | \$14.11 | 1   | Non-Illuminated 16 mm Pushbutton Switch, SPST, Sub-D Terminal | Square      | Yellow         | Momentary          | DPST         | N/A          |
| A165-ADN-2  | \$14.11 | 1   | Non-Illuminated 16 mm Pushbutton Switch, SPST, Sub-D Terminal | Rectangular | Green          | Momentary          | DPST         | N/A          |
| A166-ADN-2  | \$14.11 | 1   | Non-Illuminated 16 mm Pushbutton Switch, SPST, Sub-D Terminal | Rectangular | Red            | Momentary          | DPST         | N/A          |

# A22 Series: Overview

Reliable oil-tight pushbutton switches offer a wide range of shapes and colors. A locking lever ensures easy mounting and removal of the switch unit. To increase wiring efficiency and decrease mounting depth, switches feature a three-row mounting of switch contact blocks.



- Finger protection mechanism on switch unit provided as a standard feature
- Mounted using either open-type (fork-type) or closed-type (round-type) crimp terminals.
- Use 25-dia. ring to install in 25-dia. panel cutouts.
- Wide range of shapes and colors.
- IP65 oil resistant
- EN60947-5-1, IEN60947-5-1

## Available Styles

Pushbutton Switch, Non-Lighted  
 Pushbutton Switch, Lighted  
 Emergency Stop Switch, Non-Lighted  
 Emergency Stop Switch, Lighted  
 Selector Switches, Non-Lighted  
 Selector Switches, Lighted  
 Keyed Selector Switches  
 Pilot Light

| Series | Page |
|--------|------|
| A22    | 5    |
| A22L   | 5    |
| A22E   | 6    |
| A22EL  | 6    |
| A22S   | 7    |
| A22W   | 7    |
| A22K   | 8    |
| M22    | 9    |



Automation...simple...powerful.

# A22 Non-Lighted Pushbutton Switches, 22 mm dia., A22L Lighted Pushbutton Switches, 22 mm dia.

## Non-Lighted



Round Flat  
**A22-F**



Round  
Projection  
**A22-T**



Round Full  
Guard  
**A22-G**



Round Half  
Guard **A22-H**

## Non-Lighted



Square  
Projection  
**A22-C**



Square  
Full Guard  
**A22-D**



Round Mushroom  
Head 30 mm dia.  
**A22-S**



Round Mushroom  
Head 40 mm dia.  
**A22-M**

## Lighted



Lighted Round  
Projection  
**A22L-T**



Lighted Round  
Full Guard  
**A22L-G**



Lighted Round  
Half Guard  
**A22L-H**



Lighted Square  
Projection  
**A22L-C**



Lighted Square  
Full Guard  
**A22L-D**

## A22 1 2 3 4 5 6

### 1 Lighted/Non-lighted

| Code      | Description |
|-----------|-------------|
| No symbol | Non-lighted |
| L         | Lighted     |

### 2 Flange Shape

| Non-lighted |                               |
|-------------|-------------------------------|
| Code        | Description                   |
| F           | Round/Flat                    |
| T           | Round/Projection              |
| G           | Round/Full-guard              |
| H           | Round/Half-guard              |
| C           | Square/Projection             |
| D           | Square/Full-guard             |
| S           | Round/Mushroom (30-dia. head) |
| M           | Round/Mushroom (40-dia. head) |
| Lighted     |                               |
| T           | Round/Projection              |
| G           | Round/Full-guard              |
| H           | Round/Half-guard              |
| C           | Square/Projection             |
| D           | Square/Full-guard             |

### 3 Illumination Color

| Code | Description                       |
|------|-----------------------------------|
| R    | Red                               |
| G    | Green                             |
| Y    | Yellow                            |
| W    | White                             |
| A    | Blue                              |
| B    | Black (for non-lighted type only) |

### 4 Light Source

| Without Voltage Reduction Unit |                   |                      |
|--------------------------------|-------------------|----------------------|
| Code                           | Operating Voltage |                      |
| No symbol                      | Non-lighted       |                      |
| 6D                             | LED               | 6 VDC                |
| 6A                             |                   | 6 VAC                |
| 12A                            |                   | 12 VAC/VDC           |
| 24A                            |                   | 24 VAC/VDC           |
| With Voltage Reduction Unit    |                   |                      |
| T1                             | LED               | 110 VAC (See note 1) |
| T2                             |                   | 220 VAC (See note 2) |

### 5 Contacts

| Code | Description     |
|------|-----------------|
| 10   | SPSTNO          |
| 01   | SPSTNC          |
| 11   | SPSTNO + SPSTNC |
| 20   | SPSTNO + SPSTNO |
| 02   | SPSTNC + SPSTNC |

**Note: 1.** Add a "-1" suffix to part number when ordering two contact styles consisting of one contact block.

**2.** Double contact block types add 18mm in depth and 10 mm in width from single contact types.

### 6 Switch Action

| Code | Description |
|------|-------------|
| M    | Momentary   |
| A    | Alternate   |

**Note: 1.** Operational voltage: 95 to 115 VAC  
**2.** Operational voltage: 190 to 230 VAC  
**3.** The LED lamp (24 VAC/VDC) can be lit by directly applying 100 VAC/VDC (200 VAC/VDC) to the lamp terminal.  
**4.** LED incorporates the 24 VAC/VDC type to the Voltage Reduction Unit models.

# A22E Series: Emergency Stop Switches, 22 mm dia.

Use these e-stop switches as part of a Safety Category 4 system.

- Direct opening mechanism opens the circuit when the contact welds.
- Safety lock mechanism prevents operating errors.
- Easily mount and remove Switch Blocks using a lever.
- Mount three Switch Units in series to improve wiring efficiency.
- Finger protection mechanism on Switch Unit provided as a standard feature.
- Install using either round or forked crimp terminals.
- Oil-resistant to IP65



## Push-pull



Round Medium  
40 mm dia.  
Push-pull  
**A22E-MP**



Round Large  
60 mm dia.  
Push-pull  
**A22E-LP**

## Push-lock turn-reset



Round Large  
30 mm dia.  
Push-lock turn-reset  
**A22E-S**



Round Medium  
40 mm dia.  
Push-lock turn-reset  
**A22E-M**



Round Large  
60 mm dia.  
Push-lock turn-reset  
**A22E-L**



Lighted Round  
Medium 40 mm dia.  
Push-lock turn-reset  
**A22EL-M**

## A22E 1 2 3 4 5

### 1 Lighted/Non-lighted

| Code | Description         |
|------|---------------------|
| None | Non-lighted         |
| L    | Lighted (See note.) |

**Note:** Lighted Emergency Stop Switches are available only for the medium (M) push-lock turn-reset models.

### 2 Head Size

| Code | Size              | Description          |
|------|-------------------|----------------------|
| MP   | Medium<br>40 dia. | Push-pull            |
| LP   | Large<br>60 dia.  |                      |
| S    | Small<br>30 dia.  | Push-lock turn-reset |
| M    | Medium<br>40 dia. |                      |
| L    | Large<br>60 dia.  |                      |
| SK   | Small<br>30 dia.  | Push-lock key reset  |
| MK   | Medium<br>40 dia. |                      |

### 3 Light Source

| Without Voltage Reduction Unit |                   |            |
|--------------------------------|-------------------|------------|
| Code                           | Operating Voltage |            |
| None                           | Non-lighted       |            |
| 6D                             | LED               | 6 VDC      |
| 6A                             |                   | 6 VAC      |
| 12A                            |                   | 12 VAC/VDC |
| 24A                            |                   | 24 VAC/VDC |
| With Voltage Reduction Unit    |                   |            |
| None                           | Non-lighted       |            |
| T1                             | LED               | 110 VAC    |
| T2                             |                   | 220 VAC    |

**Note: 1.** The LED lamp (24 VAC/VDC) can be lit by directly applying 110 VAC/VDC (220 VAC/VDC) to the lamp terminal. LED incorporates the 24 VAC/VDC models.

**2.** Equipped with 24 VAC/DC LED.

### 4 Contacts

| Code | Description     |
|------|-----------------|
| 01   | SPSTNC          |
| 11   | SPSTNO + SPSTNC |
| 02   | DPSTNC          |

**Note: 1.** Add a "-1" suffix to part number when ordering two contact styles consisting of one contact block.

**2.** Double contact block types add 18mm in depth and 10 mm in width from single contact types.

### 5 Configuration

| Code | Configuration                      |
|------|------------------------------------|
| None | Switch only                        |
| B    | Switch with Integrated Control Box |

# A22S Selector Switches, Non-Lighted, 22 mm dia.

# A22W Selector Switches, Lighted, 22 mm dia.

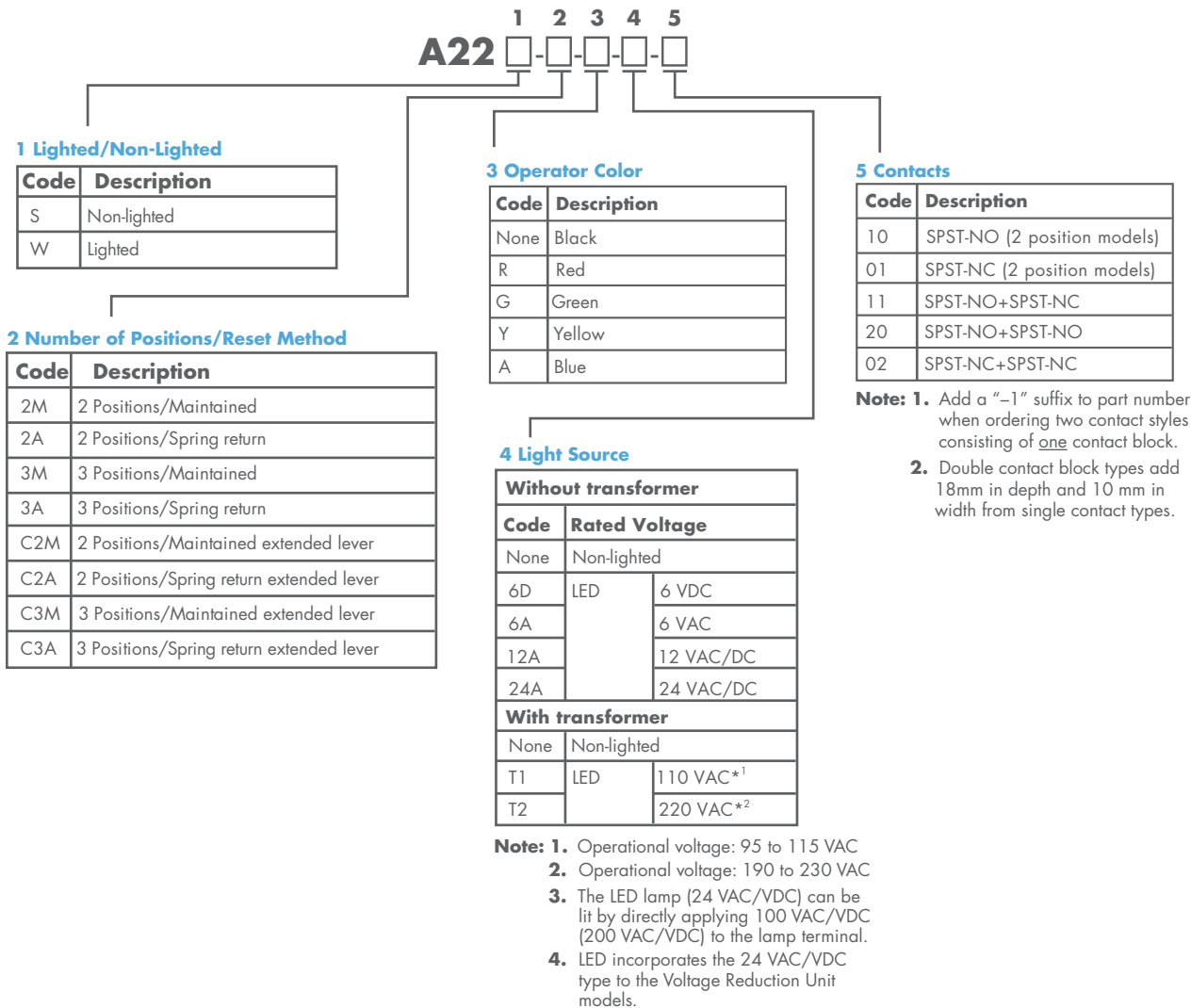
Knob style selector switches provide users a reliable way to start or choose between machine operations. Two- and three-position switches with manual or automatic reset are available in non-lighted and lighted models. Use optional legend plates to identify the selections.



Non-lighted  
Selector Switch  
**A22S**



Lighted  
Selector Switch  
**A22W**

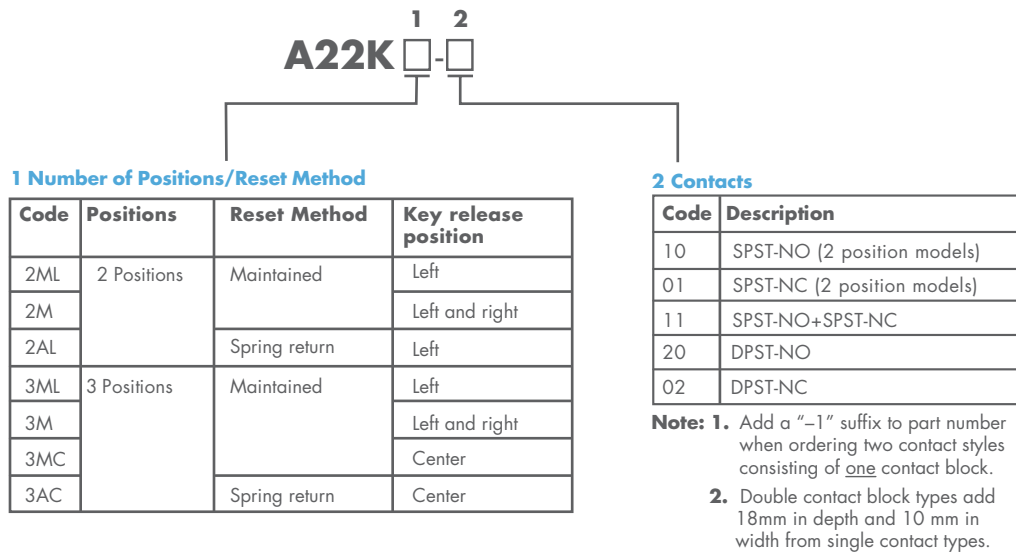


## A22K Series: Keyed Selector Switches, 22 mm dia.

Design in extra security with keyed selector switches. Only authorized operators are allowed to change settings using the key.



Keyed selector switch  
**A22K**



### Contact Configurations for Selector Switches A22K, A22S, A22W Models

| 2 Position Type |         |         |                 |         |         |
|-----------------|---------|---------|-----------------|---------|---------|
| Knob position   | SPST-NO | SPST-NC | SPST-NO+SPST-NC | DPST-NO | DPST-NC |
|                 |         |         |                 |         |         |
|                 |         |         |                 |         |         |

| 3 Position Type |                 |         |         |
|-----------------|-----------------|---------|---------|
| Knob position   | SPST-NO+SPST-NC | DPST-NO | DPST-NC |
|                 |                 |         |         |
|                 |                 |         |         |
|                 |                 |         |         |

## M22 Series: Pilot Lights, 22 mm dia.

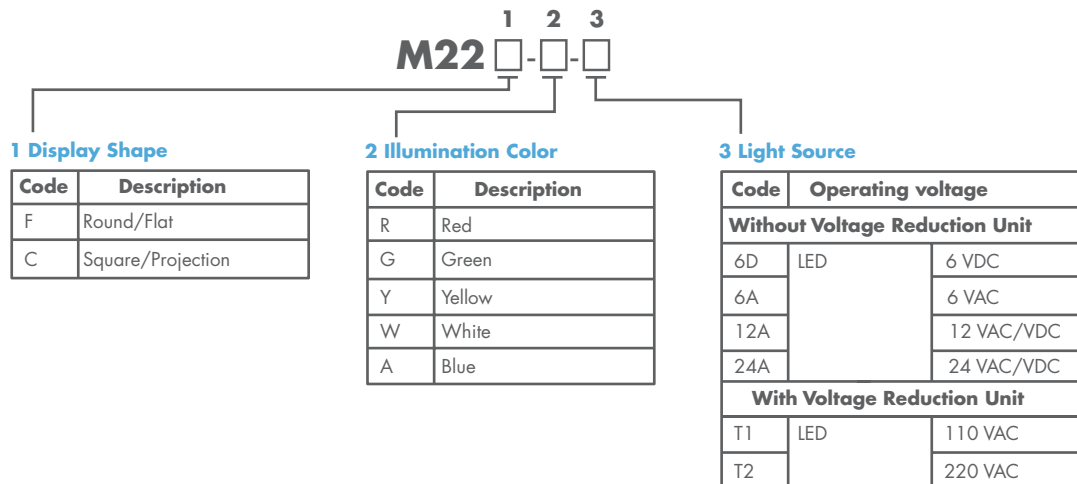
Pilot lights indicate status of machinery and processes on control panels. Bright LED light source is easy to read under most lighting conditions.



Square projection  
pilot light  
**M22-CR**



Round flat  
pilot light  
**M22-FR**



**Note:** The LED lamp (24 VAC/VDC) can be lit by directly applying 110 VAC/VDC (220 VAC/VDC) to the lamp terminal. LED incorporates the 24 VAC/VDC type.

# A16 Series: Overview

Space-saving pushbutton switches offer a wide range of sizes, shapes and colors to match your panel requirements. Lighted models use color LED lamps instead of colored lenses so the switch appears white when unlit and a vivid color when lit. The LED lamp lasts 60 times longer than switches with incandescent lamps, lowering maintenance costs over the life of the machine.



- New Enhanced Brightness
- New Low Current types
- New non-polarized types
- New vivid color options including "Pure White"
- Quick and easy assembly, snap-in switch
- Shapes to match your aesthetic requirements: round, square and rectangular
- Wide range of switching capacity from standard to microload
- High reliability, in standard IP40 and oil-resistant IP65 models
- Short mounting depth, less than 28.5 mm below panel
- Conforms to EN60947-5-1, IEC60947-5-1

## Available Styles

Pushbutton Switch, Non-Lighted, IP40  
 Pushbutton Switch, Non-Lighted, IP65  
 Pushbutton Switch, Lighted, IP40  
 Pushbutton Switch, Lighted, IP65  
 Emergency Stop Switch, Non-Lighted  
 Emergency Stop Switch, Lighted  
 Selector Switches, Non-Lighted, IP65  
 Selector Switches, Lighted, IP65  
 Keyed Selector Switches, IP65  
 Pilot Light, IP40  
 Pilot Light, IP65  
 Buzzer

| Series  | Page |
|---------|------|
| A16     | 11   |
| A165    | 11   |
| A16L    | 11   |
| A165L   | 11   |
| A165E   | 12   |
| A165E-L | 12   |
| A165S   | 13   |
| A165W   | 13   |
| A165K   | 14   |
| M16     | 15   |
| M165    | 15   |
| M2BJ    | 15   |



Automation...simple...powerful.

# A16 Series: Pushbutton Switches, 16 mm dia.

These switches deliver the wide range of options to match most of your panel building needs:

- Protection: IP65 oil-resistant models (A165) and standard IP40 models (A16)
- Lighting: Non-lighted (A16 and A165) and lighted (A16L and A165L)

## Round



Lit and Unlit Round Projection  
**A16-T, A16L-T**  
**A165-T, A165L-T**



Lighted Round Projection,  
110 VAC Transformer  
**A16L-T-T1**  
**A165L-T-T1**



Lighted Round Projection,  
220 VAC Transformer  
**A16L-T-T2**  
**A165L-T-T2**

## Square



Lit and Unlit Square  
2-Way Guard  
**A16-A, A16L-A,**  
**A165-A, A165L-A**



Lighted Square 2-Way  
Guard, 110 VAC  
Transformer  
**A16L-A-T1**  
**A165L-A-T1**



Lighted Square 2-Way  
Guard, 220 VAC  
Transformer  
**A16L-A-T2**  
**A165L-A-T2**

## Rectangular



Lit and Unlit Rectangular  
2-Way Guard  
**A16-J, A16L-J,**  
**A165-J, A165L-J**



Lighted Rectangular  
2-Way Guard, 110 VAC  
Transformer  
**A16L-J-T1**  
**A165L-J-T1**



Lighted Rectangular  
2-Way Guard, 220 VAC  
Transformer  
**A16L-J-T2**  
**A165L-J-T2**

**A16** **5** **L** **J** **R** **M** **24D** **2**

### 1 Degree of Protection

| Symbol | Protection         |
|--------|--------------------|
| None   | IP40               |
| 5      | IP65 oil-resistant |

### 2 Lighted/Non-lighted

| Symbol | Type        |
|--------|-------------|
| None   | Non-lighted |
| L      | Lighted     |

### 3 Shape of Pushbutton

| Symbol | Shape                   |
|--------|-------------------------|
| J      | Rectangular 2-way guard |
| A      | Square 2-way guard      |
| T      | Round Projecting model  |

### 4 Color of Pushbutton

| Symbol | Color                           |
|--------|---------------------------------|
| R      | Red                             |
| Y      | Yellow                          |
| PY     | Pure yellow                     |
| G      | Green                           |
| W      | White                           |
| PW     | Pure White                      |
| A      | Blue                            |
| B      | Black (non-lighted models only) |

"Colored-illumination" models operate in the way shown below:  
Unlit Lit

White Color

The built-in LED is colored.

### 5 Switch Operation

| Symbol | Operation |
|--------|-----------|
| M      | Momentary |
| A      | Alternate |

Momentary: Self-resetting.  
Alternate: Self-holding.

### 7 Contact Configuration

| Symbol | Type | Terminal         |
|--------|------|------------------|
| 1      | SPDT | Solder Terminal  |
| 2      | DPDT | Solder Terminal  |
| 1P     | SPDT | PCB Terminal     |
| 2P     | DPDT | PCB Terminal     |
| 2S     | DPDT | Screw-Less Clamp |

Only DPDT contacts are available with Screw-Less Clamp.

### 6 Light Source

| Symbol | Type        | Operating voltage | Rated voltage |
|--------|-------------|-------------------|---------------|
| None   | Non-lighted |                   |               |
| 5D     | LED         | 5 ±5% VDC         | 5 VDC         |
| 12D    |             | 12 ±5% VAC/VDC    | 12 VAC/VDC    |
| 24D    |             | 24 ±5% VAC/VDC    | 24 VAC/VDC    |

### Voltage Reduction Unit (24-V Built-in LED)

| Symbol | Type | Operating voltage  | Rated voltage |
|--------|------|--------------------|---------------|
| T1     | LED  | 90 to 121 VAC/VDC  | 110 VAC       |
| T2     |      | 180 to 242 VAC/VDC | 220 VAC       |

- Note:
1. Solder terminals are available only with 100-V models.
  2. The Voltage Reduction Unit is not available for models with PCB terminals.
  3. "T2" is available only for the Screw-Less Clamp type.

## A165E Series: Emergency Stop Switches, 16 mm dia.

Use these e-stop switches as part of a Safety Category 4 system.

- Direct opening mechanism to open contacts in emergencies, such as when they are welded.
- Conforms to EN60418.
- Includes a safety lock to prevent misuse.
- Features separate construction that allows the switch to be separated for easier wiring and one-piece-like construction that allows easier handling.
- Models available with 3 contacts built into a single block (A165E-U).



Push-lock  
turn-reset



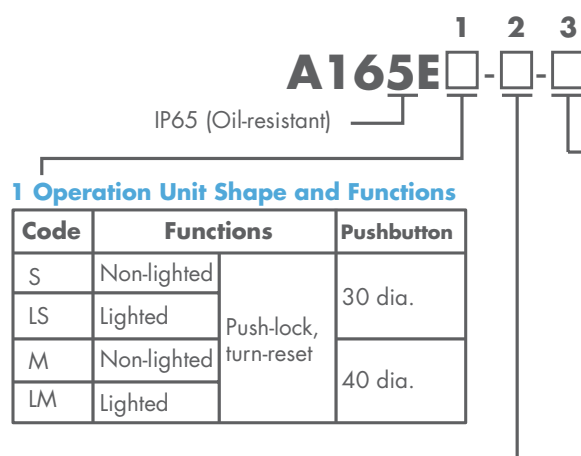
Lighted Round Small  
30 mm dia.,  
Push-lock turn-reset  
**A165E-LS**



Round Medium  
40 mm dia.,  
Push-lock turn-reset  
**A165E-S**



Round Medium  
40 mm dia.,  
Push-lock turn-reset  
**A165E-M**



### 2 Light Source

| Code | Type        | Operation voltage | Rated voltage |
|------|-------------|-------------------|---------------|
| None | Non-lighted | —                 | —             |
| 5D   | LED         | 5 VDC             | 5 VDC         |
| 12D  | LED         | 12 VDC            | 12 VAC/DC     |
| 24D  | LED         | 24 VDC            | 24 VAC/DC     |

Note: Models with separate construction (SPST-NC and DPST-NC) are for normal loads only. One-piece models (TPST-NC) are for either normal loads or microloads.

### 3 Contacts

| Code | Description         |
|------|---------------------|
| 01   | SPST-NC             |
| 02   | DPST-NC             |
| 03U  | TPST-NC (See note.) |

Note: TPST-NC models have one-piece construction with the contact unit. Only non-lighted models are available.

# A165S Selector Switches, Non-Lighted, 16 mm dia.

# A165W Selector Switches, Lighted, 16 mm dia.

Knob style selector switches provide users a reliable way to start or choose between machine operations. Two- and three-position switches with manual or automatic reset are available in non-lighted and lighted models. Use optional legend plates to identify the selections.

## Non-Lighted



Square Base  
Selector Switch  
**A165S-A**



Rectangular Base  
Selector Switch  
**A165S-J**



Round Base  
Selector Switch  
**A165S-T**

## Lighted



Lighted  
Square Base  
Selector Switch  
**A165W-A**



Lighted  
Rectangular Base  
Selector Switch  
**A165W-J**



Lighted  
Round Base  
Selector Switch  
**A165W-T**

**A 165 W - A - 2A R - 24D - 1**

### 1 Lighted/Non-lighted

| Symbol | Type        |
|--------|-------------|
| S      | Non-lighted |
| W      | Lighted     |

### 2 Shape of Selector

| Symbol | Shape       |
|--------|-------------|
| J      | Rectangular |
| A      | Square      |
| T      | Round       |

### 3 Number of Notches/Resetting Method

| Symbol | No. of notches | Reset method |
|--------|----------------|--------------|
| 2M     | 2 notches      | Manual       |
| 2A     |                | Automatic    |
| 3M     | 3 notches      | Manual       |
| 3A     |                | Automatic    |

### 4 Color of Selector

| Symbol | Color                           |
|--------|---------------------------------|
| None   | Black (non-lighted models only) |
| R      | Red                             |
| G      | Green                           |
| Y      | Yellow                          |

### 5 Light Source

| Symbol | Type          |
|--------|---------------|
| None   | Non-lighted   |
| 5D     | 5 VDC LED     |
| 12D    | 12 VAC/DC LED |
| 24D    | 24 VAC/DC LED |

### 6 Contact Configuration

| Symbol | Type | Terminal         |
|--------|------|------------------|
| 1      | SPDT | Solder terminal  |
| 2      | DPDT |                  |
| 1P     | SPDT | PCB terminal     |
| 2P     | DPDT |                  |
| 2S     | DPDT | Screw-Less Clamp |

**Note: 1.** Only DPDT contacts are available with 3-notch models and Screw-Less Clamp models.

**2.** PCB terminals are available only with 2-notch models.

### Voltage Reduction Unit (24-V Built-in LED)

| Symbol | Type | Rated voltage |
|--------|------|---------------|
| T1     | LED  | 110 VAC/VDC   |
| T2     |      | 220 VAC/VDC   |

**Note: 1.** Solder terminals are only available with "T1" 110-V models.

**2.** The Voltage Reduction Unit is not available for models with PCB terminals.

# A165K Series: Keyed Selector Switches, 16 mm dia.

Design in extra security with keyed selector switches. Only authorized operators are allowed to change settings using the key.



Square Base Keyed  
Selector Switch  
**A165K-A**



Rectangular Base  
Keyed Selector Switch  
**A165K-J**



Round Base Keyed  
Selector Switch  
**A165K-T**

**A165K-J-3ML-2**

**1 Shape of Selector**

| Symbol | Shape       | Color |
|--------|-------------|-------|
| J      | Rectangular | Black |
| A      | Square      |       |
| T      | Round       |       |

**2 Number of Notches/Resetting Method**

| Symbol | No. of notches | Reset method | Key release position    |
|--------|----------------|--------------|-------------------------|
| 2ML    | 2 notches      | Manual       | Left                    |
| 2MR    |                |              | Right                   |
| 2M     |                |              | Left and right          |
| 2AL    |                |              | Automatic               |
| 3MC    | 3 notches      | Manual       | Center                  |
| 3MR    |                |              | Right                   |
| 3ML    |                |              | Left                    |
| 3M     |                |              | Left, right, and center |
| 3AC    | 3 notches      | Automatic    | Center                  |

**3 Contact Configuration**

| Symbol | Type | Terminal         |
|--------|------|------------------|
| 1      | SPDT | Solder Terminal  |
| 2      | DPDT | Solder Terminal  |
| 2S     | DPDT | Screw-Less Clamp |

**Note:** 1. Only DPDT contacts are available with 3-notch models.  
 2. PCB terminals are available only with 2-notch models.

## Contact Configurations for Selector Switches A165K, A165S, A165W Models

| 2 Position Type |           |            |            |
|-----------------|-----------|------------|------------|
| Knob position   | SPDT (SW) | DPDT (SW1) | DPDT (SW2) |
|                 |           |            |            |
|                 |           |            |            |

| 3 Position Type |            |            |
|-----------------|------------|------------|
| Knob position   | DPDT (SW1) | DPDT (SW2) |
|                 |            |            |
|                 |            |            |
|                 |            |            |

2 Position



3 Position



SW

SW1

SW2

Automation...simple...powerful.

## M16 Series: Pilot Lights, 16 mm dia.

Pilot lights indicate status of machinery and processes on control panels. Bright LED light source is easy to read under most lighting conditions.

- Easy mounting and removal of socket unit.
- Standard IP40 and oil-resistant IP65 models



Square Pilot Light  
**M16-A, M165-A**



Rectangular Pilot Light  
**M16-J, M165-J**



Round Pilot Light  
**M16-T, M165-T**

**M 1 6-5-T-R-24D-S**

### 1 Degree of Protection

| Symbol    | Protection         |
|-----------|--------------------|
| No symbol | IP40               |
| 5         | IP65 oil-resistant |

### 2 Shape of Display

| Symbol | Shape       |
|--------|-------------|
| J      | Rectangular |
| A      | Square      |
| T      | Round       |

### 3 Color of Display

| Symbol | Color       |
|--------|-------------|
| R      | Red         |
| G      | Green       |
| Y      | Yellow      |
| PY     | Pure yellow |
| W      | White       |
| PW     | Pure White  |
| A      | Blue        |

### 5 Terminal Type

| Symbol    | Terminal type    |
|-----------|------------------|
| No symbol | Solder terminals |
| S         | Screw-Less Clamp |

### 4 Light Source

| Symbol | Type | Operating voltage | Rated voltage |
|--------|------|-------------------|---------------|
| 5D     | LED  | 5 ±5% VDC         | 5 VDC         |
| 12D    |      | 12 ±5% VAC/VDC    | 12 VAC/VDC    |
| 24D    |      | 24 ±5% VAC/VDC    | 24 VAC/VDC    |

### Voltage Reduction Unit (24-V Built-in LED)

| Symbol | Type | Rated voltage |
|--------|------|---------------|
| T1     | LED  | 110 VAC/VDC   |
| T2     |      | 220 VAC/VDC   |

Solder terminals are available only with "T1" 110-V models.

## M2BJ Series: Panel-Mounted Buzzer, 16 mm dia.

- Four models offer eight different types of sounds, plus two modes with high-sound output
- Intermittent or continuous sound selected by jumper setting
- Jumper storage provided at bottom of unit
- Complements the A16 range of Pushbuttons, Selector Switches and Key Switches.



Standard Sound Buzzer  
**M2BJ**



High Volume Sound Buzzer  
**M2BJ-H**

**M2BJ-B**

### 1 Sound Output

| Symbol | Output            |
|--------|-------------------|
| None   | Standard Sound    |
| H      | High Volume Sound |

### 2 Supply Voltage

| Symbol | Voltage Range    |
|--------|------------------|
| 06     | 6 VAC/VDC        |
| 24     | 12 to 24 VAC/VDC |
| 24-D   | 12 to 24 VDC     |

### 3 Sound Types

| Symbol | Sound with/without jumper                                        |
|--------|------------------------------------------------------------------|
| None   | Intermittent/Continuous                                          |
| A      | Intermittent short/Intermittent long                             |
| B      | Intermittent high pitched/Continuous high pitched                |
| C      | Intermittent short, high-pitched/Intermittent long, high-pitched |
| D      | Intermittent high-pitched/Continuous                             |
| E      | Intermittent short/Intermittent long                             |

## Accessories: 22 mm Switches

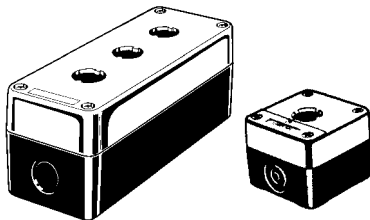
| Item                 |                                                                                   | Appearance                                                                          | Classification                           |                                         | Remarks                                                                                                                          | Part Number |
|----------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------|
| Contact Blocks       |                                                                                   |    | SPST-NO                                  | General-purpose load                    | Provided as standard. Order contact blocks only when adding or replacing them.                                                   | A22-10      |
|                      |                                                                                   |                                                                                     |                                          | Mircoload                               |                                                                                                                                  | A22-10S     |
|                      |                                                                                   |                                                                                     | SPST-NC                                  | General-purpose load                    |                                                                                                                                  | A22-01      |
|                      |                                                                                   |                                                                                     |                                          | Mircoload                               |                                                                                                                                  | A22-01S     |
|                      |                                                                                   | SPST-NO+SPST-NC                                                                     |                                          | General-purpose load                    |                                                                                                                                  | A22-11      |
|                      |                                                                                   | DPST-NO                                                                             | General-purpose load                     | A22-20                                  |                                                                                                                                  |             |
|                      |                                                                                   |                                                                                     | Mircoload                                | A22-20S                                 |                                                                                                                                  |             |
|                      |                                                                                   | DPST-NC                                                                             | General-purpose load                     | A22-02                                  |                                                                                                                                  |             |
|                      |                                                                                   |                                                                                     | Mircoload                                | A22-02S                                 |                                                                                                                                  |             |
| Lamp Sockets         |  | Direct lighting                                                                     |                                          | Used when changing the lighting method. | A22-TN                                                                                                                           |             |
|                      |                                                                                   | Transformer illumination                                                            | 110 VAC                                  |                                         | A22-T1                                                                                                                           |             |
|                      |                                                                                   |                                                                                     | 220 VAC                                  |                                         | A22-T2                                                                                                                           |             |
|                      |                                                                                   |                                                                                     |                                          |                                         |                                                                                                                                  |             |
| Mounting Latches     |                                                                                   |    | For momentary operation models           |                                         | Provided as standard. Order mounting latches only when mounting contact blocks or lamp sockets are purchased individually.       | A22-3200    |
|                      |                                                                                   |                                                                                     | For maintained operation models          |                                         |                                                                                                                                  | A22-3210    |
|                      |                                                                                   |                                                                                     |                                          |                                         |                                                                                                                                  |             |
| Legend plate frames  | Standard size                                                                     |   | With Snap-in Legend Plate (without text) | White                                   | Snap-in legend plate is acrylic.                                                                                                 | A22Z-3321   |
|                      |                                                                                   |                                                                                     |                                          | Red                                     |                                                                                                                                  | A22Z-3322   |
|                      |                                                                                   |                                                                                     |                                          | Black                                   |                                                                                                                                  | A22Z-3323   |
|                      |                                                                                   |                                                                                     | Without Snap-in Legend Plate             |                                         |                                                                                                                                  | A22Z-3320   |
|                      | Large size                                                                        |  | With Snap-in Legend Plate (without text) | White                                   |                                                                                                                                  | A22Z-3331   |
|                      |                                                                                   |                                                                                     |                                          | Red                                     |                                                                                                                                  | A22Z-3332   |
|                      |                                                                                   |                                                                                     |                                          | Black                                   |                                                                                                                                  | A22Z-3333   |
|                      |                                                                                   |                                                                                     | Without Snap-in Legend Plate             |                                         |                                                                                                                                  | A22Z-3330   |
|                      |                                                                                   |                                                                                     |                                          |                                         |                                                                                                                                  |             |
|                      |                                                                                   |                                                                                     |                                          |                                         |                                                                                                                                  |             |
| Lock fitting         |                                                                                   |  | Round                                    |                                         | The body is equipped with a lock fitting. This lock fitting is used when a more secure lock feature is required.                 | A22Z-3360   |
| Metallic bezel rings |                                                                                   |  | For flush or projection models           |                                         | Replace with the standard model. Material: nickel-plated zinc.                                                                   | A22Z-3580   |
|                      |                                                                                   |                                                                                     | For full-guard models                    |                                         |                                                                                                                                  | A22Z-3582   |
| Sealing Caps         |                                                                                   |  | For flush models                         |                                         | Used to prevent dust or water from entering the operational unit. Color: opaque. Material: silicon.                              | A22Z-3600F  |
|                      |                                                                                   |                                                                                     | For extended models                      |                                         |                                                                                                                                  | A22Z-3600T  |
|                      |                                                                                   |                                                                                     | For full-guard models                    |                                         |                                                                                                                                  | A22Z-3600G  |
| Color lenses         |                                                                                   |  | Red                                      |                                         | Used for changing the operational unit color of the pushbutton switch.                                                           | A22Z-30TR   |
|                      |                                                                                   |                                                                                     | Green                                    |                                         |                                                                                                                                  | A22Z-30TG   |
|                      |                                                                                   |                                                                                     | Yellow                                   |                                         |                                                                                                                                  | A22Z-30TY   |
|                      |                                                                                   |                                                                                     | White                                    |                                         |                                                                                                                                  | A22Z-30TW   |
|                      |                                                                                   |                                                                                     | Blue                                     |                                         |                                                                                                                                  | A22Z-30TA   |
| Three-throw spacers  |                                                                                   |  | For Pushbutton Switches                  |                                         | Used when mounting three non-illuminated switch units. Cannot be used with illuminated emergency stop switches.                  | A22Z-3003   |
| Hole plug            |                                                                                   |  | Round                                    |                                         | Can be plugged into pre-cut panel holes for future expansion. The color is black. Can be fit into a 25mm dia. hole in the panel. | A22Z-3550   |
| 25 mm dia. ring      |                                                                                   |  | 25 mm ring                               |                                         | Since this is not attached to the main body, order separately.                                                                   | A22Z-R25    |

Automation...simple...powerful.

## Accessories, 22 mm *continued*

| Item                  |               | Appearance                                                                          | Classification                 |                                                                                   | Remarks                                                                                                                         | Part Number                                                   |  |                                                                                           |            |
|-----------------------|---------------|-------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|--|-------------------------------------------------------------------------------------------|------------|
| Snap-in legend plates | Standard size |    | Without text                   | Black                                                                             | Attached to the standard-size legend plate frame. Material: Acrylic.                                                            | A22Z-3443B                                                    |  |                                                                                           |            |
|                       |               |                                                                                     |                                | Red                                                                               |                                                                                                                                 | A22Z-3443R                                                    |  |                                                                                           |            |
|                       |               |                                                                                     |                                | White                                                                             |                                                                                                                                 | A22Z-3443W                                                    |  |                                                                                           |            |
|                       |               |                                                                                     |                                | Transparent                                                                       |                                                                                                                                 | A22Z-3443C                                                    |  |                                                                                           |            |
|                       |               |                                                                                     | White text on red background   | ○                                                                                 |                                                                                                                                 | A22Z-3443R-2                                                  |  |                                                                                           |            |
|                       |               |                                                                                     |                                | STOP                                                                              |                                                                                                                                 | A22Z-3443R-4                                                  |  |                                                                                           |            |
|                       |               |                                                                                     | White text on black background | I                                                                                 |                                                                                                                                 | A22Z-3443B-1                                                  |  |                                                                                           |            |
|                       |               |                                                                                     |                                | START                                                                             |                                                                                                                                 | A22Z-3443B-3                                                  |  |                                                                                           |            |
|                       |               |                                                                                     |                                | ON                                                                                |                                                                                                                                 | A22Z-3443B-5                                                  |  |                                                                                           |            |
|                       |               |                                                                                     |                                | OFF                                                                               |                                                                                                                                 | A22Z-3443B-6                                                  |  |                                                                                           |            |
|                       |               |                                                                                     |                                | UP                                                                                |                                                                                                                                 | A22Z-3443B-7                                                  |  |                                                                                           |            |
|                       |               |                                                                                     |                                | DOWN                                                                              |                                                                                                                                 | A22Z-3443B-8                                                  |  |                                                                                           |            |
|                       |               |                                                                                     |                                | POWER ON                                                                          |                                                                                                                                 | A22Z-3443B-9                                                  |  |                                                                                           |            |
|                       |               |                                                                                     |                                | OFF-ON                                                                            |                                                                                                                                 | A22Z-3443B-10                                                 |  |                                                                                           |            |
|                       | Large size    |    | Without text                   | Black                                                                             | Attached to the large-size legend plate frame. Material: Acrylic.                                                               | A22Z-3453B                                                    |  |                                                                                           |            |
|                       |               |                                                                                     |                                | Red                                                                               |                                                                                                                                 | A22Z-3453R                                                    |  |                                                                                           |            |
|                       |               |                                                                                     |                                | White                                                                             |                                                                                                                                 | A22Z-3453W                                                    |  |                                                                                           |            |
|                       |               |                                                                                     |                                | Transparent                                                                       |                                                                                                                                 | A22Z-3453C                                                    |  |                                                                                           |            |
|                       |               |                                                                                     | For Emergency Stop Switch      |  |                                                                                                                                 | 60 dia. round plate with black letters on a yellow background |  | “EMERGENCY STOP” is engraved on the plate. used as an emergency stop switch legend plate. | A22N-PE190 |
|                       |               |                                                                                     |                                |                                                                                   |                                                                                                                                 | 90 dia. round plate with black letters on a yellow background |  |                                                                                           | A22N-PE191 |
| Character films       |               |   | No print (Round)               |                                                                                   | After printing on a film, affix to the indicator plate of the illuminated pushbutton switch (The back is coated with adhesive.) | A22Z-3460                                                     |  |                                                                                           |            |
|                       |               |                                                                                     | Character print (Round)        |                                                                                   |                                                                                                                                 | A22Z-3460-1                                                   |  |                                                                                           |            |
|                       |               |                                                                                     |                                | START                                                                             |                                                                                                                                 | A22Z-3460-2                                                   |  |                                                                                           |            |
|                       |               |                                                                                     |                                | STOP                                                                              |                                                                                                                                 | A22Z-3460-3                                                   |  |                                                                                           |            |
|                       |               |                                                                                     | No print (Square)              |                                                                                   |                                                                                                                                 | A22Z-3460-4                                                   |  |                                                                                           |            |
| Lamp extractor        |               |  |                                |                                                                                   | Rubber tool used to easily replace lamps.                                                                                       | A22Z-3480                                                     |  |                                                                                           |            |
| Tightening wrench     |               |  |                                |                                                                                   | Tool used to tighten nuts from the back of the panel.                                                                           | A22Z-3901                                                     |  |                                                                                           |            |
| Lens tightening tool  |               |  |                                |                                                                                   | Used for replacing the cap of the half-guard pushbutton switch.                                                                 | A22Z-3905                                                     |  |                                                                                           |            |
| Lens puller           |               |  |                                |                                                                                   | Used for removing the lens from the indicator of the square lighted pushbutton switch.                                          | A22Z-3908                                                     |  |                                                                                           |            |
|                       |               |                                                                                     |                                |                                                                                   |                                                                                                                                 | A3PJ-5080                                                     |  |                                                                                           |            |

## Enclosures



| Material      | Hole Size         | Number of Holes | Part Number |
|---------------|-------------------|-----------------|-------------|
| Polycarbonate | 22.5 mm (0.88 in) | 1               | A22Z-B101   |
|               |                   | 2               | A22Z-B102   |
|               |                   | 3               | A22Z-B103   |
|               | 22.5 mm (0.88 in) | 1               | A22Z-B101Y* |

\* Yellow box for emergency stop

## Accessories, 22 mm continued

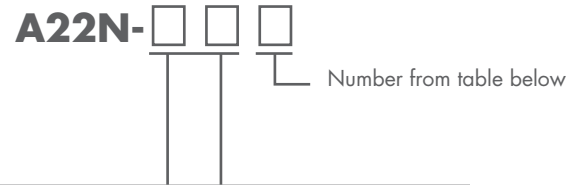
### A22 Standard Nameplates

To complete the part number of the standard nameplates, select the plate type and add the number from the table below for the required text.

All plastic nameplates are adhesive backed for easy, permanent installation.

For custom engraved nameplates please use the order form on the next page.

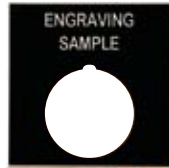
Example: Plastic Square Nameplate  
engraved "RESET": A22N-PS38



| Code | Material/Shape      |
|------|---------------------|
| PR   | Plastic Rectangular |



| Code | Material/Shape |
|------|----------------|
| PS   | Plastic Square |



| Code | Material/Shape |
|------|----------------|
| PX   | Plastic Shield |



| Code | Material/Shape    |
|------|-------------------|
| MR   | Metal Rectangular |



All plastic nameplates are supplied standard with white lettering on a black background.

Metal nameplates are brushed aluminum with black lettering.

|                    |                  |                  |                     |                     |
|--------------------|------------------|------------------|---------------------|---------------------|
| 1 AUTO             | 26 LOWER         | 50 3RD SPEED     | 122 SAFE-RUN        | 167 OFF-LOC-REMOTE  |
| 2 CLOSE            | 27 MOTOR RUN     | 51 4TH SPEED     | 123 SLOW-FAST       | 168 OFF-MAN-AUTO    |
| 3 CYCLE START      | 28 MOTOR STOP    | 100 AUTO-MAN     | 124 START-JOG       | 169 OFF-SLOW-FAST   |
| 4 CYCLE STOP       | 29 OFF           | 101 CLOSE-OPEN   | 125 START-STOP      | 170 OFF-I-2         |
| 5 DECREASE         | 30 ON            | 102 DOWN-UP      | 126 STOP-START      | 171 OPEN-OFF-CLOSE  |
| 6 DOWN             | 31 OPEN          | 103 FAST-SLOW    | 127 SUMMER-WINTER   | 172 RAISE-OFF-LOWER |
| 8 FAST             | 32 OUT           | 104 FOR-REV      | 128 UP-DOWN         | 173 SLOW-OFF-FAST   |
| 9 FAULT            | 33 POWER ON      | 105 HAND-AUTO    | 150 AUTO-MAN-OFF    | 174 SLOW-OFF-START  |
| 10 FEED            | 34 PULL TO START | 106 HIGH-LOW     | 151 AUTO-OFF-HAND   | 175 START-JOG-STOP  |
| 11 FEED START      | 35 PUSH TO TEST  | 107 INCH-REVERSE | 152 AUTO-OFF-MAN    | 176 START-RUN-STOP  |
| 12 FEED STOP       | 36 PUSH TO STOP  | 108 JOG-FOR      | 153 CLOSE-OFF-OPEN  | 177 UP-OFF-DOWN     |
| 13 FLUID LEVEL LOW | 37 RAISE         | 109 JOG-REV      | 154 DOWN-OFF-SLOW   | 178 I-OFF-2         |
| 14 FORWARD         | 38 RESET         | 110 JOG-RUN      | 155 FAST-OFF-SLOW   | 179 HAND-OFF-AUTO   |
| 15 FULL SPEED      | 39 REVERSE       | 111 LEFT-RUN     | 156 FOR-OFF-REV     | 180 I               |
| 16 HAND            | 40 RIGHT         | 112 LOWER-RAISE  | 157 FOR-STOP-REV    | 181 II              |
| 17 HIGH            | 41 RUN           | 113 MAN-AUTO     | 158 HIGH-LOW-OFF    | 182 I-O             |
| 18 IN              | 42 SLOW          | 114 OFF-ON       | 159 HIGH-OFF-LOW    | 183 O-I             |
| 19 INCH            | 43 SPEED         | 115 ON-OFF       | 160 JOG-SAFE-RUN    | 184 I-O-II          |
| 20 INCREASE        | 44 START         | 116 OPEN-CLOSE   | 161 JOG-STOP-RUN    | 185 II-I            |
| 21 JOG             | 45 STOP          | 117 RAISE-LOWER  | 162 LEFT-OFF-RIGHT  | 186 I-O-I           |
| 22 JOG FORWARD     | 46 TEST          | 118 REV-FOR      | 163 LOC-OFF-HIGH    | 187 I-II-III        |
| 23 LEFT            | 47 UP            | 119 RUN-INCH     | 164 LOW-OFF-HIGH    | 188 III             |
| 24 LOW             | 48 1ST SPEED     | 120 RUN-JOG      | 165 LOWER-OFF-RAISE | 200 BLANK NAMEPLATE |
| 25 LOW SPEED       | 49 2ND SPEED     | 121 RUN-SAFE     | 166 OFF COOLANT ON  |                     |

### Emergency Stop Nameplates



A22N-PR7



A22N-PS7



A22N-PX7



A22N-PE190  
60 mm diameter



A22N-PE191  
90 mm diameter

Automation...simple...powerful.

# A22 Custom Engraved Nameplates Order Form

**OMRON**

Copy this order form and utilize it to specify Custom Engraved Nameplates. Once completed, mail the form to:  
**Omron Electronics LLC, Attn.: Customer Service, One Commerce Drive, Schaumburg, IL 60173-5302**  
 Or you may fax this form to either Omron Electronics LLC at: 847.843.8261 or to your local Omron Sales office.

**BILL TO:**

Date: \_\_\_\_\_

Company name: \_\_\_\_\_

Your name: \_\_\_\_\_

Address: \_\_\_\_\_

Your signature: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

PO#: \_\_\_\_\_

Attention: \_\_\_\_\_

Fax: \_\_\_\_\_

**SHIP TO:**

Company name: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Attention: \_\_\_\_\_

Phone: \_\_\_\_\_

**To order:** Select blank nameplate **Shape** (circle A, B, C, or D). For plastic nameplates - Select **Nameplate Color** (circle Black, Yellow, Red or White). Select **Text Color** (circle Black or White). Note - Metal nameplates are brushed aluminum with black text. All plastic nameplates are adhesive backed.

Fill in the **QUANTITY** box. Print text in the spaces provided as it should appear on the finished nameplate.

**A - Plastic Rectangular**

 11 characters max.  
 2 lines max.

**A22N-PR200E**
**B - Plastic Square**

 14 characters max.  
 2 lines max.

**A22N-PS200E**
**C - Plastic Shield**

 11 characters max.  
 2 lines max.

**A22N-PX200E**
**D - Metal Rectangular**

 11 characters max.  
 2 lines max.

**A22N-MR200E**

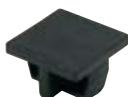
|                 |       |          |          |          |          |                                                                                                         |
|-----------------|-------|----------|----------|----------|----------|---------------------------------------------------------------------------------------------------------|
| Shape           | _____ | <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <div style="border: 1px solid black; width: 50px; height: 30px; margin: 0 auto;"></div> <b>QUANTITY</b> |
| Nameplate Color | _____ | Black    | Yellow   | Red      | White    |                                                                                                         |
| Text Color      | _____ | Black    | White    |          |          |                                                                                                         |
| _____<br>_____  |       |          |          |          |          |                                                                                                         |

|                 |       |          |          |          |          |                                                                                                         |
|-----------------|-------|----------|----------|----------|----------|---------------------------------------------------------------------------------------------------------|
| Shape           | _____ | <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <div style="border: 1px solid black; width: 50px; height: 30px; margin: 0 auto;"></div> <b>QUANTITY</b> |
| Nameplate Color | _____ | Black    | Yellow   | Red      | White    |                                                                                                         |
| Text Color      | _____ | Black    | White    |          |          |                                                                                                         |
| _____<br>_____  |       |          |          |          |          |                                                                                                         |

|                 |       |          |          |          |          |                                                                                                         |
|-----------------|-------|----------|----------|----------|----------|---------------------------------------------------------------------------------------------------------|
| Shape           | _____ | <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <div style="border: 1px solid black; width: 50px; height: 30px; margin: 0 auto;"></div> <b>QUANTITY</b> |
| Nameplate Color | _____ | Black    | Yellow   | Red      | White    |                                                                                                         |
| Text Color      | _____ | Black    | White    |          |          |                                                                                                         |
| _____<br>_____  |       |          |          |          |          |                                                                                                         |

|                 |       |          |          |          |          |                                                                                                         |
|-----------------|-------|----------|----------|----------|----------|---------------------------------------------------------------------------------------------------------|
| Shape           | _____ | <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <div style="border: 1px solid black; width: 50px; height: 30px; margin: 0 auto;"></div> <b>QUANTITY</b> |
| Nameplate Color | _____ | Black    | Yellow   | Red      | White    |                                                                                                         |
| Text Color      | _____ | Black    | White    |          |          |                                                                                                         |
| _____<br>_____  |       |          |          |          |          |                                                                                                         |

# Accessories, 16 mm Switches

| Item                  | Appearance                                                                         | Classification                      |                                                                                     |                               | Remarks                                                                                                                                                                                                                                                                                                                                                                                                                                    | Part Number  |
|-----------------------|------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Switch guards         |   | Rectangular                         |                                                                                     |                               | Cannot be used with the dust cover.                                                                                                                                                                                                                                                                                                                                                                                                        | A16ZJ-5050   |
|                       |                                                                                    | Square and Round                    |                                                                                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZA-5050   |
| Dust covers           |   | Rectangular                         |                                                                                     |                               | Cannot be used with the switch guard.                                                                                                                                                                                                                                                                                                                                                                                                      | A16ZJ-5060   |
|                       |                                                                                    | Square                              |                                                                                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZA-5060   |
|                       |                                                                                    | Round                               |                                                                                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZT-5060   |
| Panel plugs           |   | Rectangular                         |                                                                                     |                               | Used for covering the panel cutouts for future panel expansion.                                                                                                                                                                                                                                                                                                                                                                            | A3BJ-3003    |
|                       |                                                                                    | Square                              |                                                                                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A3BA-3003    |
|                       |                                                                                    | Round                               |                                                                                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A3BT-3003    |
| Legend panels         |   | Rectangular                         | IP40                                                                                | Opaque                        | A single legend panel (transparent) is included with a standard model.<br><br>The opaque legend panel can be used with the IP40 and the oil-resistant IP65.                                                                                                                                                                                                                                                                                | A16ZJ-5204   |
|                       |                                                                                    |                                     |                                                                                     | Transparent                   |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZJ-5202   |
|                       |                                                                                    |                                     | Oil-resistant IP65                                                                  | Opaque                        |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZJ-5204   |
|                       |                                                                                    |                                     |                                                                                     | Transparent                   |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZJ-5203   |
|                       |                                                                                    | Square                              | IP40                                                                                | Opaque                        |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZA-5204   |
|                       |                                                                                    |                                     |                                                                                     | Transparent                   |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZA-5202   |
|                       |                                                                                    |                                     | Oil-resistant IP65                                                                  | Opaque                        |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZA-5204   |
|                       |                                                                                    |                                     |                                                                                     | Transparent                   |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZA-5203   |
|                       |                                                                                    | Round                               | IP40                                                                                | Opaque                        |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZT-5204   |
|                       |                                                                                    |                                     |                                                                                     | Transparent                   |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZT-5202   |
|                       |                                                                                    |                                     | Oil-resistant IP65                                                                  | Opaque                        |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZT-5204   |
|                       |                                                                                    |                                     |                                                                                     | Transparent                   |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16ZT-5203   |
| Color caps (for IP40) |  | LED indicator/<br>Non-lighted       |                                                                                     | White                         | Insert one of the following letters into the box (□).<br>J: Rectangular<br>A: Square<br>T: Round<br>The color cap is supplied.<br>Replace the cap if the color is to be changed. When using an LED indicator, be sure to use a color cap that matches the luminescent color of the LED. The materials used for the IP40 and oil-resistant IP65 are different, so be sure to use a color cap that matches the specifications of the switch. | A16Z□-5001W  |
|                       |                                                                                    |                                     |                                                                                     | Red                           |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16Z□-5001R  |
|                       |                                                                                    |                                     |                                                                                     | Yellow                        |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16Z□-5001Y  |
|                       |                                                                                    | LED indicator                       |                                                                                     | Green                         |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16Z□-5001GY |
|                       |                                                                                    |                                     |                                                                                     | Blue                          |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16Z□-5001A  |
|                       |                                                                                    | Non-lighted                         |                                                                                     | Green                         |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16Z□-5001G  |
|                       |                                                                                    |                                     |                                                                                     | Black                         |                                                                                                                                                                                                                                                                                                                                                                                                                                            | A16Z□-5011B  |
|                       |                                                                                    | Color caps (for oil-resistant IP65) |  | LED indicator/<br>Non-lighted |                                                                                                                                                                                                                                                                                                                                                                                                                                            | White        |
| Red                   | A16Z□-5101R                                                                        |                                     |                                                                                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |
| Yellow                | A16Z□-5101Y                                                                        |                                     |                                                                                     |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |
| LED indicator         |                                                                                    |                                     |                                                                                     | Green                         | A16Z□-5101GY                                                                                                                                                                                                                                                                                                                                                                                                                               |              |
|                       |                                                                                    |                                     |                                                                                     | Blue                          | A16Z□-5101A                                                                                                                                                                                                                                                                                                                                                                                                                                |              |
| Non-lighted           |                                                                                    |                                     |                                                                                     | Green                         | A16Z□-5101G                                                                                                                                                                                                                                                                                                                                                                                                                                |              |
|                       |                                                                                    |                                     |                                                                                     | Black                         | A16Z□-5111B                                                                                                                                                                                                                                                                                                                                                                                                                                |              |

| Item                        | Appearance                                                                          | Applicable types  |                           |                          |               |           | Remarks                                                                                  | Part number |
|-----------------------------|-------------------------------------------------------------------------------------|-------------------|---------------------------|--------------------------|---------------|-----------|------------------------------------------------------------------------------------------|-------------|
|                             |                                                                                     | Pushbutton Switch | Knob-type Selector Switch | Key-type Selector Switch | E-Stop Switch | Indicator |                                                                                          |             |
| Pushbutton switch extractor |  | Yes               | No                        | No                       | No            | Yes       | Convenient for extracting pushbutton switches.                                           | A3PJ-5080   |
| Screw fitting               |  | Yes               | Yes                       | Yes                      | Yes           | Yes       | Convenient for ganged installation.<br>Tighten to a torque of 0.39 N • (5 kgf • cm) min. | A16Z-3004   |
| Lamp unit extractor         |  | Yes               | Yes                       | Yes                      | Yes           | Yes       | Convenient for extracting the switch unit and lamps.                                     | A16Z-5080   |

Automation...simple...powerful.

## Accessories, 16 mm *continued*

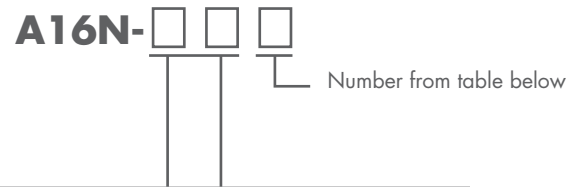
### A16 Standard Nameplates

To complete the part number of the standard nameplates, select the plate type and add the number from the table below for the required text.

All plastic nameplates are adhesive backed for easy, permanent installation.

For custom engraved nameplates please use the order form on the next page.

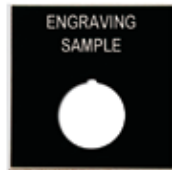
Example: Plastic Square Nameplate  
engraved "RESET": A16N-PS38



| Code | Material/Shape      |
|------|---------------------|
| PR   | Plastic Rectangular |



| Code | Material/Shape |
|------|----------------|
| PS   | Plastic Square |



| Code | Material/Shape |
|------|----------------|
| PX   | Plastic Shield |



| Code | Material/Shape    |
|------|-------------------|
| MR   | Metal Rectangular |



All plastic nameplates are supplied standard with white lettering on a black background.

Metal nameplates are brushed aluminum with black lettering.

|                    |                  |                  |                     |                     |
|--------------------|------------------|------------------|---------------------|---------------------|
| 1 AUTO             | 26 LOWER         | 50 3RD SPEED     | 122 SAFE-RUN        | 167 OFF-LOC-REMOTE  |
| 2 CLOSE            | 27 MOTOR RUN     | 51 4TH SPEED     | 123 SLOW-FAST       | 168 OFF-MAN-AUTO    |
| 3 CYCLE START      | 28 MOTOR STOP    | 100 AUTO-MAN     | 124 START-JOG       | 169 OFF-SLOW-FAST   |
| 4 CYCLE STOP       | 29 OFF           | 101 CLOSE-OPEN   | 125 START-STOP      | 170 OFF-I-2         |
| 5 DECREASE         | 30 ON            | 102 DOWN-UP      | 126 STOP-START      | 171 OPEN-OFF-CLOSE  |
| 6 DOWN             | 31 OPEN          | 103 FAST-SLOW    | 127 SUMMER-WINTER   | 172 RAISE-OFF-LOWER |
| 8 FAST             | 32 OUT           | 104 FOR-REV      | 128 UP-DOWN         | 173 SLOW-OFF-FAST   |
| 9 FAULT            | 33 POWER ON      | 105 HAND-AUTO    | 150 AUTO-MAN-OFF    | 174 SLOW-OFF-START  |
| 10 FEED            | 34 PULL TO START | 106 HIGH-LOW     | 151 AUTO-OFF-HAND   | 175 START-JOG-STOP  |
| 11 FEED START      | 35 PUSH TO TEST  | 107 INCH-REVERSE | 152 AUTO-OFF-MAN    | 176 START-RUN-STOP  |
| 12 FEED STOP       | 36 PUSH TO STOP  | 108 JOG-FOR      | 153 CLOSE-OFF-OPEN  | 177 UP-OFF-DOWN     |
| 13 FLUID LEVEL LOW | 37 RAISE         | 109 JOG-REV      | 154 DOWN-OFF-SLOW   | 178 1-OFF-2         |
| 14 FORWARD         | 38 RESET         | 110 JOG-RUN      | 155 FAST-OFF-SLOW   | 179 HAND-OFF-AUTO   |
| 15 FULL SPEED      | 39 REVERSE       | 111 LEFT-RUN     | 156 FOR-OFF-REV     | 180 I               |
| 16 HAND            | 40 RIGHT         | 112 LOWER-RAISE  | 157 FOR-STOP-REV    | 181 II              |
| 17 HIGH            | 41 RUN           | 113 MAN-AUTO     | 158 HIGH-LOW-OFF    | 182 I-O             |
| 18 IN              | 42 SLOW          | 114 OFF-ON       | 159 HIGH-OFF-LOW    | 183 O-I             |
| 19 INCH            | 43 SPEED         | 115 ON-OFF       | 160 JOG-SAFE-RUN    | 184 I-O-II          |
| 20 INCREASE        | 44 START         | 116 OPEN-CLOSE   | 161 JOG-STOP-RUN    | 185 I-II            |
| 21 JOG             | 45 STOP          | 117 RAISE-LOWER  | 162 LEFT-OFF-RIGHT  | 186 I-O-I           |
| 22 JOG FORWARD     | 46 TEST          | 118 REV-FOR      | 163 LOC-OFF-HIGH    | 187 I-II-III        |
| 23 LEFT            | 47 UP            | 119 RUN-INCH     | 164 LOW-OFF-HIGH    | 188 III             |
| 24 LOW             | 48 1ST SPEED     | 120 RUN-JOG      | 165 LOWER-OFF-RAISE | 200 BLANK NAMEPLATE |
| 25 LOW SPEED       | 49 2ND SPEED     | 121 RUN-SAFE     | 166 OFF COOLANT ON  |                     |

### Emergency Stop Nameplates



**A16N-PR7**



**A16N-PS7**



**A16N-PX7**



**A16N-PE190**  
60 mm diameter



**A16N-PE191**  
90 mm diameter

# A16 Custom Engraved Nameplates Order Form

**OMRON**

Copy this order form and utilize it to specify Custom Engraved Nameplates. Once completed, mail the form to:  
**Omron Electronics LLC, Attn.: Customer Service, One Commerce Drive, Schaumburg, IL 60173-5302**  
 Or you may fax this form to either Omron Electronics LLC at: 847.843.8261 or to your local Omron Sales office.

**BILL TO:**

Company name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Address: \_\_\_\_\_ Your name: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_ Your signature: \_\_\_\_\_  
 Attention: \_\_\_\_\_ PO#: \_\_\_\_\_  
 Fax: \_\_\_\_\_

**SHIP TO:**

Company name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City/State/Zip: \_\_\_\_\_  
 Attention: \_\_\_\_\_ Phone: \_\_\_\_\_

**To order:** Select blank nameplate **Shape** (circle A, B, C, or D). For plastic nameplates - Select **Nameplate Color** (circle Black, Yellow, Red or White). Select **Text Color** (circle Black or White). Note - Metal nameplates are brushed aluminum with black text. All plastic nameplates are adhesive backed.

Fill in the **QUANTITY** box. Print text in the spaces provided as it should appear on the finished nameplate.

**A - Plastic Rectangular**

11 characters max.  
2 lines max.


**A16N-PR200E**
**B - Plastic Square**

14 characters max.  
2 lines max.


**A16N-PS200E**
**C - Plastic Shield**

11 characters max.  
2 lines max.


**A16N-PX200E**
**D - Metal Rectangular**

11 characters max.  
2 lines max.


**A16N-MR200E**

|                  |          |          |          |          |                 |
|------------------|----------|----------|----------|----------|-----------------|
| Shape _____      | <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>QUANTITY</b> |
| Nameplate Color  | Black    | Yellow   | Red      | White    |                 |
| Text Color _____ | Black    | White    |          |          |                 |
| _____            |          |          |          |          |                 |
| _____            |          |          |          |          |                 |

|                  |          |          |          |          |                 |
|------------------|----------|----------|----------|----------|-----------------|
| Shape _____      | <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>QUANTITY</b> |
| Nameplate Color  | Black    | Yellow   | Red      | White    |                 |
| Text Color _____ | Black    | White    |          |          |                 |
| _____            |          |          |          |          |                 |
| _____            |          |          |          |          |                 |

|                  |          |          |          |          |                 |
|------------------|----------|----------|----------|----------|-----------------|
| Shape _____      | <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>QUANTITY</b> |
| Nameplate Color  | Black    | Yellow   | Red      | White    |                 |
| Text Color _____ | Black    | White    |          |          |                 |
| _____            |          |          |          |          |                 |
| _____            |          |          |          |          |                 |

|                  |          |          |          |          |                 |
|------------------|----------|----------|----------|----------|-----------------|
| Shape _____      | <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>QUANTITY</b> |
| Nameplate Color  | Black    | Yellow   | Red      | White    |                 |
| Text Color _____ | Black    | White    |          |          |                 |
| _____            |          |          |          |          |                 |
| _____            |          |          |          |          |                 |



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