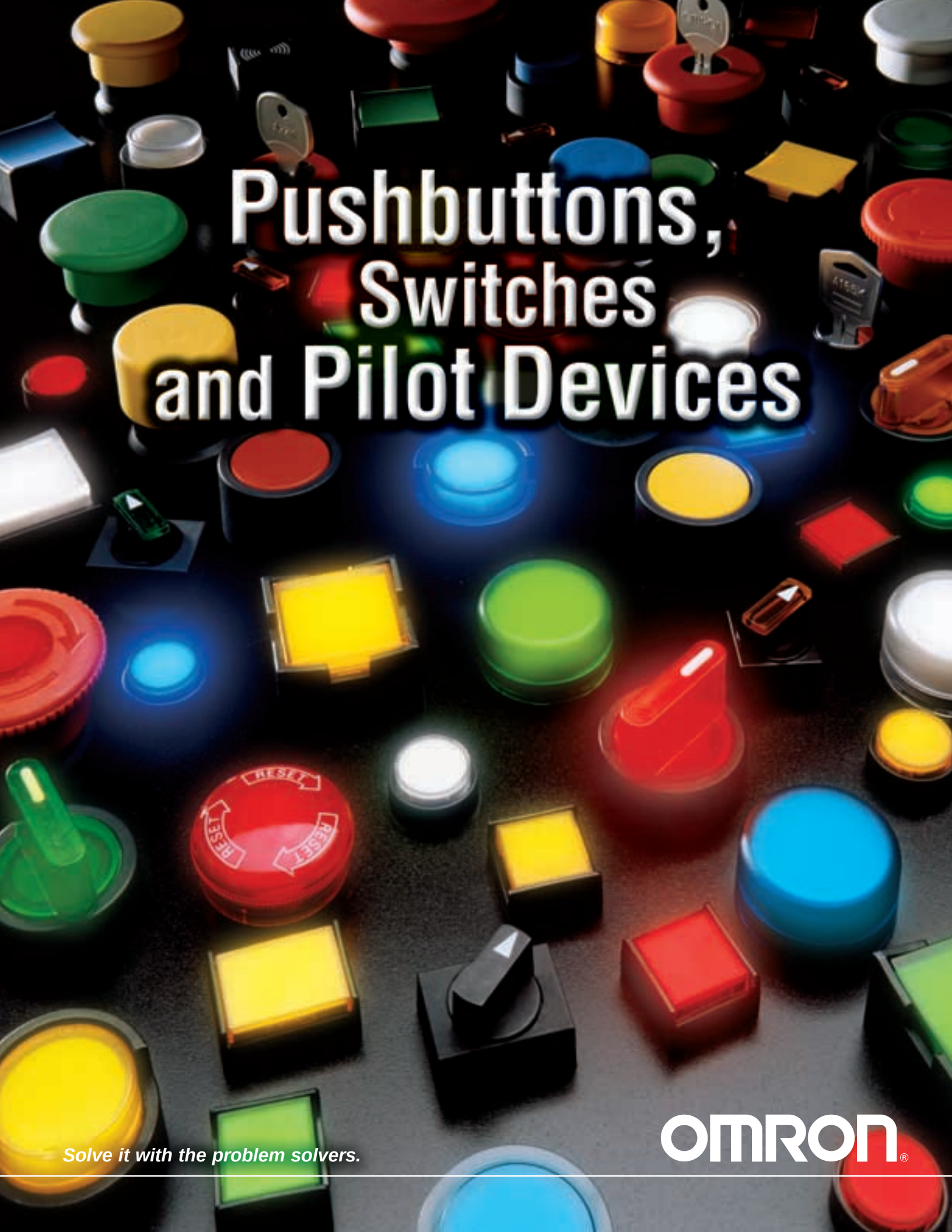




Pushbuttons, Switches and Pilot Devices

Solve it with the problem solvers.

OMRON[®]

Industrial Switch Solutions for Your Automation Needs

Omron offers a broad product line, worldwide delivery coordination and single-point customer service support

Design your machine controls to give operators a confident feel and quick grasp of status using Omron's wide range of pushbutton and selector switches, pilot devices and emergency stop switches. Combine these switches with Omron PLCs, safety relays, SSRs, I/O blocks, and power supplies to organize and minimize wiring requirements inside the cabinet.

A reliable partner

With over 65 years of expertise in industrial automation and electronic components manufacturing, Omron has become a global leader in making the production process easier for operators to monitor and control. Our factories meet ISO 9000 and ISO 14000 certification, and products are designed to meet international standards, so exporting machines outside North America goes smoothly. We back up our expertise with sizeable investments in R&D amounting to seven percent of the annual 5 Billion US\$ sales. We continually achieve innovations that make machines work smarter to keep operators safe, confident and effective.

Worldwide availability and support

What sets Omron ahead of many switch and pilot device suppliers is the combined advantages of a wide array of control product lines to support your system design inside and out. By consolidating product sourcing with Omron, you achieve the best pricing advantage and coordination in scheduling deliveries to match your production needs. Our national network of distributors and worldwide sales and technical partners can support your equipment.

Let's work together to solve your control panel and system design problems.

Reduce Installation Time



Just two parts snap together for tool-free, timesaving installation



22 mm



Single-action latching lever for fast, secure mounting



16 mm

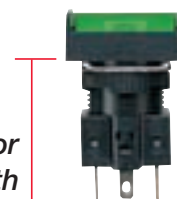
Reduce Panel Depth



Compact side-by-side contacts eliminate piggyback contact arrangements, reducing panel depth

22 mm

IP65 oil-tight construction



Improved design for reduced panel depth

16 mm

IP65 oil-tight models and IP40 commercial models

Enclosures

Let Omron provide the reliable plastic or metal enclosures you need for a complete machine control installation of 22 mm switches and pilot devices.

- Light gray plastic enclosures for lightweight control pendants; 1, 2 or 3 switches
- Light gray metal enclosures for panel or pendant use; 1, 2, 3, 4, 6, 9, 12, or 16 switches



Other Features



Finger-safe contact blocks are shipped with the screws backed out for fast wiring



Contact blocks rated for general purpose and microloads **16 mm**

22 mm

Normally closed contacts approved for safety circuits

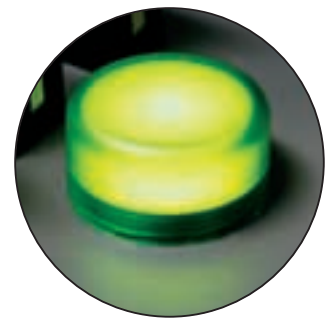


Knob and key-type selector switches have robust mechanical detents



E-Stops and buzzers—protect and alert

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



Super-bright LED illumination offers 60 times longer life than incandescent

Nameplates

Omron offers a wide range of nameplates to clearly identify each switch and indicator.

- Adhesive-backed plastic, 22 mm
- Metal, 22 mm
- Round E-Stop switch, 16 mm and 22 mm
- Snap-in plastic nameplates, 16 mm and 22 mm
- Custom-engraved plastic, 22 mm, in square, rectangular and shield shapes
- Custom-engraved metal, 22 mm, in rectangular shape

Order custom nameplates in Spanish, French, as well as English, or dual language as required for your design.



Non-illuminated

22 mm Selection Guide

Shape	Pushbutton								Selector Switch
Part Number	Round flush A22-F	Round extended A22-T	Round full-guard A22-G	Round half-guard A22-H	30 mm mushroom A22-S	40 mm mushroom A22-M	Square extended A22-C	Square full-guard A22-D	2- or 3-position knob A22S
Appearance									
Color	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆
Page Number	6	6	6	6	6	6	6	6	10

Shape	Selector Switch Extended Lever	Key Switch	Emergency Stop						
Part Number	2- or 3-position knob A22S-C	2- or 3-position knob A22K	Push-pull 40 mm dia. A22E-MP	Push-pull 60 mm dia. A22E-LP	Push-lock, turn-reset 30 mm dia. A22E-S	Push-lock, turn-reset 40 mm dia. A22E-M	Push-lock, turn-reset 60 mm dia. A22E-L	Push-lock, key-reset 30 mm dia. A22E-SK	Push-lock, key-reset 40 mm dia. A22E-MK
Appearance									
Color	◆	◆	◆	◆	◆	◆	◆	◆	◆
Page Number	10	12	14	14	14	14	14	14	14

Illuminated

Shape	Pushbutton					Selector Switch	Pilot Light		Emergency Stop
Part Number	Round extended A22L-T	Round half-guard A22L-H	Round full-guard A22L-G	Square extended A22L-C	Square full-guard A22L-D	2- or 3-position knob A22W	Round M22-F	Square M22-C	Push-lock, turn-reset 40 mm dia. A22EL-M
Appearance									
Color	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆◆◆◆◆◆◆◆◆◆	◆
Page Number	7	7	8	8	9	10	13	13	14

16 mm Selection Guide

Shape	Buzzer Rectangular standard and high sound	Emergency Stop Push-lock, turn-reset 30 mm dia.
Part Number	M2BJ	A165E-S
Appearance		
Color	◆	◆ Also available: 40 mm dia. A165E-M
Page Number	22	22

◆ Also available:
40 mm dia.
A165E-M

Shape	Pilot Lights			Emergency Stop
Part Number	Round M165-T	Square M165-A	Rectangular M165-J	Push-lock, turn reset 30 mm dia. A165E-LS
Appearance				
Color				Also available: 40 mm dia. A165E-LM
Page Number	22	22	22	22

◆ Also available.
40 mm dia.
A165E-LM

Pushbutton Switches

Non-illuminated Round Type

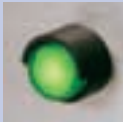
Description		Part number		Operator color
Appearance	Contacts	Momentary operation	Maintained operation	
Round flush 	SPST-NO	A22-F□-10M	A22-F□-10A	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue) B (black)
	SPST-NC	A22-F□-01M	A22-F□-01A	
	SPST-NO + SPST-NC	A22-F□-11M	A22-F□-11A	
	DPST-NO	A22-F□-20M	A22-F□-20A	
	DPST-NC	A22-F□-02M	A22-F□-02A	
Round extended 	SPST-NO	A22-T□-10M	A22-T□-10A	
	SPST-NC	A22-T□-01M	A22-T□-01A	
	SPST-NO + SPST-NC	A22-T□-11M	A22-T□-11A	
	DPST-NO	A22-T□-20M	A22-T□-20A	
	DPST-NC	A22-T□-02M	A22-T□-02A	
Round full-guard 	SPST-NO	A22-G□-10M	A22-G□-10A	
	SPST-NC	A22-G□-01M	A22-G□-01A	
	SPST-NO + SPST-NC	A22-G□-11M	A22-G□-11A	
	DPST-NO	A22-G□-20M	A22-G□-20A	
	DPST-NC	A22-G□-02M	A22-G□-02A	
Round half-guard 	SPST-NO	A22-H□-10M	A22-H□-10A	
	SPST-NC	A22-H□-01M	A22-H□-01A	
	SPST-NO + SPST-NC	A22-H□-11M	A22-H□-11A	
	DPST-NO	A22-H□-20M	A22-H□-20A	
	DPST-NC	A22-H□-02M	A22-H□-02A	
Small-size mushroom (30-mm dia. head) 	SPST-NO	A22-S□-10M	A22-S□-10A	
	SPST-NC	A22-S□-01M	A22-S□-01A	
	SPST-NO + SPST-NC	A22-S□-11M	A22-S□-11A	
	DPST-NO	A22-S□-20M	A22-S□-20A	
	DPST-NC	A22-S□-02M	A22-S□-02A	
Medium-size mushroom (40-mm dia. head) 	SPST-NO	A22-M□-10M	A22-M□-10A	
	SPST-NC	A22-M□-01M	A22-M□-01A	
	SPST-NO + SPST-NC	A22-M□-11M	A22-M□-11A	
	DPST-NO	A22-M□-20M	A22-M□-20A	
	DPST-NC	A22-M□-02M	A22-M□-02A	

Non-illuminated Square Type

Description		Part number		Operator color
Appearance	Contacts	Momentary operation	Maintained operation	
Square extended 	SPST-NO	A22-C□-10M	A22-C□-10A	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue) B (black)
	SPST-NC	A22-C□-01M	A22-C□-01A	
	SPST-NO + SPST-NC	A22-C□-11M	A22-C□-11A	
	DPST-NO	A22-C□-20M	A22-C□-20A	
	DPST-NC	A22-C□-02M	A22-C□-02A	
Square full-guard 	SPST-NO	A22-D□-10M	A22-D□-10A	
	SPST-NC	A22-D□-01M	A22-D□-01A	
	SPST-NO + SPST-NC	A22-D□-11M	A22-D□-11A	
	DPST-NO	A22-D□-20M	A22-D□-20A	
	DPST-NC	A22-D□-02M	A22-D□-02A	

Pushbutton Switches

Illuminated Round Type

Description			Part number		Operator color
Appearance	Contacts	Rated voltage	Momentary operation	Maintained operation	
Round extended LED lighting (without transformer) 	SPST-NO	6 VDC	A22L-T□-6D-10M	A22L-T□-6D-10A	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue)
		6 VAC	A22L-T□-6A-10M	A22L-T□-6A-10A	
		12 VAC/DC	A22L-T□-12A-10M	A22L-T□-12A-10A	
		24 VAC/DC	A22L-T□-24A-10M	A22L-T□-24A-10A	
	SPST-NC	6 VDC	A22L-T□-6D-01M	A22L-T□-6D-01A	
		6 VAC	A22L-T□-6A-01M	A22L-T□-6A-01A	
		12 VAC/DC	A22L-T□-12A-01M	A22L-T□-12A-01A	
		24 VAC/DC	A22L-T□-24A-01M	A22L-T□-24A-01A	
	SPST-NO + SPST-NC	6 VDC	A22L-T□-6D-11M	A22L-T□-6D-11A	
		6 VAC	A22L-T□-6A-11M	A22L-T□-6A-11A	
		12 VAC/DC	A22L-T□-12A-11M	A22L-T□-12A-11A	
		24 VAC/DC	A22L-T□-24A-11M	A22L-T□-24A-11A	
	DPST-NO	6 VDC	A22L-T□-6D-20M	A22L-T□-6D-20A	
		6 VAC	A22L-T□-6A-20M	A22L-T□-6A-20A	
		12 VAC/DC	A22L-T□-12A-20M	A22L-T□-12A-20A	
		24 VAC/DC	A22L-T□-24A-20M	A22L-T□-24A-20A	
	DPST-NC	6 VDC	A22L-T□-6D-02M	A22L-T□-6D-02A	
		6 VAC	A22L-T□-6A-02M	A22L-T□-6A-02A	
		12 VAC/DC	A22L-T□-12A-02M	A22L-T□-12A-02A	
		24 VAC/DC	A22L-T□-24A-02M	A22L-T□-24A-02A	
Round extended LED lighting (with transformer) 	SPST-NO	110 VAC	A22L-T□-T1-10M	A22L-T□-T1-10A	
		220 VAC	A22L-T□-T2-10M	A22L-T□-T2-10A	
	SPST-NC	110 VAC	A22L-T□-T1-01M	A22L-T□-T1-01A	
		220 VAC	A22L-T□-T2-01M	A22L-T□-T2-01A	
	SPST-NO + SPST-NC	110 VAC	A22L-T□-T1-11M	A22L-T□-T1-11A	
		220 VAC	A22L-T□-T2-11M	A22L-T□-T2-11A	
	DPST-NO	110 VAC	A22L-T□-T1-20M	A22L-T□-T1-20A	
		220 VAC	A22L-T□-T2-20M	A22L-T□-T2-20A	
	DPST-NC	110 VAC	A22L-T□-T1-02M	A22L-T□-T1-02A	
		220 VAC	A22L-T□-T2-02M	A22L-T□-T2-02A	
Round half-guard LED lighting (without transformer) 	SPST-NO	6 VDC	A22L-H□-6D-10M	A22L-H□-6D-10A	
		6 VAC	A22L-H□-6A-10M	A22L-H□-6A-10A	
		12 VAC/DC	A22L-H□-12A-10M	A22L-H□-12A-10A	
		24 VAC/DC	A22L-H□-24A-10M	A22L-H□-24A-10A	
	SPST-NC	6 VDC	A22L-H□-6D-01M	A22L-H□-6D-01A	
		6 VAC	A22L-H□-6A-01M	A22L-H□-6A-01A	
		12 VAC/DC	A22L-H□-12A-01M	A22L-H□-12A-01A	
		24 VAC/DC	A22L-H□-24A-01M	A22L-H□-24A-01A	
	SPST-NO + SPST-NC	6 VDC	A22L-H□-6D-11M	A22L-H□-6D-11A	
		6 VAC	A22L-H□-6A-11M	A22L-H□-6A-11A	
		12 VAC/DC	A22L-H□-12A-11M	A22L-H□-12A-11A	
		24 VAC/DC	A22L-H□-24A-11M	A22L-H□-24A-11A	
	DPST-NO	6 VDC	A22L-H□-6D-20M	A22L-H□-6D-20A	
		6 VAC	A22L-H□-6A-20M	A22L-H□-6A-20A	
		12 VAC/DC	A22L-H□-12A-20M	A22L-H□-12A-20A	
		24 VAC/DC	A22L-H□-24A-20M	A22L-H□-24A-20A	
	DPST-NC	6 VDC	A22L-H□-6D-02M	A22L-H□-6D-02A	
		6 VAC	A22L-H□-6A-02M	A22L-H□-6A-02A	
		12 VAC/DC	A22L-H□-12A-02M	A22L-H□-12A-02A	
		24 VAC/DC	A22L-H□-24A-02M	A22L-H□-24A-02A	

(This table continues on the next page.)

Pushbutton Switches

Illuminated Round Type (continued)

Description			Part number		Operator color
Appearance	Contacts	Rated voltage	Momentary operation	Maintained operation	
Round half-guard LED lighting (with transformer) 	SPST-NO	110 VAC	A22L-H□-T1-10M	A22L-H□-T1-10A	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue)
		220 VAC	A22L-H□-T2-10M	A22L-H□-T2-10A	
	SPST-NC	110 VAC	A22L-H□-T1-01M	A22L-H□-T1-01A	
		220 VAC	A22L-H□-T2-01M	A22L-H□-T2-01A	
	SPST-NO + SPST-NC	110 VAC	A22L-H□-T1-11M	A22L-H□-T1-11A	
		220 VAC	A22L-H□-T2-11M	A22L-H□-T2-11A	
	DPST-NO	110 VAC	A22L-H□-T1-20M	A22L-H□-T1-20A	
		220 VAC	A22L-H□-T2-20M	A22L-H□-T2-20A	
	DPST-NC	110 VAC	A22L-H□-T1-02M	A22L-H□-T1-02A	
		220 VAC	A22L-H□-T2-02M	A22L-H□-T2-02A	
Round clear full-guard LED lighting (without transformer) 	SPST-NO	6 VDC	A22L-G□-6D-10M	A22L-G□-6D-10A	
		6 VAC	A22L-G□-6A-10M	A22L-G□-6A-10A	
		12 VAC/DC	A22L-G□-12A-10M	A22L-G□-12A-10A	
		24 VAC/DC	A22L-G□-24A-10M	A22L-G□-24A-10A	
	SPST-NC	6 VDC	A22L-G□-6D-01M	A22L-G□-6D-01A	
		6 VAC	A22L-G□-6A-01M	A22L-G□-6A-01A	
		12 VAC/DC	A22L-G□-12A-01M	A22L-G□-12A-01A	
		24 VAC/DC	A22L-G□-24A-01M	A22L-G□-24A-01A	
	SPST-NO + SPST-NC	6 VDC	A22L-G□-6D-11M	A22L-G□-6D-11A	
		6 VAC	A22L-G□-6A-11M	A22L-G□-6A-11A	
		12 VAC/DC	A22L-G□-12A-11M	A22L-G□-12A-11A	
		24 VAC/DC	A22L-G□-24A-11M	A22L-G□-24A-11A	
	DPST-NO	6 VDC	A22L-G□-6D-20M	A22L-G□-6D-20A	
		6 VAC	A22L-G□-6A-20M	A22L-G□-6A-20A	
		12 VAC/DC	A22L-G□-12A-20M	A22L-G□-12A-20A	
		24 VAC/DC	A22L-G□-24A-20M	A22L-G□-24A-20A	
	DPST-NC	6 VDC	A22L-G□-6D-02M	A22L-G□-6D-02A	
		6 VAC	A22L-G□-6A-02M	A22L-G□-6A-02A	
		12 VAC/DC	A22L-G□-12A-02M	A22L-G□-12A-02A	
		24 VAC/DC	A22L-G□-24A-02M	A22L-G□-24A-02A	
Round clear full-guard LED lighting (with transformer) 	SPST-NO	110 VAC	A22L-G□-T1-10M	A22L-G□-T1-10A	
		220 VAC	A22L-G□-T2-10M	A22L-G□-T2-10A	
	SPST-NC	110 VAC	A22L-G□-T1-01M	A22L-G□-T1-01A	
		220 VAC	A22L-G□-T2-01M	A22L-G□-T2-01A	
	SPST-NO + SPST-NC	110 VAC	A22L-G□-T1-11M	A22L-G□-T1-11A	
		220 VAC	A22L-G□-T2-11M	A22L-G□-T2-11A	
	DPST-NO	110 VAC	A22L-G□-T1-20M	A22L-G□-T1-20A	
		220 VAC	A22L-G□-T2-20M	A22L-G□-T2-20A	
	DPST-NC	110 VAC	A22L-G□-T1-02M	A22L-G□-T1-02A	
		220 VAC	A22L-G□-T2-02M	A22L-G□-T2-02A	

Illuminated Square Type

Description			Part number		Operator color
Appearance	Contacts	Rated voltage	Momentary operation	Maintained operation	
Square extended LED lighting (without transformer) 	SPST-NO	6 VDC	A22L-C□-6D-10M	A22L-C□-6D-10A	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue)
		6 VAC	A22L-C□-6A-10M	A22L-C□-6A-10A	
		12 VAC/DC	A22L-C□-12A-10M	A22L-C□-12A-10A	
		24 VAC/DC	A22L-C□-24A-10M	A22L-C□-24A-10A	
	SPST-NC	6 VDC	A22L-C□-6D-01M	A22L-C□-6D-01A	
		6 VAC	A22L-C□-6A-01M	A22L-C□-6A-01A	
		12 VAC/DC	A22L-C□-12A-01M	A22L-C□-12A-01A	
		24 VAC/DC	A22L-C□-24A-01M	A22L-C□-24A-01A	

(This table continues on the next page.)

Pushbutton Switches

Illuminated Square Type (continued)

Description			Part number		Operator color
Appearance	Contacts	Rated voltage	Momentary operation	Maintained operation	
Square extended LED lighting (without transformer) (continued) 	SPST-NO + SPST-NC	6 VDC	A22L-C□-6D-11M	A22L-C□-6D-11A	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue)
		6 VAC	A22L-C□-6A-11M	A22L-C□-6A-11A	
		12 VAC/DC	A22L-C□-12A-11M	A22L-C□-12A-11A	
		24 VAC/DC	A22L-C□-24A-11M	A22L-C□-24A-11A	
	DPST-NO	6 VDC	A22L-C□-6D-20M	A22L-C□-6D-20A	
		6 VAC	A22L-C□-6A-20M	A22L-C□-6A-20A	
		12 VAC/DC	A22L-C□-12A-20M	A22L-C□-12A-20A	
		24 VAC/DC	A22L-C□-24A-20M	A22L-C□-24A-20A	
	DPST-NC	6 VDC	A22L-C□-6D-02M	A22L-C□-6D-02A	
		6 VAC	A22L-C□-6A-02M	A22L-C□-6A-02A	
		12 VAC/DC	A22L-C□-12A-02M	A22L-C□-12A-02A	
		24 VAC/DC	A22L-C□-24A-02M	A22L-C□-24A-02A	
Square extended LED lighting (with transformer) 	SPST-NO	110 VAC	A22L-C□-T1-10M	A22L-C□-T1-10A	
		220 VAC	A22L-C□-T2-10M	A22L-C□-T2-10A	
	SPST-NC	110 VAC	A22L-C□-T1-01M	A22L-C□-T1-01A	
		220 VAC	A22L-C□-T2-01M	A22L-C□-T2-01A	
	SPST-NO + SPST-NC	110 VAC	A22L-C□-T1-11M	A22L-C□-T1-11A	
		220 VAC	A22L-C□-T2-11M	A22L-C□-T2-11A	
	DPST-NO	110 VAC	A22L-C□-T1-20M	A22L-C□-T1-20A	
		220 VAC	A22L-C□-T2-20M	A22L-C□-T2-20A	
	DPST-NC	110 VAC	A22L-C□-T1-02M	A22L-C□-T1-02A	
		220 VAC	A22L-C□-T2-02M	A22L-C□-T2-02A	
Square full-guard LED lighting (without transformer) 	SPST-NO	6 VDC	A22L-D□-6D-10M	A22L-D□-6D-10A	
		6 VAC	A22L-D□-6A-10M	A22L-D□-6A-10A	
		12 VAC/DC	A22L-D□-12A-10M	A22L-D□-12A-10A	
		24 VAC/DC	A22L-D□-24A-10M	A22L-D□-24A-10A	
	SPST-NC	6 VDC	A22L-D□-6D-01M	A22L-D□-6D-01A	
		6 VAC	A22L-D□-6A-01M	A22L-D□-6A-01A	
		12 VAC/DC	A22L-D□-12A-01M	A22L-D□-12A-01A	
		24 VAC/DC	A22L-D□-24A-01M	A22L-D□-24A-01A	
	SPST-NO + SPST-NC	6 VDC	A22L-D□-6D-11M	A22L-D□-6D-11A	
		6 VAC	A22L-D□-6A-11M	A22L-D□-6A-11A	
		12 VAC/DC	A22L-D□-12A-11M	A22L-D□-12A-11A	
		24 VAC/DC	A22L-D□-24A-11M	A22L-D□-24A-11A	
	DPST-NO	6 VDC	A22L-D□-6D-20M	A22L-D□-6D-20A	
		6 VAC	A22L-D□-6A-20M	A22L-D□-6A-20A	
		12 VAC/DC	A22L-D□-12A-20M	A22L-D□-12A-20A	
		24 VAC/DC	A22L-D□-24A-20M	A22L-D□-24A-20A	
	DPST-NC	6 VDC	A22L-D□-6D-02M	A22L-D□-6D-02A	
		6 VAC	A22L-D□-6A-02M	A22L-D□-6A-02A	
		12 VAC/DC	A22L-D□-12A-02M	A22L-D□-12A-02A	
		24 VAC/DC	A22L-D□-24A-02M	A22L-D□-24A-02A	
Square full-guard LED lighting (with transformer) 	SPST-NO	110 VAC	A22L-D□-T1-10M	A22L-D□-T1-10A	
		220 VAC	A22L-D□-T2-10M	A22L-D□-T2-10A	
	SPST-NC	110 VAC	A22L-D□-T1-01M	A22L-D□-T1-01A	
		220 VAC	A22L-D□-T2-01M	A22L-D□-T2-01A	
	SPST-NO + SPST-NC	110 VAC	A22L-D□-T1-11M	A22L-D□-T1-11A	
		220 VAC	A22L-D□-T2-11M	A22L-D□-T2-11A	
	DPST-NO	110 VAC	A22L-D□-T1-20M	A22L-D□-T1-20A	
		220 VAC	A22L-D□-T2-20M	A22L-D□-T2-20A	
	DPST-NC	110 VAC	A22L-D□-T1-02M	A22L-D□-T1-02A	
		220 VAC	A22L-D□-T2-02M	A22L-D□-T2-02A	

Selector Switches

Non-illuminated Knob Type

Appearance	Positions	Operating method	Contacts	Part number	Operator color
Knob 	2 positions	Maintained 	SPST-NO	A22S-2M-10	Black
			SPST-NC	A22S-2M-01	
			SPST-NO + SPST-NC	A22S-2M-11	
			DPST-NO	A22S-2M-20	
			DPST-NC	A22S-2M-02	
		Spring return 	SPST-NO	A22S-2A-10	
			SPST-NC	A22S-2A-01	
			SPST-NO + SPST-NC	A22S-2A-11	
			DPST-NO	A22S-2A-20	
			DPST-NC	A22S-2A-02	
	3 positions	Maintained 	SPST-NO + SPST-NC	A22S-3M-11	
			DPST-NO	A22S-3M-20	
			DPST-NC	A22S-3M-02	
		Spring return 	SPST-NO + SPST-NC	A22S-3A-11	
			DPST-NO	A22S-3A-20	
			DPST-NC	A22S-3A-02	
Extended lever knob 	2 positions	Maintained 	SPST-NO	A22S-C2M-10	
			SPST-NC	A22S-C2M-01	
			SPST-NO + SPST-NC	A22S-C2M-11	
			DPST-NO	A22S-C2M-20	
			DPST-NC	A22S-C2M-02	
		Spring return 	SPST-NO	A22S-C2A-10	
			SPST-NC	A22S-C2A-01	
			SPST-NO + SPST-NC	A22S-C2A-11	
			DPST-NO	A22S-C2A-20	
			DPST-NC	A22S-C2A-02	
	3 positions	Maintained 	SPST-NO + SPST-NC	A22S-C3M-11	
			DPST-NO	A22S-C3M-20	
			DPST-NC	A22S-C3M-02	
		Spring return 	SPST-NO + SPST-NC	A22S-C3A-11	
			DPST-NO	A22S-C3A-20	
			DPST-NC	A22S-C3A-02	

Illuminated Knob Type

Appearance	Positions	Operating method	Contacts	Rated voltage	Part number	Operator color
Knob LED lighting (without transformer) 	2 positions	Maintained 	SPST-NO	6 VDC	A22W-2M□-6D-10	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) A (blue)
				6 VAC	A22W-2M□-6A-10	
				12 VAC/DC	A22W-2M□-12A-10	
				24 VAC/DC	A22W-2M□-24A-10	
			SPST-NC	6 VDC	A22W-2M□-6D-01	
				6 VAC	A22W-2M□-6A-01	
				12 VAC/DC	A22W-2M□-12A-01	
				24 VAC/DC	A22W-2M□-24A-01	
			SPST-NO + SPST-NC	6 VDC	A22W-2M□-6D-11	
				6 VAC	A22W-2M□-6A-11	
				12 VAC/DC	A22W-2M□-12A-11	
				24 VAC/DC	A22W-2M□-24A-11	
			DPST-NO	6 VDC	A22W-2M□-6D-20	
				6 VAC	A22W-2M□-6A-20	
				12 VAC/DC	A22W-2M□-12A-20	
				24 VAC/DC	A22W-2M□-24A-20	
			DPST-NC	6 VDC	A22W-2M□-6D-02	
				6 VAC	A22W-2M□-6A-02	
				12 VAC/DC	A22W-2M□-12A-02	
				24 VAC/DC	A22W-2M□-24A-02	

Note: Refer to page 11 for contact configurations.

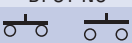
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Selector Switches

Illuminated Knob Type (continued)

Appearance	Positions	Operating method	Contacts	Rated voltage	Part number	Operator color
Knob LED lighting (without transformer) (continued) 	2 positions	Spring return 	SPST-NO	6 VDC	A22W-2A□-6D-10	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) A (blue)
				6 VAC	A22W-2A□-6A-10	
				12 VAC/DC	A22W-2A□-12A-10	
				24 VAC/DC	A22W-2A□-24A-10	
			SPST-NC	6 VDC	A22W-2A□-6D-01	
				6 VAC	A22W-2M□-6A-01	
				12 VAC/DC	A22W-2A□-12A-01	
				24 VAC/DC	A22W-2A□-24A-01	
			SPST-NO + SPST-NC	6 VDC	A22W-2A□-6D-11	
				6 VAC	A22W-2A□-6A-11	
				12 VAC/DC	A22W-2A□-12A-11	
				24 VAC/DC	A22W-2A□-24A-11	
			DPST-NO	6 VDC	A22W-2A□-6D-20	
				6 VAC	A22W-2A□-6A-20	
				12 VAC/DC	A22W-2A□-12A-20	
				24 VAC/DC	A22W-2A□-24A-20	
			DPST-NC	6 VDC	A22W-2A□-6D-02	
				6 VAC	A22W-2A□-6A-02	
				12 VAC/DC	A22W-2A□-12A-02	
				24 VAC/DC	A22W-2A□-24A-02	
Knob LED lighting (without transformer) 	3 positions	Maintained 	SPST-NO + SPST-NC	6 VDC	A22W-3M□-6D-11	
				6 VAC	A22W-3M□-6A-11	
				12 VAC/DC	A22W-3M□-12A-11	
				24 VAC/DC	A22W-3M□-24A-11	
			DPST-NO	6 VDC	A22W-3M□-6D-20	
				6 VAC	A22W-3M□-6A-20	
				12 VAC/DC	A22W-3M□-12A-20	
				24 VAC/DC	A22W-3M□-24A-20	
			DPST-NC	6 VDC	A22W-3M□-6D-02	
				6 VAC	A22W-3M□-6A-02	
				12 VAC/DC	A22W-3M□-12A-02	
				24 VAC/DC	A22W-3M□-24A-02	
		Spring return 	SPST-NO + SPST-NC	6 VDC	A22W-3A□-6D-11	
				6 VAC	A22W-3A□-6A-11	
				12 VAC/DC	A22W-3A□-12A-11	
				24 VAC/DC	A22W-3A□-24A-11	
			DPST-NO	6 VDC	A22W-3A□-6D-20	
				6 VAC	A22W-3A□-6A-20	
				12 VAC/DC	A22W-3A□-12A-20	
				24 VAC/DC	A22W-3A□-24A-20	
			DPST-NC	6 VDC	A22W-3A□-6D-02	
				6 VAC	A22W-3A□-6A-02	
				12 VAC/DC	A22W-3A□-12A-02	
				24 VAC/DC	A22W-3A□-24A-02	

Contact Configurations for Selector Switches

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
					
					
					

Selector Switches

Illuminated Knob Type (continued)

Appearance	Positions	Operating method	Contacts	Rated voltage	Part number	Operator color
Knob LED lighting (with transformer) 	2 positions	Maintained 	SPST-NO	110 VAC	A22W-2M□-T1-10	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) A (blue)
				220 VAC	A22W-2M□-T2-10	
			SPST-NC	110 VAC	A22W-2M□-T1-01	
				220 VAC	A22W-2M□-T2-01	
			SPST-NO + SPST-NC	110 VAC	A22W-2M□-T1-11	
				220 VAC	A22W-2M□-T2-11	
			DPST-NO	110 VAC	A22W-2M□-T1-20	
				220 VAC	A22W-2M□-T2-20	
			DPST-NC	110 VAC	A22W-2M□-T1-02	
				220 VAC	A22W-2M□-T2-02	
		Spring return 	SPST-NO	110 VAC	A22W-2A□-T1-10	
				220 VAC	A22W-2A□-T2-10	
			SPST-NC	110 VAC	A22W-2A□-T1-01	
				220 VAC	A22W-2A□-T2-01	
			SPST-NO + SPST-NC	110 VAC	A22W-2A□-T1-11	
				220 VAC	A22W-2A□-T2-11	
			DPST-NO	110 VAC	A22W-2A□-T1-20	
				220 VAC	A22W-2A□-T2-20	
			DPST-NC	110 VAC	A22W-2A□-T1-02	
				220 VAC	A22W-2A□-T2-02	
Knob LED lighting (with transformer) 	3 positions	Maintained 	SPST-NO + SPST-NC	110 VAC	A22W-3M□-T1-11	
				220 VAC	A22W-3M□-T2-11	
			DPST-NO	110 VAC	A22W-3M□-T1-20	
				220 VAC	A22W-3M□-T2-20	
			DPST-NC	110 VAC	A22W-3M□-T1-02	
				220 VAC	A22W-3M□-T2-02	
		Spring return 	SPST-NO + SPST-NC	110 VAC	A22W-3A□-T1-11	
				220 VAC	A22W-3A□-T2-11	
			DPST-NO	110 VAC	A22W-3A□-T1-20	
				220 VAC	A22W-3A□-T2-20	
			DPST-NC	110 VAC	A22W-3A□-T1-02	
				220 VAC	A22W-3A□-T2-02	

Non-illuminated Key type

Appearance	Positions	Operator type	Contacts	Key release position	Part number	Color of operational unit
Key 	2 positions	Maintained 	SPST-NO		A22K-2ML-10	Black
					A22K-2M-10	
			SPST-NC		A22K-2ML-01	
					A22K-2M-01	
			SPST-NO + SPST-NC		A22K-2ML-11	
					A22K-2M-11	
			DPST-NO		A22K-2ML-20	
					A22K-2M-20	
			DPST-NC		A22K-2ML-02	
					A22K-2M-02	

Note: Refer to page 11 for contact configurations.

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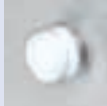
Selector Switches

Non-illuminated Key Type (continued)

Appearance	Positions	Operator type	Contacts	Key release position	Part number	Color of operational unit
Key (continued) 	2 positions	Spring return 	SPST-NO		A22K-2AL-10	Black
			SPST-NC		A22K-2AL-01	
			SPST-NO + SPST-NC		A22K-2AL-11	
			DPST-NO		A22K-2AL-20	
			DPST-NC		A22K-2AL-02	
	3 positions	Maintained 	SPST-NO + SPST-NC		A22K-3ML-11	
					A22K-3M-11	
					A22K-3MC-11	
			DPST-NO		A22K-3ML-20	
					A22K-3M-20	
					A22K-3MC-20	
			DPST-NC		A22K-3ML-02	
					A22K-3M-02	
					A22K-3MC-02	
		Spring return 	SPST-NO + SPST-NC		A22K-3AC-11	
			DPST-NO		A22K-3AC-20	
			DPST-NC		A22K-3AC-02	

Note: Refer to page 11 for contact configurations.

Illuminated Pilot Light

Appearance	Lighting	Rated voltage	Part number	Operator color
Round/Flush without transformer 	LED	6 VDC	M22-F□-6D	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue)
		6 VAC	M22-F□-6A	
		12 VAC/DC	M22-F□-12A	
		24 VAC/DC	M22-F□-24A	
Round/Flush with transformer 	LED	110 VAC	M22-F□-T1	
		220 VAC	M22-F□-T2	
Square/Extended without transformer 	LED	6 VDC	M22-C□-6D	
		6 VAC	M22-C□-6A	
		12 VAC/DC	M22-C□-12A	
		24 VAC/DC	M22-C□-24A	
Square/Extended with transformer 	LED	110 VAC	M22-C□-T1	
		220 VAC	M22-C□-T2	

Note: To order incandescent versions of the M22 Pilot Light, replace the part number suffix (i.e., 12A, 24A, T1) with the appropriate code from the table below.
Example: M22-FR-24 is a red, round indicator with 24 VAC incandescent light source.

Incandescent Light Source

Code	Rated Voltage
5	5 VAC
12	12VAC
24	24 VAC
HI	110 VAC

Emergency Stop Switches

Non-illuminated Push-lock - Pull-reset, Turn-reset, and Key-reset Types

Appearance	Output	Part number	Color of cap
40 mm dia. head push-lock, pull-reset 	SPST-NC	A22E-MP-01	Red
	SPST-NO + SPST-NC	A22E-MP-11	
	DPST-NC	A22E-MP-02	
60 mm dia. head push-lock, pull-reset 	SPST-NC	A22E-LP-01	
	SPST-NO + SPST-NC	A22E-LP-11	
	DPST-NC	A22E-LP-02	
30 mm dia. head push-lock, turn-reset 	SPST-NC	A22E-S-01	
	SPST-NO + SPST-NC	A22E-S-11	
	DPST-NC	A22E-S-02	
40 mm dia. head push-lock, turn-reset 	SPST-NC	A22E-M-01	
	SPST-NO + SPST-NC	A22E-M-11	
	DPST-NC	A22E-M-02	
60 mm dia. head push-lock, turn-reset 	SPST-NC	A22E-L-01	
	SPST-NO + SPST-NC	A22E-L-11	
	DPST-NC	A22E-L-02	
30 mm dia. head push-lock, key-reset 	SPST-NC	A22E-SK-01	
	SPST-NO + SPST-NC	A22E-SK-11	
	DPST-NC	A22E-SK-02	
40 mm dia. head push-lock, key-reset 	SPST-NC	A22E-MK-01	
	SPST-NO + SPST-NC	A22E-MK-11	
	DPST-NC	A22E-MK-02	

Illuminated Push-lock, Turn-reset Type

Appearance	Output	Rated voltage	Part number	Color of cap
40 mm dia. head push-lock, turn-reset LED lighting 	SPST-NC	6 VDC	A22EL-M-6D-01	Red
		6 VAC/DC	A22EL-M-6A-01	
		12 VAC/DC	A22EL-M-12A-01	
		24 VAC/DC	A22EL-M-24A-01	
	SPST-NO + SPST-NC	6 VDC	A22EL-M-6D-11	
		6 VAC/DC	A22EL-M-6A-11	
		12 VAC/DC	A22EL-M-12A-11	
		24 VAC/DC	A22EL-M-24A-11	
	DPST-NC	6 VDC	A22EL-M-6D-02	
		6 VAC/DC	A22EL-M-6A-02	
		12 VAC/DC	A22EL-M-12A-02	
		24 VAC/DC	A22EL-M-24A-02	
40 mm dia. head push-lock, turn-reset with transformer LED lighting 	SPST-NC	110 VAC	A22EL-M-T1-01	
		220 VAC	A22EL-M-T2-01	
	SPST-NO + SPST-NC	110 VAC	A22EL-M-T1-11	
		220 VAC	A22EL-M-T2-11	
	DPST-NC	110 VAC	A22EL-M-T1-02	
		220 VAC	A22EL-M-T2-02	

Accessories

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
				Microload		A22-10S
			SPST-NC	General-purpose load		A22-01
				Microload		A22-01S
			SPST-NO/SPST-NC	General-purpose load		A22-11
			DPST-NO	General-purpose load		A22-20
				Microload		A22-20S
				DPST-NC		General-purpose load
		Microload		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.	A22Z-3580
		For full-guard models		Material: nickel-plated zinc.	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 25 mm 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

Accessories

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)	I		A22Z-3460-1
				○		A22Z-3460-2
				START		A22Z-3460-3
			STOP	A22Z-3460-4		
			No print (Square)		A22Z-3480	
Lamp extractor					Rubber tool used to easily replace lamps.	A22Z-3901
Tightening wrench					Tool used to tighten nuts from the back of the panel.	A22Z-3905
Lens tightening tool					Used for replacing the cap of the half-guard pushbutton switch.	A22Z-3908
Lens puller					Used for removing the lens from the indicator of the square illuminated pushbutton switch.	A3PJ-5080

Enclosures



Material	Hole size	Number of holes	Part number
Metallic	22.5 mm (0.88 in)	1	A22N-MENC-1
		2	A22N-MENC-2
		3	A22N-MENC-3
		4	A22N-MENC-4
		6	A22N-MENC-6
		9	A22N-MENC-9
		12	A22N-MENC-12
		16	A22N-MENC-16
Polyester	22.5 mm (0.88 in)	1	A22N-PENC-1
		2	A22N-PENC-2
		3	A22N-PENC-3

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.

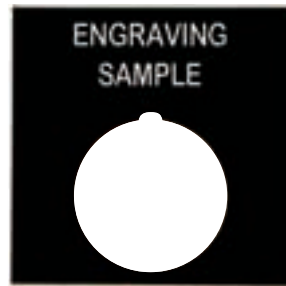
All plastic nameplates are adhesive backed for easy, permanent installation.

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

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

A22N-_____
Number from table below

Code	Material/Shape	Code	Material/Shape	Code	Material/Shape	Code	Material/Shape
PR	Plastic Rectangular	PS	Plastic Square	PX	Plastic Shield	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-1-2
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-REMOTE	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

Custom Engraved Nameplates _____ Order Form

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: _____

P.O.# _____

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	_____	A	B	C	D	QUANTITY
Nameplate Color	_____	Black	Yellow	Red	White	
Text Color	_____	Black	White			

Shape	_____	A	B	C	D	QUANTITY
Nameplate Color	_____	Black	Yellow	Red	White	
Text Color	_____	Black	White			

Shape	_____	A	B	C	D	QUANTITY
Nameplate Color	_____	Black	Yellow	Red	White	
Text Color	_____	Black	White			

Shape	_____	A	B	C	D	QUANTITY
Nameplate Color	_____	Black	Yellow	Red	White	
Text Color	_____	Black	White			

Pushbutton Switches

Non-illuminated Pushbutton

Appearance		Contacts	Part number				Operator color
			Momentary operation		Maintained operation		
			Enclosed (IP40)	Oiltight (IP65)	Enclosed (IP40)	Oiltight (IP65)	
Round		SPDT	A16-T□M-1	A165-T□M-1	A16-T□A-1	A165-T□A-1	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue) B (black)
		DPDT	A16-T□M-2	A165-T□M-2	A16-T□A-2	A165-T□A-2	
Square		SPDT	A16-A□M-1	A165-A□M-1	A16-A□A-1	A165-A□A-1	
		DPDT	A16-A□M-2	A165-A□M-2	A16-A□A-2	A165-A□A-2	
Rectangular		SPDT	A16-J□M-1	A165-J□M-1	A16-J□A-1	A165-J□A-1	
		DPDT	A16-J□M-2	A165-J□M-2	A16-J□A-2	A165-J□A-2	

Illuminated Pushbutton

Appearance	Illumination method	Voltage	Contacts	Part number				Operator color
				Momentary operation		Maintained operation		
				Enclosed (IP40)	Oiltight (IP65)	Enclosed (IP40)	Oiltight (IP65)	
	LED (DC)	5 V	SPDT	A16L-T□M-5D-1	A165L-T□M-5D-1	A16L-T□A-5D-1	A165L-T□A-5D-1	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue)
		12 V		A16L-T□M-12D-1	A165L-T□M-12D-1	A16L-T□A-12D-1	A165L-T□A-12D-1	
		24 V		A16L-T□M-24D-1	A165L-T□M-24D-1	A16L-T□A-24D-1	A165L-T□A-24D-1	
	Incandescent lamp (AC/DC)	5 V		A16L-T□M-5-1	A165L-T□M-5-1	A16L-T□A-5-1	A165L-T□A-5-1	
		12 V		A16L-T□M-12-1	A165L-T□M-12-1	A16L-T□A-12-1	A165L-T□A-12-1	
		24 V		A16L-T□M-24-1	A165L-T□M-24-1	A16L-T□A-24-1	A165L-T□A-24-1	
	LED (DC)	5 V	DPDT	A16L-T□M-5D-2	A165L-T□M-5D-2	A16L-T□A-5D-2	A165L-T□A-5D-2	
		12 V		A16L-T□M-12D-2	A165L-T□M-12D-2	A16L-T□A-12D-2	A165L-T□A-12D-2	
		24 V		A16L-T□M-24D-2	A165L-T□M-24D-2	A16L-T□A-24D-2	A165L-T□A-24D-2	
	Incandescent lamp (AC/DC)	5 V		A16L-T□M-5-2	A165L-T□M-5-2	A16L-T□A-5-2	A165L-T□A-5-2	
		12 V		A16L-T□M-12-2	A165L-T□M-12-2	A16L-T□A-12-2	A165L-T□A-12-2	
		24 V		A16L-T□M-24-2	A165L-T□M-24-2	A16L-T□A-24-2	A165L-T□A-24-2	
	LED (DC)	5 V	SPDT	A16L-A□M-5D-1	A165L-A□M-5D-1	A16L-A□A-5D-1	A165L-A□A-5D-1	
		12 V		A16L-A□M-12D-1	A165L-A□M-12D-1	A16L-A□A-12D-1	A165L-A□A-12D-1	
		24 V		A16L-A□M-24D-1	A165L-A□M-24D-1	A16L-A□A-24D-1	A165L-A□A-24D-1	
	Incandescent lamp (AC/DC)	5 V		A16L-A□M-5-1	A165L-A□M-5-1	A16L-A□A-5-1	A165L-A□A-5-1	
		12 V		A16L-A□M-12-1	A165L-A□M-12-1	A16L-A□A-12-1	A165L-A□A-12-1	
		24 V		A16L-A□M-24-1	A165L-A□M-24-1	A16L-A□A-24-1	A165L-A□A-24-1	
	LED (DC)	5 V	DPDT	A16L-A□M-5D-2	A165L-A□M-5D-2	A16L-A□A-5D-2	A165L-A□A-5D-2	
		12 V		A16L-A□M-12D-2	A165L-A□M-12D-2	A16L-A□A-12D-2	A165L-A□A-12D-2	
		24 V		A16L-A□M-24D-2	A165L-A□M-24D-2	A16L-A□A-24D-2	A165L-A□A-24D-2	
	Incandescent lamp (AC/DC)	5 V		A16L-A□M-5-2	A165L-A□M-5-2	A16L-A□A-5-2	A165L-A□A-5-2	
		12 V		A16L-A□M-12-2	A165L-A□M-12-2	A16L-A□A-12-2	A165L-A□A-12-2	
		24 V		A16L-A□M-24-2	A165L-A□M-24-2	A16L-A□A-24-2	A165L-A□A-24-2	
	LED (DC)	5 V	SPDT	A16L-J□M-5D-1	A165L-J□M-5D-1	A16L-J□A-5D-1	A165L-J□A-5D-1	
		12 V		A16L-J□M-12D-1	A165L-J□M-12D-1	A16L-J□A-12D-1	A165L-J□A-12D-1	
		24 V		A16L-J□M-24D-1	A165L-J□M-24D-1	A16L-J□A-24D-1	A165L-J□A-24D-1	
	Incandescent lamp (AC/DC)	5 V		A16L-J□M-5-1	A165L-J□M-5-1	A16L-J□A-5-1	A165L-J□A-5-1	
		12 V		A16L-J□M-12-1	A165L-J□M-12-1	A16L-J□A-12-1	A165L-J□A-12-1	
		24 V		A16L-J□M-24-1	A165L-J□M-24-1	A16L-J□A-24-1	A165L-J□A-24-1	
	LED (DC)	5 V	DPDT	A16L-J□M-5D-2	A165L-J□M-5D-2	A16L-J□A-5D-2	A165L-J□A-5D-2	
		12 V		A16L-J□M-12D-2	A165L-J□M-12D-2	A16L-J□A-12D-2	A165L-J□A-12D-2	
		24 V		A16L-J□M-24D-2	A165L-J□M-24D-2	A16L-J□A-24D-2	A165L-J□A-24D-2	
	Incandescent lamp (AC/DC)	5 V		A16L-J□M-5-2	A165L-J□M-5-2	A16L-J□A-5-2	A165L-J□A-5-2	
		12 V		A16L-J□M-12-2	A165L-J□M-12-2	A16L-J□A-12-2	A165L-J□A-12-2	
		24 V		A16L-J□M-24-2	A165L-J□M-24-2	A16L-J□A-24-2	A165L-J□A-24-2	

Note: To order illuminated pushbuttons with 110 VAC transformer, replace the voltage code (5, 12, 24, 5D, 12D, 24D) with T1 for 110 VAC or T2 for 220 VAC. The secondary voltage of the transformer is always 24 VDC.

Selector Switches

Non-illuminated Knob Type

Appearance	Positions	Contacts	Reset method	Part number	Operator color
Round 	2 positions	SPDT	Maintained Spring return (right)	A165S-T2M-1 A165S-T2A-1	Black
		DPDT	Maintained Spring return (right)	A165S-T2M-2 A165S-T2A-2	
	3 positions	DPDT	Maintained Spring return (both)	A165S-T3M-2 A165S-T3A-2	
Square 	2 positions	SPDT	Maintained Spring return (right)	A165S-A2M-1 A165S-A2A-1	
		DPDT	Maintained Spring return (right)	A165S-A2M-2 A165S-A2A-2	
	3 positions	DPDT	Maintained Spring return (both)	A165S-A3M-2 A165S-A3A-2	
Rectangular 	2 positions	SPDT	Maintained Spring return (right)	A165S-J2M-1 A165S-J2A-1	
		DPDT	Maintained Spring return (right)	A165S-J2M-2 A165S-J2A-2	
	3 positions	DPDT	Maintained Spring return (both)	A165S-J3M-2 A165S-J3A-2	

Illuminated Knob Type (2-Position)

Appearance	Type	Rated voltage	Contacts	Part number		Operator color
				Maintained	Spring return from right	
Round 	Full voltage LED (DC)	5 VDC	SPDT	A165W-T2M□-5D-1	A165W-T2A□-5D-1	Insert one of the following letters into the box □. R (red) Y (yellow) G (green)
		12 VDC		A165W-T2M□-12D-1	A165W-T2A□-12D-1	
		24 VDC		A165W-T2M□-24D-1	A165W-T2A□-24D-1	
	Transformer 24 V Secondary	110 VAC		A165W-T2M□-T1-1	A165W-T2A□-T1-1	
		220 VAC		A165W-T2M□-T2-1	A165W-T2A□-T2-1	
	Full voltage LED (DC)	5 VDC	DPDT	A165W-T2M□-5D-2	A165W-T2A□-5D-2	
		12 VDC		A165W-T2M□-12D-2	A165W-T2A□-12D-2	
		24 VDC		A165W-T2M□-24D-2	A165W-T2A□-24D-2	
Square 	Full voltage LED (DC)	5 VDC	SPDT	A165W-A2M□-5D-1	A165W-A2A□-5D-1	
		12 VDC		A165W-A2M□-12D-1	A165W-A2A□-12D-1	
		24 VDC		A165W-A2M□-24D-1	A165W-A2A□-24D-1	
	Transformer 24 V Secondary	110 VAC		A165W-A2M□-T1-1	A165W-A2A□-T1-1	
		220 VAC		A165W-A2M□-T2-1	A165W-A2A□-T2-1	
	Full voltage LED (DC)	5 VDC	DPDT	A165W-A2M□-5D-2	A165W-A2A□-5D-2	
		12 VDC		A165W-A2M□-12D-2	A165W-A2A□-12D-2	
		24 VDC		A165W-A2M□-24D-2	A165W-A2A□-24D-2	
Rectangular 	Full voltage LED (DC)	5 VDC	SPDT	A165W-J2M□-5D-1	A165W-J2A□-5D-1	
		12 VDC		A165W-J2M□-12D-1	A165W-J2A□-12D-1	
		24 VDC		A165W-J2M□-24D-1	A165W-J2A□-24D-1	
	Transformer 24 V Secondary	110 VAC		A165W-J2M□-T1-1	A165W-J2A□-T1-1	
		220 VAC		A165W-J2M□-T2-1	A165W-J2A□-T2-1	
	Full voltage LED (DC)	5 VDC	DPDT	A165W-J2M□-5D-2	A165W-J2A□-5D-2	
		12 VDC		A165W-J2M□-12D-2	A165W-J2A□-12D-2	
		24 VDC		A165W-J2M□-24D-2	A165W-J2A□-24D-2	
	Transformer 24 V Secondary	110 VAC		A165W-J2M□-T1-2	A165W-J2A□-T1-2	
		220 VAC		A165W-J2M□-T2-2	A165W-J2A□-T2-2	

Note: Refer to page 23 for contact configurations.

Selector Switches

Illuminated Knob Type (3-Position)

Appearance	Type	Rated voltage	Contacts	Part number		Operator color
				Maintained	Spring return from right	
Round 	Full voltage LED (DC)	5 VDC	DPDT	A165W-T3M□-5D-2	A165W-T3A□-5D-2	Insert one of the following letters into the box □. R (red) Y (yellow) G (green)
		12 VDC		A165W-T3M□-12D-2	A165W-T3A□-12D-2	
		24 VDC		A165W-T3M□-24D-2	A165W-T3A□-24D-2	
	Transformer 24 V Secondary	110 VAC		A165W-T3M□-T1-2	A165W-T3A□-T1-2	
		220 VAC		A165W-T3M□-T2-2	A165W-T3A□-T2-2	
Square 	Full voltage LED (DC)	5 VDC	DPDT	A165W-A3M□-5D-2	A165W-A3A□-5D-2	
		12 VDC		A165W-A3M□-12D-2	A165W-A3A□-12D-2	
		24 VDC		A165W-A3M□-24D-2	A165W-A3A□-24D-2	
	Transformer 24 V Secondary	110 VAC		A165W-A3M□-T1-2	A165W-A3A□-T1-2	
		220 VAC		A165W-A3M□-T2-2	A165W-A3A□-T2-2	
Rectangular 	Full voltage LED (DC)	5 VDC	DPDT	A165W-J3M□-5D-2	A165W-J3A□-5D-2	
		12 VDC		A165W-J3M□-12D-2	A165W-J3A□-12D-2	
		24 VDC		A165W-J3M□-24D-2	A165W-J3A□-24D-2	
	Transformer 24 V Secondary	110 VAC		A165W-J3M□-T1-2	A165W-J3A□-T1-2	
		220 VAC		A165W-J3M□-T2-2	A165W-J3A□-T2-2	

Non-illuminated Key Type

Appearance	Positions	Contacts	Reset method	Key release position	Part number
Round 	2 positions	SPDT	Maintained	Left	A165K-T2ML-1
				Right	A165K-T2MR-1
			Spring return (right)	All	A165K-T2M-1
				Left	A165K-T2AL-1
		DPDT	Maintained	Left	A165K-T2ML-2
				Right	A165K-T2MR-2
			Spring return (right)	All	A165K-T2M-2
				Left	A165K-T2AL-2
	3 positions	DPDT	Maintained	Center	A165K-T3MC-2
				Right	A165K-T3MR-2
				Left	A165K-T3ML-2
				All	A165K-T3M-2
Spring return (both)			Center	A165K-T3AC-2	
			Right	A165K-T3MR-2	
			Left	A165K-T3ML-2	
			All	A165K-T3M-2	
Square 	2 positions	SPDT	Maintained	Left	A165K-A2ML-1
				Right	A165K-A2MR-1
			Spring return (right)	All	A165K-A2M-1
				Left	A165K-A2AL-1
		DPDT	Maintained	Left	A165K-A2ML-2
				Right	A165K-A2MR-2
			Spring return (right)	All	A165K-A2M-2
				Left	A165K-A2AL-2
	3 positions	DPDT	Maintained	Center	A165K-A3MC-2
				Right	A165K-A3MR-2
				Left	A165K-A3ML-2
				All	A165K-A3M-2
Spring return (both)			Center	A165K-A3AC-2	
			Right	A165K-A3MR-2	
			Left	A165K-A3ML-2	
			All	A165K-A3M-2	
Rectangular 	2 positions	SPDT	Maintained	Left	A165K-J2ML-1
				Right	A165K-J2MR-1
			Spring return (right)	All	A165K-J2M-1
				Left	A165K-J2AL-1
		DPDT	Maintained	Left	A165K-J2ML-2
				Right	A165K-J2MR-2
			Spring return (right)	All	A165K-J2M-2
				Left	A165K-J2AL-2
	3 positions	DPDT	Maintained	Center	A165K-J3MC-2
				Right	A165K-J3MR-2
				Left	A165K-J3ML-2
				All	A165K-J3M-2
Spring return (both)			Center	A165K-J3AC-2	
			Right	A165K-J3MR-2	
			Left	A165K-J3ML-2	
			All	A165K-J3M-2	

Note: Refer to page 23 for contact configurations.

Pilot Lights

Illuminated Pilot Light

Appearance	Type	Voltage	Part number		Operator color
			IP40	IP65 oiltight	
Round 	Full voltage LED (DC)	5 VDC	M16-T□-5D	M165-T□-5D	Insert one of the following letters into the box □. R (red) Y (yellow) G (green) W (white) A (blue)
		12 VDC	M16-T□-12D	M165-T□-12D	
		24 VDC	M16-T□-24D	M165-T□-24D	
	Full voltage incandescent lamp	5 VAC/DC	M16-T□-5	M165-T□-5	
		12 VAC/DC	M16-T□-12	M165-T□-12	
		24 VAC/DC	M16-T□-24	M165-T□-24	
	Transformer 24 V secondary	110 VAC	M16-T□-T1	M165-T□-T1	
		220 VAC	M16-T□-T2	M165-T□-T2	
Square 	Full voltage LED (DC)	5 VDC	M16-A□-5D	M165-A□-5D	
		12 VDC	M16-A□-12D	M165-A□-12D	
		24 VDC	M16-A□-24D	M165-A□-24D	
	Full voltage incandescent lamp	5 VAC/DC	M16-A□-5	M165-A□-5	
		12 VAC/DC	M16-A□-12	M165-A□-12	
		24 VAC/DC	M16-A□-24	M165-A□-24	
	Transformer 24 V secondary	110 VAC	M16-A□-T1	M165-A□-T1	
		220 VAC	M16-A□-T2	M165-A□-T2	
Rectangular 	Full voltage LED (DC)	5 VDC	M16-J□-5D	M165-J□-5D	
		12 VDC	M16-J□-12D	M165-J□-12D	
		24 VDC	M16-J□-24D	M165-J□-24D	
	Full voltage incandescent lamp	5 VAC/DC	M16-J□-5	M165-J□-5	
		12 VAC/DC	M16-J□-12	M165-J□-12	
		24 VAC/DC	M16-J□-24	M165-J□-24	
	Transformer 24 V secondary	110 VAC	M16-J□-T1	M165-J□-T1	
		220 VAC	M16-J□-T2	M165-J□-T2	

Buzzers

Non-illuminated Buzzer

Appearance	Item		Part number					
			Standard sound (80 dB)				High sound (70 - 100 dB)	
Buzzer 	Sound	With jumper	Intermittent	Intermittent (short)	Intermittent (high-pitched)	Intermittent (short, high-pitched)	Intermittent (high-pitched)	Intermittent (short)
		Without jumper	Continuous	Intermittent (long)	Continuous (high-pitched)	Intermittent (long, high-pitched)	Continuous	Intermittent (long)
	Supply voltage	6 VAC/DC	M2BJ-B06	M2BJ-B06A	M2BJ-B06B	M2BJ-B06C	M2BJ-BH06D	M2BJ-BH06E
		12 to 24 VAC/DC	M2BJ-B24	M2BJ-B24A	M2BJ-B24B	M2BJ-B24C	M2BJ-BH24D	M2BJ-BH24E
		12 to 24 DC	M2BJ-B24-D	—	M2BJ-B24B-D	—	M2BJ-BH24D-D	M2BJ-BH24E-D

Emergency Stop Switches

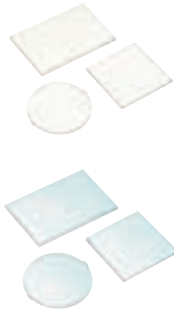
Non-illuminated Push-lock, Turn-reset Systems

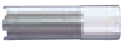
Appearance	Button type	Terminal	Contact type	Part number
Emergency stop 	30 dia. red head	Solder terminal	SPST-NC	A165E-S-01
			DPST-NC	A165E-S-02
			TPST-NC	A165E-S-03U (Unibody construction)
	40 dia. red head	Solder terminal	SPST-NC	A165E-M-01
			DPST-NC	A165E-M-02
			TPST-NC	A165E-M-03U (Unibody construction)

Illuminated Push-lock, Turn-reset Systems

Appearance	Illumination	Rated voltage	Button type	Terminal	Contact type	Part number
Emergency stop 	LED	24 VDC	30 dia. red head	Solder terminal	SPST-NC	A165E-LS-24D-01
					DPST-NC	A165E-LS-24D-02
			40 dia. red head	Solder terminal	SPST-NC	A165E-LM-24D-01
					DPST-NC	A165E-LM-24D-02

Accessories

Item	Appearance	Classification			Remarks	Part number			
Switch guards		Rectangular Square and round			Cannot be used with the dust cover.	A16ZJ-5050 A16ZA-5050			
Dust covers		Rectangular Square Round			Cannot be used with the switch guard.	A16ZJ-5060 A16ZA-5060 A16ZT-5060			
Panel plugs		Rectangular Square Round			Used for covering the panel cutouts for future panel expansion.	A3BJ-3003 A3BA-3003 A3BT-3003			
Legend panels		Rectangular	IP40	Opaque Transparent	A single legend panel (transparent) is included with a standard model. The opaque legend panel can be used with the IP40 and oil-resistant IP65.	A16ZJ-5204 A16ZJ-5202			
			Oil-resistant IP65	Opaque Transparent		A16ZJ-5204 A16ZJ-5203			
		Square	IP40	Opaque Transparent		A16ZA-5204 A16ZA-5202			
			Oil-resistant IP65	Opaque Transparent		A16ZA-5204 A16ZA-5203			
		Round	IP40	Opaque Transparent		A16ZT-5204 A16ZT-5202			
			Oil-resistant IP65	Opaque Transparent		A16ZT-5204 A16ZT-5203			
		Color caps (for IP40)		LED indicator/incandescent lamp/non-illuminated		White Red Yellow	Insert one of the following letters into the box (□). J: Rectangular A: Square T: Round The color cap is supplied. 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 A16Z□-5001R A16Z□-5001Y	
				LED indicator		Green		A16Z□-5001GY	
Incandescent lamp/non-illuminated				Blue Green	A16Z□-5001A A16Z□-5001G				
Non-illuminated				Black	A16Z□-5011B				
Color caps (for oil-resistant IP65)				LED indicator/incandescent lamp/non-illuminated		White Red Yellow		A16Z□-5101W A16Z□-5101R A16Z□-5101Y	
				LED indicator		Green		A16Z□-5101GY	
		Incandescent lamp/non-illuminated		Blue Green	A16Z□-5101A A16Z□-5101G				
		Non-illuminated		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. Tighten to a torque of 0.39 N • m (5 kgf • cm) min.	A16Z-3004
Lamp unit extractor		Yes	Yes	Yes	Yes	Yes	Convenient for extracting the switch unit and lamps.	A16Z-5080

Contact Configurations for Selector Switches

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

2 Position



3 Position



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