Emergency stop pushbutton switches

A22E/A22NE-P/A22NE-PD Series

Standard
Screw Terminal Block Types
A22E Series

Mid-grade
Vibration Resistant
A22NE-P Series

NEW

Premium
Lock detection & Vibration Resistant
A22NE-PD Series

Creating a safer work environment

A variety of functions
for enhanced safety and reliability

Providing additional peace of mind that your machine will stop when you need it to.

An emergency stop pushbutton switch is crucial to the safety of workers. Improper installation of the switch or malfunctioning of the switch can lead to a major accident or damage to the machine equipment. Omron focused on improving the level of reliability and safety of our A22 emergency stop design.

Three available features to enhance reliability

Minimizes Emergency Stop malfunctions

Lock Detection

- Detects improper installations and damage to the lock lever.
- Disconnects switch contacts when lock lever in unlocked or damaged.

Refer to page 4 for details.

Reduces loose and detached wiring

Push-In Plus Terminal Block

- Provides greater vibration resistance and secured wiring.
- Reduces work for wiring and maintenance.
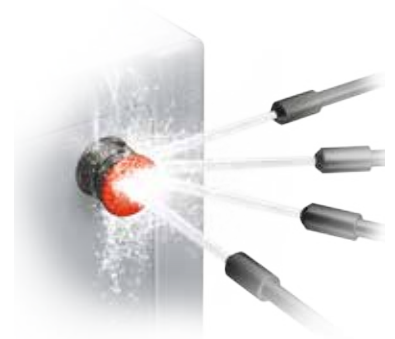
Refer to page 5 for details.

Protected in the harshest environments

Optional IP69K

- Usable up to 80°C and pressures of 80 to 100 BAR.
- Ideal for frequent wash-down applications.

Refer to page 5 for details.

A Lineup That Allows You to Choose According to Your Needs

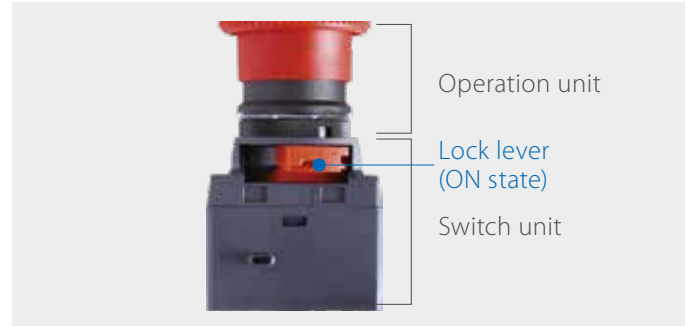| Max Safety and Protection	Vibration Resistant in harsh conditions	Standard E-stop for everyday use
A22NE-PD Series	A22NE-P Series	A22E Series

Accident prevention & reliable operation

Reduce emergency stop malfunctions with the A22NE-PD's Lock Detection Feature

Lock Detection

A22NE-PD Series

Detects improper installations and damage to the lock lever

Operation unit

Lock lever
(ON state)

Switch unit

If the operator unit is not locked in properly to the switch, the emergency stop contacts may not function properly in an event of an emergency. With the Lock Detection feature, the switch detects improper installation and minimizes E-stop failures.
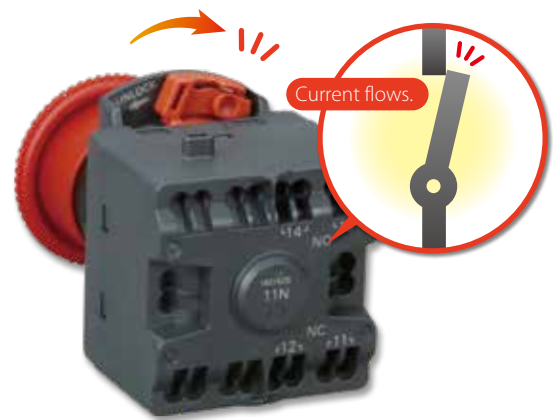
Lock lever OFF

Current is cutoff.

The contact* opens and the current is cutoff.

Machine equipment stops.

Lock lever ON

Current flows.

The contact* closes and the current flows.

Machine equipment operates.

For machine equipment that requires additional safety measures

Ensures the machine equipment has proper emergency shut downs

* The example shows an NC contact. However, all contacts are interlocked with the lock lever, and the statuses of NO contacts are also switched.

Push-In Plus Terminal Block

A22NE-PD/A22NE-P Series

Less wiring time required and greater vibration resistance

Push-in Plus terminals are maintenance-free connections and greatly reduce wiring time compared to the standard screw terminals.

Less wiring work

Just insert wires like you would into an earphone jack. No tools are required.

IEC standard (cable diameter)	Push-In Plus Terminal Bloc	Screw Terminal Block
20 N min (AWG20, 0.5 mm^2)	125 N	112 N

* Information for Push-In Plus Terminal Blocks and screw terminal blocks is based on OMRON's actual measurement value data for the XW2R.
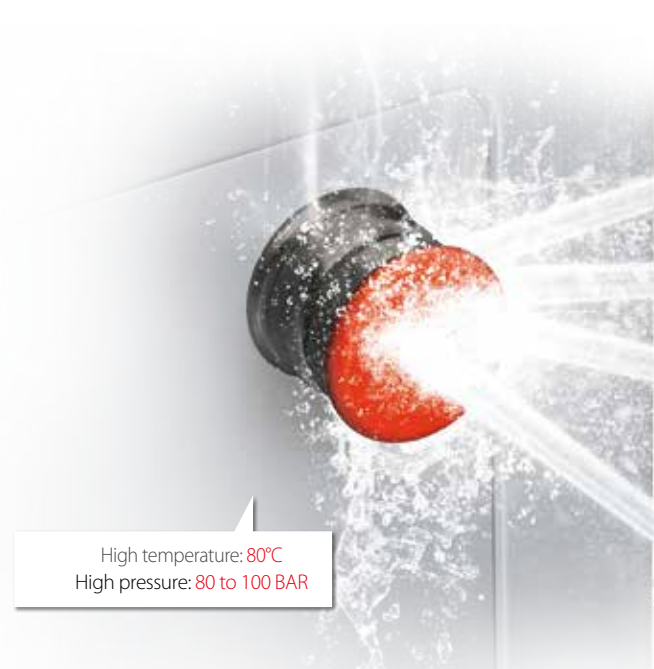
Optional IP69K

A22NE-PD/A22NE-P Series

High level of protection for harsh environments

The IP69K rated emergency stop buttons provides a peace of mind when being used in high wash-down applications. The unique rubber designed cover resists high-temperature and high pressure sprays from any direction.

High temperature: 80℃
High pressure: 80 to 100 BAR

Ordering information

* Sub-assembly parts are also available. Please reference datasheet for individual part numbers.

Part number structure				A22NE- [1] [2] -PD [3] - [4] - [5]
	No.	Type	Code	Meaning
	1	30 mm dia.	S	Operator head size
		40 mm dia.	M	Operator head size
		60 mm dia.	L	Operator head size
	2	Turn-reset	None	Reset function type
		Pull-reset	P	Reset function type
	3	1NC	01	Contact block type
		2NC	02	Contact block type
		1NO/1NC	11	Contact block type
		3NC	03	Contact block type
		2NO/1NC	21	Contact block type
		1NO/2NC	12	Contact block type
		2NO/2NC	22	Contact block type
		1NO/3NC	13	Contact block type
		4NC	04	Contact block type
	4	Non-lighted	N	Lighting type
		24 VAC/VDC LED	C	Lighting type (only available with 40mm operator head)
	5	IP65	None	IP Rating
		IP69K	IP69K	IP Rating

A22NE-PD
Lock Detection
& Push-in Plus Terminals
(Non-removable
contact blocks)

Part number structure				A22NE- [1] [2] -P [3] - [4] - [5]
	No.	Type	Code	Meaning
	1	30 mm dia.	S	Operator head size
		40 mm dia.	M	Operator head size
		60 mm dia.	L	Operator head size
	2	Turn-reset	None	Reset function type
		Pull-reset	P	Reset function type
	3	1NC	002	Contact block type
		1NO/1NC	102	Contact block type
		2NC	202	Contact block type
		1NO/2NC	212	Contact block type
		3NC	222	Contact block type
	4	Non-lighted	N	Lighting type
		6 VAC/DC LED	A	Lighting type (only available with 002,102,202 contact block & 40mm operator head)
		12 VAC/DC LED	B	Lighting type (only available with 002,102,202 contact block & 40mm operator head)
		24 VAC/DC LED	C	Lighting type (only available with 002,102,202 contact block & 40mm operator head)
		100/110/120 VAC LED	D	Lighting type (only available with 002,102,202 contact block & 40mm operator head)
		200/220/230/240 VAC LED	E	Lighting type (only available with 002,102,202 contact block & 40mm operator head)
	5	IP65	None	IP Rating
		IP69K	IP69K	IP Rating
		Control box	B	Switch with integrated control box (only available with 40mm operator head)

A22NE-P
Push-in Plus Terminals
(Removable contact blocks)

Part Number Structure			A22E □1-□2-□3-□4-□5-□6

No.	Type	Code	Meaning
1	Non-lighted	None	Lighting type
1	Lighted	L	Lighting type (only available with 40 mm operator head)
2	30 mm dia./Turn-reset	S	Operator head size/Reset function
2	40 mm dia./Turn-reset	M	Operator head size/Reset function
2	40 mm dia./Pull-reset	MP	Operator head size/Reset function
2	60 mm dia./Turn-reset	L	Operator head size/Reset function
3	Non-lighted	None	Lighting type
3	6 VAC/DC LED	6A	Lighting type (only available with 01,11,02 contact block)
3	12 VAC/DC LED	12A	Lighting type (only available with 01,11,02 contact block)
3	24 VAC/DC LED	24A	Lighting type (only available with 01,11,02 contact block)
3	100 VAC LED	T1	Lighting type (voltage-reduction lighting unit and only available with 01,11,02 contact block)
3	200 VAC LED	T2	Lighting type (voltage-reduction lighting unit and only available with 01,11,02 contact block)
4	1NC	01	Contact block type
4	1NO/1NC	11	Contact block type
4	2NC	02	Contact block type
4	1NO/2NC	12	Contact block type
4	3NC	03	Contact block type
5	Switch assembly	None	Configuration
5	Switch with integrated control box	B	Configuration (only available with 40 mm operator head)
6	Plain operator head	None	Labels on operator head
6	EMO + arrows printed in white	EMO	Labels on operator head
6	EMO printed in white + red arrows	EMO-RD	Labels on operator head
6	EMS + arrows printed in white	EMS	Labels on operator head
6	EMS printed in white + red arrows	EMS-RD	Labels on operator head

A22E
Screw terminals
(Removable contact blocks)

Recommended part numbers

Series	Operator unit size	Lighting	Contact	Reset method	Type	Part number
A22NE-PD Lock Detection & Push-in Plus Terminals	40 mm	None	1NC	Turn-reset	Switch assembly	A22NE-M-PD01-N
		None	2NC	Turn-reset	Switch assembly	A22NE-M-PD02-N
		None	1NO/1NC	Turn-reset	Switch assembly	A22NE-M-PD11-N
		None	1NC	Pull-reset	Switch assembly	A22NE-MP-PD01-N
		None	1NO/1NC	Pull-reset	IP69K Switch assembly	A22NE-MP-PD11-N-69K
A22NE-P Push-in Plus Terminals	40 mm	None	1NC	Turn-reset	Switch assembly	A22NE-M-P002-N
		None	2NC	Turn-reset	Switch assembly	A22NE-M-P202-N
		None	2NC	Turn-reset	Switch with integrated control box	A22NE-M-P202-N-B
A22E Screw Terminals	40 mm	None	1NC	Turn-reset	Switch assembly	A22E-M-01
		None	1NC	Pull-reset	Switch assembly	A22E-MP-01
		24 VAC/DC LED	1NC	Turn-reset	Switch assembly	A22EL-M-24A-01
		24 VAC/DC LED	2NC	Turn-reset	Switch assembly	A22EL-M-24A-02
		24 VAC/DC LED	1NO/1NC	Turn-reset	Switch assembly	A22EL-M-24A-11