OMRON

Key-type Selector Switches

Keyed 22-mm Selector Switches Universal Design. Emphasis on Color Coding, Workability, and Safety.

Easy to Use

- You can connect up to three Contact Blocks in one stage for multistage expansion.
- The terminals can be retightened when Contact Blocks are stacked.
- Contact Blocks can be attached in any direction for easy assembly.
- Screw terminal structure is compatible with round crimp terminals.

Safety

- Easy-to-operate lock lever for secure locking.
- Easy-mounting Contact Blocks provide finger protection.
- Different colors of Contact Blocks (NO: blue, NC: orange) help prevent wiring errors.

Product Lineup

- Meet global safety standards.
- Available with metal or plastic bezels.
- All models are keyed alike.
- Standard-feature degree of protection: IP66 and NEMA 13.

Refer to Safety Precautions for All Pushbutton Switches/Indicators and Safety Precautions in the A22NN/

A22NL datasheet





Model Number Structure

Model Number Legend - - - - - Shipped as a set that includes the Operation Unit, Mounting Collar, and Contact Block. For information on combinations, refer to Ordering Information on pages 5 to 6.

Model Numbers for Sets



(4) Key Number

Code	Туре
К	Key-type Selector Switch

• •	•
Code	No.
01	No.1

(2) Number of Positions and **Bezel Material**

No. of	
positions	Bezel material
2	Plastic
2	Brushed metal
2	Metal
3	Plastic
3	Brushed metal
3	Metal
	2 2 2 3 3 3

(3) Reset Method

Code		Reset metho	d
М	Manual	Two- positions manual	\searrow
	manual	Three- positions manual	
I	Automatic	Two- positions automatic	\checkmark
L	reset on left	Three- positions left automatic	\checkmark
В	Automatic reset on left and right	Three- positions left or right automatic	

(5) Key Release Position



O: Release position Locked position

А

(6) Degree of Protection

Code Protection IP66, NEMA13

(7) Contact Specification

Code	Description
G	General purpose

(8) Contact Configuration

Code	Contact Blocks		-	witch ositio	-	Two posi-	Three posi-	
	NO	NC	1	2	3	tions	tions	
100	1	0	NO			Yes		
002	0	1			NC	Yes		
101	2	0	NO		NO	Yes	Yes	
102	1	1	NO		NC	Yes	Yes	
201	1	1	NC		NO		Yes	
202	0	2	NC		NC	Yes	Yes	
110	2	0	NO	NO			Yes	
112	2	1	NO	NO	NC	Yes	Yes	
210	1	1	NC	NO			Yes	
011	2	0		NO	NO		Yes	
012	1	1		NO	NC		Yes	
120	1	1	NO	NC			Yes	
220	0	2	NC	NC			Yes	
021	1	1		NC	NO		Yes	
022	0	2		NC	NC		Yes	

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

2. Refer to the following figure for Unit positions.



Operation Angle



Note: Not all assembled configurations are possible. Please refer to the subassemblies section for additional options. Please refer to the specifications section for examples of linked contact block options.

■ Specifications: Refer to page 10 and refer to the A22NN/A22NL. ■ Precautions for correct use: Refer to the A22NN/A22NL. Dimensions: Refer to page 11.

Structure

Contact Configuration Table

Two Positions

No. of	Code	Contact	Unit	Contacts	Pos	ition	
outputs	Code	configuration	position	Contacts	1	2	
			(1)	NO		ON	
1	100	SPST-NO	(2)				
			(3)				
			(1)				
1	002	SPST-NC	(2)				
			(3)	NC	ON		
			(1)	NO		ON	
2	102	SPST-NO/ SPST-NC	(2)				
		0.0.10	(3)	NC	ON		
	101	101		(1)	NO		ON
2			101	DPST-NO	(2)		
			(3)	NO		ON	
	202			(1)	NC	ON	
2		DPST-NC	(2)				
			(3)	NC	ON		
			(1)	NO		ON	
3	111	3PST-NO	(2)	NO		ON	
			(3)	NO		ON	
			(1)	NC	ON		
3	222	3PST-NC	(2)	NC	ON		
			(3)	NC	ON		
		ODOT NO	(1)	NO		ON	
3	122	SPST-NO/ DPST-NC	(2)	NC	ON		
			(3)	NC	ON		
		DDOT NG	(1)	NO		ON	
3	112	DPST-NO/ SPST-NC	(2)	NO		ON	
		0.01110	(3)	NC	ON		

Operation Angle



Note: Not all assembled configurations are possible.

Please refer to the subassemblies section for additional options. Please refer to the specifications section for examples of linked contact block options.

Three Positions

No. of	0	Contact	Unit	0		Position	
outputs	Code	configuration	position	Contacts	1	0	2
			(1)	NO	ON		
2	110	DPST-NO	(2)	NO	ON		ON
			(3)				
			(1)				
2	011	DPST-NO	(2)	NO	ON		ON
			(3)	NO			ON
			(1)	NO	ON		
2	101	DPST-NO	(2)				
			(3)	NO			ON
			(1)	NC		ON	ON
2	220	DPST-NC	(2)	NC		ON	
			(3)				
			(1)				
2	022	DPST-NC	(2)	NC		ON	
			(3)	NC	ON	ON	
			(1)	NC		ON	ON
2	202	DPST-NC	(2)				
			(3)	NC	ON	ON	
			(1)	NO	ON		
2	120	SPST-NO/ SPST-NC	(2)	NC		ON	
		0.01110	(3)				

No. of	0	Contact	Unit	0		Position					
outputs	Code	configuration	position	Contacts	1	0	2				
			(1)	NO	ON						
2	102	SPST-NO/ SPST-NC	(2)								
		51 51-110	(3)	NC	ON	ON					
			(1)	NC		ON	ON				
2	210	SPST-NO/ SPST-NC	(2)	NO	ON		ON				
	3-31-10	(3)									
			(1)	NC		ON	ON				
2	201	SPST-NO/ SPST-NC	(2)								
		3531-110	(3)	NO			ON				
			(1)								
2	012	SPST-NO/ SPST-NC	(2)	NO	ON		ON				
		5P51-NC	(3)	NC	ON	ON					
			(1)								
2	021	SPST-NO/	(2)	NC		ON					
				SPST-NC	(3)	NO			ON		
	3 111				(1)	NO	ON				
3		3PST-NO	(2)	NO	ON		ON				
			(3)	NO			ON				
							(1)	NC		ON	ON
3	222	3PST-NC	(2)	NC		ON					
			(3)	NC	ON	ON					
			(1)	NO	ON						
3	122	SPST-NO/	(2)	NC		ON					
-		DPST-NC	(3)	NC	ON	ON					
			(1)	NC	0.1	ON	ON				
3	212	212	SPST-NO/	(2)	NO	ON	•	ON			
-		DPST-NC	(3)	NC	ON	ON					
			(1)	NC		ON	ON				
3	221	SPST-NO/	(2)	NC		ON	0				
Ū		DPST-NC	(3)	NO	ON	•	ON				
			(1)	NC		ON	ON				
3	211 DPST-NO/	(1)	NO	ON	0.1	ON					
0		SPST-NC	(3)	NO	011		ON				
			(1)	NO	ON		0.1				
3	121	DPST-NO/	(1)	NC		ON					
0	121	SPST-NC	(3)	NO			ON				
			(1)	NO	ON						
3	112	DPST-NO/	(1)	NO	ON		ON				
5	112	SPST-NC	(2)	NC	ON	ON					





Note: Some combinations are only available through subassemblies. Please refer to the specifications section for more information.

Ordering Information

Model Numbers for Sets---- Shipped as a set that includes the Operation Unit, Mounting Collar, and Contact Block. Two-position, Key-type Selector Switches

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

Three-position, Key-type Selector Switches

Appearance	Bezel material	No. of out- puts	Model	(3) Reset method	(5) Key release positions	(8)(8)(8) Contact configuration
Plastic bezels	3В	2	A22NK-3B(3)-01(5)A-G(8)(8)(8)			110 011 101 220 022 202 120 102 210 201 012 021
Brushed metal bezels	ЗМ	2	A22NK-3M(3)-01(5)A-G(8)(8)(8)	M: Manual B: Automatic reset on left and right	B: Left D: Center G: Left and right	110 011 101 220 022 202 120 102 210 201 012 021
Metal bezels	ЗR	2	A22NK-3R(3)-01(5)A-G(8)(8)(8)			110 011 101 220 022 202 120 102 210 201 012 021

Note: Not all assembled configurations are possible.

Please refer to the subassemblies section for additional options.

Please refer to the specifications section for examples of linked contact block options.

Subassemblies: Refer to pages 7 to 9. (You can order Operation Units, Mounting Collars, and Contact Blocks individually.)

- Specifications: Refer to page 10 and refer to the A22NN/A22NL.
 Dimensions: Refer to page 11.
- Accessories and tools: Refer to the A22NN/A22NL

Ordering Information

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



Note: Use a Reinforcement Plate for greater strength.



■ Model numbers of sets: Refer to page 5.

- Specifications: Refer to page 10 and refer to the A22NN/A22NL. Dimensions: Refer to page 11.
- Accessories and tools: Refer to the A22NN/A22NL

Ordering Information

Subassemblies -

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

Operation Units

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

■ Model numbers of sets: Refer to page 5.

Specifications: Refer to page 10 and refer to the A22NN/A22NL.
 Dimensions: Refer to page 11.

Accessories and tools: Refer to the A22NN/A22NL

Ordering Information

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

Mounting Collar

Appearance	Model
	A22NZ-H-01

Contact Blocks

Appearance	Contact Specification	Model
1	SPST-NO (blue)	A22NZ-S-G1A
	SPST-NC (orange)	A22NZ-S-G1B

Reinforcement Plate

Appearance	Model
es es es	A22NZ-A-C01

Accessories

Appearance	Model
Key	
Near Near	A22NZ-K-01

Specifications

Characteristics

Туре		Key-type Selector Switches	
Item			
Allowable operating	Mechanical	30 operations/minute max.	
frequency	Electrical	30 operations/minute max.	
Insulation resistance	-	100 MΩ min. (at 500 VDC)	
Contact resistance		100 mΩ max. (initial value)	
Between terminals of same polarity		2,500 VAC at 50/60 Hz for 1 min	
Dielectric strength	Between each termi- nal and ground	2,500 VAC at 50/60 Hz for 1 min	
Vibration resistance	Ibration resistance Malfunction 10 to 55 Hz, 1.5-mm double amplitude (malfunction within 1 ms)		
Shock resistance Malfunction 1,000 m/s ² max. (malfunction within 1 ms)		1,000 m/s ² max. (malfunction within 1 ms)	
Durability	Mechanical	500,000 operations min. (Switches with 3 positions: 300,000 operations min.)	
Durability	Electrical	500,000 operations min. (Switches with 3 positions: 300,000 operations min.)	
Ambient operating ter	mperature ^{*1}	–25 to 70°C	
Ambient operating hu	imidity	35% to 85% RH	
Ambient storage temp	perature ^{*1}	-40 to 80°C	
Degree of protection*2		IP66, NEMA13	
Electric shock protection class		Class II	
PTI (tracking characteristic)		175	
Degree of contamination (application environment)		3 (IEC 60947-5-1)	
Weight		Approx. 65 g (for 1NC/1NO)	

***1.** With no icing or condensation.

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

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

Туре	Key-type Selector Switches		
Item	Manual reset	Automatic reset	
Total travel force (torque) (maximum TTF)	0.6 N·m	0.6 N·m	
Total travel (TT)	2 positions: Approx. 90°, 3 positions: Approx. 45°		
Resetting force (torque) (RF)	0.5 N·m max.		

Contact Blocks

Examples of Linked Contact Blocks

	Key-type Selector Switches	
	2 positions	3 positions
Linking example	Operation Unit Mounting Collar	Operation Unit Mounting Collar

Note: If you increase the number of Contact Blocks, evaluate the Switch under actual working conditions before permanent installation and use the Switch within a number of switching operations that will not adversely affect the Switch's performance.

(Unit: mm)

Dimensions

Lighted and Non-lighted Key-type Selection Switches

Two-position Switches with Plastic Bezels



Three-position Switches with Plastic Bezels A22NK-3B



Two-position Switches with Brushed Metal Bezels





Two-position Switches with Metal Bezels



Depth with Linked Units



Three-position Switches with Brushed Metal Bezels A22NK-3M





Three-position Switches with Metal Bezels A22NK-3R



Terminal Wiring Diagrams Bottom View



Terminal Connection Diagrams



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Safety Precautions

Refer to *Safety Precautions for All Pushbutton Switches/Indicators* for common precautions. Read the *Safety Precautions* in the A22NN/A22NL datasheet.

Precautions for Correct Use

Insert the key all of the way to the back of the cylinder before you turn it.

Safety Precautions

Refer to Safety Precautions for All Pushbutton Switches/Indicators.

Precautions for Safe Use

- Never perform wiring work on a Switch while power is being supplied. Never touch terminals and other charged parts while power is being supplied. Doing so may result in electrical shock.
- Never attempt to disassemble or modify the Switch in any way. Doing so may prevent correct operation.
- Switch functionality may be inhibited. Do not drop the Switch. Never apply a force that would deform or alter the nature of the Switch.
- The durability of the Switch is greatly affected by operating conditions. Evaluate the Switch under actual working conditions before permanent installation and use the Switch within a number of switching operations that will not adversely affect the Switch's performance.
- Do not use a load voltage or current that exceeds the rating. Doing so may damage or cause burning in the Switch.
- Do not use the Switch in a location with inflammable or explosive gases, or where the Switch would be subjected to inflammable solvents. The arcs and heat generated when the Switch is operated can cause ignition or explosions.
- Do not use the Switch where sulfur gas (H₂S, SO₂), ammonia gas (NH₃), nitric acid gas (HNO₃), chlorine gas (Cl₂), or other harmful gases are present or where high humidity is present. Contact faults and damage due to corrosion may interfere with the functionality of the Switch.
- Do not use the Switch in oil or water or in an environment subject to constant contact with oil or water. The oil or water may enter the Switch, causing failure.
- Do not use or store the Switch in the following locations.
 Locations subject to rapid temperature changes
- Locations subject to condensation due to high humidity
 Locations subject to vibration
- •Locations subject to direct sunlight
- •Locations subject to salty air
- Make sure that the rubber washer is in place between the Operation Unit and the panel. Otherwise, the specifications of the protective structure may not be satisfied.
- Do not subject the Contact Block or wiring to excessive force. The Contact Block may be damaged or deformed and faulty contact may occur.

Precautions for Correct Use

Mounting

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

Wiring

- Terminal screws must be M3.5 Phillips or slotted screws with a square washer.
- The terminal screw tightening torque is 1.0 to 1.3 N·m.
- Solid wires, stranded wires, and crimp terminals can be connected to the Switch.

Stranded wires: AWG14 to AWG16 Solid wire: 1.6 dia. max. Bare Crimp Terminals



Crimp Terminals with Insulating Sheathes



• After wiring the Switch, maintain appropriate clearance and creepage distances.

Operating Environment

• The Switch is intended for indoor use only. Using the Switch outdoors will result in failure.

LED Lamps

- A current-limiting resistor is built into the LED Lamp, so external resistance is not required.
- False Lighting of the LED Lamp

The LED Lamp will light with a microcurrent of approx. 0.1 mA or less. Take countermeasures, such as adding a resistor in parallel to the LED Lamp, to prevent false lighting.

The micro-current varies with the machine (due to leakage current, stray capacity between cables, etc.). Select a resistance value and allowable power consumption according to the actual current.

Example of Circuit to Prevent False Lighting For 24 VAC/VDC Lighting Unit



Application Mounting to the Panel Panel Hole Dimensions

- Panel hole dimensions are given below.
- The recommended panel thicknesses are given below.

Panel hole dimension	Panel thickness
22.3 dia.	0.8 to 5 mm
25.5 dia.	0.8 to 6 mm

- If outer surface treatment such as coating is performed for the panel, the panel dimensions after outer surface treatment must meet the specified panel dimensions.
- The following figure gives pitch dimension A and pitch dimension B between the centers of the mounting holes.

Panel Hole Dimensions for 22.3 Diameter



Panel Hole Dimensions for 25.5 Diameter



Dimension A

Wire type	Number of linked Con- tact Blocks	Number of wires per ter- minal	Minimum al- lowable pitch Dimension A (mm) or larger
Leads (twisted wires or solid wire)	1	1	50
Bare crimp terminals	1	1	50
Crimp terminals with insulating sheathes	1	1	60

Note: The minimum mounting pitch is based on three Contact Blocks in stage 1 with one wire attached to each terminal. If you attach two wires or link Units, determine the mounting pitch based on the dimensions diagrams and ease of operation and wiring.

Dimension A When Using Accessory

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

Dimension B

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

Mounting the Operation Unit

• Panel Hole of 22.3-mm Diameter

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



- Panel Hole of 25.5-mm Diameter
- Do not use the Lock Ring, and tighten the Mounting Nut while confirming that the projecting part (see following figure) on the Mounting Nut is aligned with mounting hole. Before tightening, check that the rubber washer is present between the Operation Unit and the panel.



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

Mounting the Contact Block to the Operation Unit

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



Removing the Mounting Collar

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

Contact Block Attaching the Contact Block

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



Removing the Contact Block

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



Attaching the Reinforcement Plate

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



Engraving

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

Projected, Full-guard, or Mushroom Switches	Flat Switches
15.4 dia.	17.7 dia.

Attaching Character Films

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





egend Plate Button

Mushroom Switches

Flat Switches





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

Projected, Full-guard, or Mushroom Switches	Legend Plate di- mensions	Display range 15.4 dia. 1.6 5.15 1.5 Ji 1.6 Ji 1.
	Film dimen- sions	17.1_{02}° dia. 17.1_{02}° dia. 17.1_{02}° dia. 17.1_{02}° dia. T = 0.1 to 0.2 mm
Flat Switches	Legend Plate di- mensions	Display range 17.7 dia. 1.30 2.00 -++-
	Film dimen- sions	19.6 $^{\circ}_{0.2}$ dia. 17.5 $^{\circ}_{0.2}$ T = 0.1 to 0.2 mm

Removing and Tightening the Cap

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



Attaching the LED Lamp to the Lighting Unit

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



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

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



Attaching the LED Lamp from the Panel Surface

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





LED Lamp insertion guides

Control Box

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



Creating a Cable Hole

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



Attaching and Removing Legend Plates

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



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



Attaching the Lock Ring

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



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



Panel thickness: 0.8 to 4 mm

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



Attaching the Protective Cover

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



Terms and Conditions of Sale

- 1. Offer; Acceptance. These terms and conditions (these "Terms") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "Products") by Omron Electronics LLC and its subsidiary companies ("Omron"). Omron objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms. Prices: Payment Terms, All prices stated are current, subject to change without notice by Omron. Omron reserves the right to increase or decrease prices on any unshipped portions of outstanding orders. Payments for Products are due net 30 days unless otherwise stated in the invoice. Discounts, Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (i) the invoice is paid according to Omron's payment terms and (ii) Buyer has no past due amounts.
- 2
- 3.
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- 8. <u>Einancial</u> If the financial position of Buyer at any time becomes unsatisfactory to Omron, Omron reserves the right to stop shipments or require satisfactory security or payment in advance. If Buyer fails to make payment or otherwise comply with these Terms or any related agreement, Omron may (without liabil-ity and in addition to other remedies) cancel any unshipped portion of Prod-ucts sold hereunder and stop any Products in transit until Buyer pays all amounts, including amounts payable hereunder, whether or not then due, which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid accounts unpaid accounts.
- <u>Cancellation</u>, <u>Etc.</u> Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Omron against all related costs or expenses.
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- c. All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid;
 d. Delivery and shipping dates are estimates only; and
 e. Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
 12. <u>Claims</u>. Any claim by Buyer against Omron for shortage or damage to the Products occurring before delivery to the carrier must be presented in writing to Omron within 30 days of receipt of shipment and include the original transportation bill signed by the carrier received the Products
- portation bill signed by the carrier noting that the carrier received the Products from Omron in the condition claimed.
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