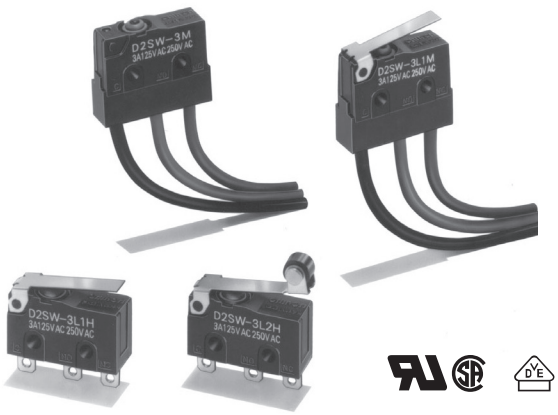
Sealed Snap Action Switch
D2SW

Watertight Miniature Snap Action Switch

- High-quality watertight miniature Snap Action switch. Switch Body meets IP67 (IEC 529) requirements
- Monoblock construction assures high sealing capability and is ideal for dusty places or where water is sprayed
- Wide operating temperature range of -40°C to 85°C
- Perfect for the automobile, agriculture machinery, automatic vending machine, refrigerator, ice-manufacturing, hot-water supply, air conditioner, and industrial equipment, which require highly environment-resistive capabilities
- RoHS Compliant



Ordering Information

Actuator	Terminal	Model	
		Model 3 A	Model 0.1 A
Pin plunger 	Solder terminals	**D2SW-3HS**	**D2SW-01HS**
	Quick-connect terminals (#110)	**D2SW-3TS**	**D2SW-01TS**
	PCB terminals	**D2SW-3DS**	**D2SW-01DS**
	With lead wires	**D2SW-3MS**	**D2SW-01MS**
Hinge lever 	Solder terminals	**D2SW-3L1HS**	**D2SW-01L1HS**
	Quick-connect terminals (#110)	**D2SW-3L1TS**	**D2SW-01L1TS**
	PCB terminals	**D2SW-3L1DS**	**D2SW-01L1DS**
	With lead wires	**D2SW-3L1MS**	**D2SW-01L1MS**
Simulated roller lever 	Solder terminals	**D2SW-3L3HS**	**D2SW-01L3HS**
	Quick-connect terminals (#110)	**D2SW-3L3TS**	**D2SW-01L3TS**
	PCB terminals	**D2SW-3L3DS**	**D2SW-01L3DS**
	With lead wires	**D2SW-3L3MS**	**D2SW-01L3MS**
Hinge roller lever 	Solder terminals	**D2SW-3L2HS**	**D2SW-01L2HS**
	Quick-connect terminals (#110)	**D2SW-3L2TS**	**D2SW-01L2TS**
	PCB terminals	**D2SW-3L2DS**	**D2SW-01L2DS**
	With lead wires	**D2SW-3L2MS**	**D2SW-01L2MS**

Note: 1. "S" at the end of the part number signifies UL/CSA approved models.

2. The standard lengths of the lead wires (UL1015 AWG22 for UL/CSA models, AV0.5f otherwise.) of models incorporating them are 30 cm.

Model Number Legend

D2SW-□ □ □ □

1 2 3 4

1. Ratings
- 3: 3 A at 125 VAC
- 01: 0.1 A at 30 VDC

2. Actuator
- None: Pin plunger
- L1: Hinge lever
- L2: Hinge roller lever
- L3: Simulated roller lever

3. Contact Form
- None: SPDT
- -2: SPST-NC*
- -3: SPST-NO*

*Lead wire versions only

4. Terminals
- H, HS: Solder terminals (HS for UL and CSA approval)
- D, DS: PCB terminals (DS for UL and CSA approval)
- T, TS: Quick-connect terminals (#110) (TS for UL and CSA approval)
- M, MS: Molded lead wires (MS for UL and CSA approval)

Specifications

■ Characteristics

Item		D2SW-3	D2SW-01
Operating speed		0.1 mm to 1 m/second (at pin plunger)	
Operating frequency		Mechanical: 300 operations/minute max. Electrical: 30 operations/minute max.	
Insulation resistance		100 MΩ min. (at 500 VDC)	
Contact resistance		30 mΩ max. for terminal models	50 mΩ max. for terminal models
		50 mΩ max. for lead wire models	70 mΩ max. for lead wire models
Dielectric strength (See note 2)		1,000 VAC, 50/60 Hz for 1 min. between terminals of the same polarity	600 VAC, 50/60 Hz for 1 min. between terminals of the same polarity
		1,500 VAC, 50/60 Hz for 1 min. between current-carrying metal parts and ground, and between each terminal and noncurrent-carrying metal parts	
Vibration resistance (See note 3)		Malfunction: 10 to 55 Hz, 1.5 mm double amplitude	
Shock resistance (See note 3)		Destruction: 1,000 m/s^2 (approx. 100G) max. Malfunction: 300 m/s^2 (approx. 30G) max.	
Ambient operating temperature		-40° to 85°C (at 60% RH) with no icing	
Ambient operating humidity		95% max. (for 5°C to 35°C)	
Degree of protection		IEC IP67 (excluding the terminals on terminal models)	
Degree of protection against electric shock		Class I	
Proof tracking index (PTI)		175	
Life expectancy	**Mechanical**	5,000,000 operations min. at 60 operations per minute	
	Electrical **(30 operations per minute)**	200,000 operations min. (3 A at 125 VAC) 100,000 operations min. (2 A at 250 VAC)	200,000 operations min. (at rated resistive load)
Weight	**Terminal model**	Approx. 2 g	
	Lead wire model	Approx. 10 g	

Note: 1. Data shown are of initial value.

2. The dielectric strength shown is measured using a separator between the switch and metal mounting plate

3. For pin plunger models, the above values apply for use at the free position, operating position, and total travel position. For models with levers, the values apply at the total travel position.

■ Ratings (reference values)

D2SW-3

Rated Voltage	Non-inductive load (A)				Inductive load			
	Resistive load		Lamp load		Inductive load		Motor load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	3 A		1 A	0.5 A	1 A	0.5 A	1 A	0.5 A
250 VAC	2 A		0.5 A	0.3 A	0.5 A	0.3 A	0.5 A	0.3 A
30 VDC	3 A		1 A		1 A		1 A	

D2SW-01

Rated Voltage	Non-inductive load				Inductive load			
	Resistive load		Lamp load		Inductive load		Motor load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	0.1 A		—		—		—	
30 VDC	0.1 A		—		—		—	

Note: 1. The resistive load ratings apply under the following test conditions:
Ambient Temperature = 20±2°C, Ambient Humidity = 65±5%, Operating frequency = 30 operations/min.

2. The above current ratings are the values of the steady-state current.

3. Inductive load has a power factor of 0.7 min. (AC) and a time constant of 7 ms max. (DC).

4. Lamp load has an inrush current of 10 times the steady-state current.

5. Motor load has an inrush current of 6 times the steady-state current.

■ Approvals

UL Recognized, CSA Certified

Rated Voltage	D2SW-3	D2SW-01
125 VAC 250 VAC	3 A 2 A	0.1 A - - -
30 VDC	3 A	0.1 A

EN 61058-1 (VDE Approval)

Rated Voltage	D2SW-01
125 VAC	0.1 A

Testing conditions: 5E4 (50,000 operations), T85 (0°C to 85°C)

■ Contact Specifications

Item	D2SW-3	D2SW-01
Specification	Rivet	Crossbar
Material	Silver	Gold alloy
Gap (standard value)	0.5 mm	
Inrush current	NC: 20 A max. NO: 10 A max.	1 A max.
Minimum applicable load (see note)	160 mA at 5 VDC	1 mA at 5 VDC

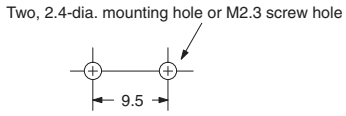
Note: Minimum applicable loads are indicated by N standard reference values. This value represents the failure rate at a 60% (λ_{60}) reliability level (JIS C5003).
The equation $\lambda_{60}=0.5 \times 10^{-6}$ / operations indicates that a failure rate of 1/2,000,000 operations can be expected at a reliability level of 60%

Engineering data

■ Mounting

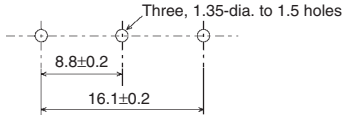
All switches may be panel mounted using M2.3 mounting screws with plane washers or spring washers to securely mount the switch. Tighten the screws to a torque of 0.23 to 0.26 N·m.

Panel Mounting



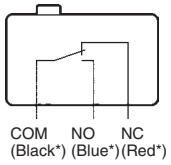
■ PCB Layout (reference)

PCB Mounting

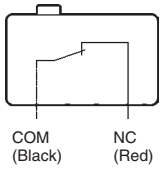


■ Structure

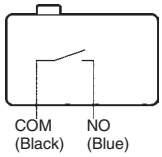
SPDT



SPST-NC



SPST-NO



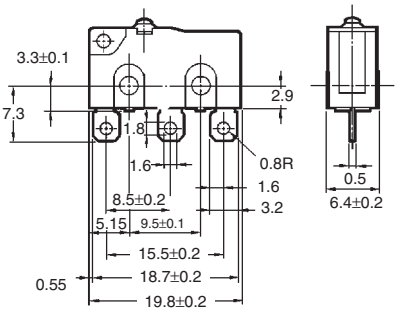
*Indicates the color of the lead wire.

Dimensions

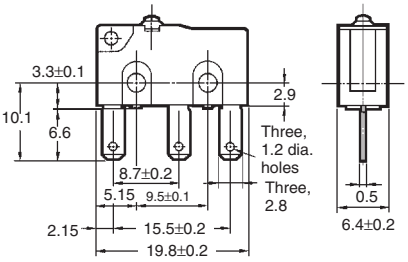
■ Terminals

Note: Unless otherwise specified, all units are in millimeters and a tolerance of ±0.4 mm applies to all dimensions

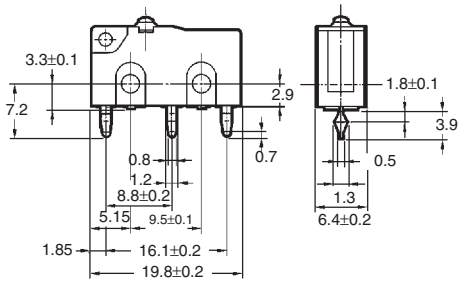
Solder Terminals (HS)



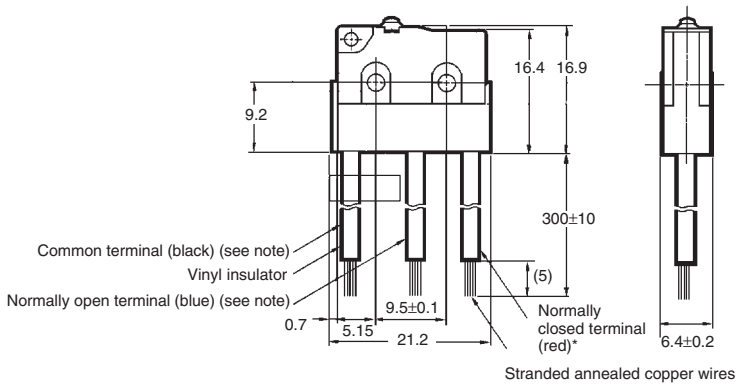
Quick-connect Terminals (#110) (TS)



PCB Terminals (DS)



Molded Lead Wires



* UL/CSA approved models have UL approved AWG22 wiring.

■ Dimensions and Operating Characteristics

Note: 1. Unless otherwise specified, all units are in millimeters and a tolerance of ±0.4 mm applies to all dimensions

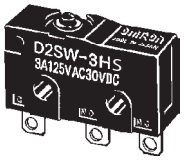
2. Omitted dimensions are the same as pin plunger type.

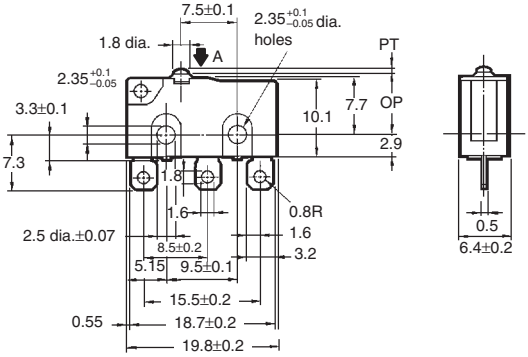
3. The following illustrations and dimensions are for models with solder terminals. Refer to "Terminals" for models with quick-connect (#110) and PCB terminals.

4. The operating characteristics are for operation in the A direction(⬇)

Pin Plunger Models

D2SW-3□S
D2SW-01□S

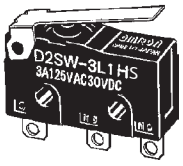


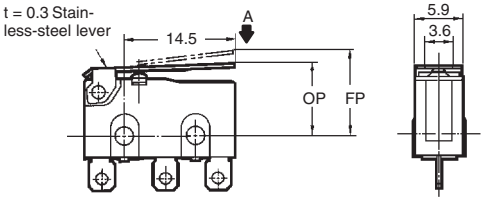


OF	180 gf
RF min.	30 gf
PT max.	0.6 mm
OT min.	0.5 mm
MD max.	0.1 mm
OP	8.4 ± 0.3 mm

Hinge Lever Models

D2SW-3L1□S
D2SW-01L1□S

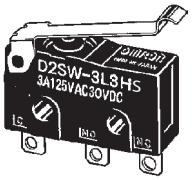


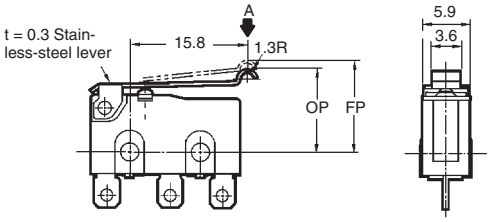


OF	60 gf
RF min.	6 gf
OT min.	1.0 mm
MD max.	0.8 mm
FP max.	13.6 mm
OP	8.8 ± 0.8 mm

Simulated Roller Lever Models

D2SW-3L3□S
D2SW-01L3□S

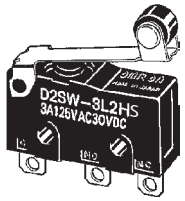


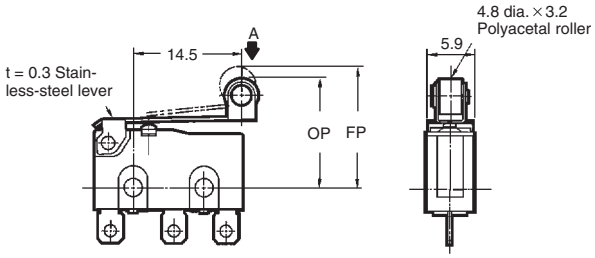


OF	60 gf
RF min.	6 gf
OT min.	1.0 mm
MD max.	0.8 mm
FP max.	15.5 mm
OP	10.7 ± 0.8 mm

Hinge Roller Lever Models

D2SW-3L2□S
D2SW-01L2□S





OF	60 gf
RF min.	6 gf
OT min.	1.0 mm
MD max.	0.8 mm
FP max.	19.3 mm
OP	14.5 ± 0.8 mm

Precautions

Be sure to read the precautions and information common to all Snap Action and Detection Switches, contained in the Technical User's Guide, "Snap Action Switches, Technical Information" for correct use.

■ Correct Use

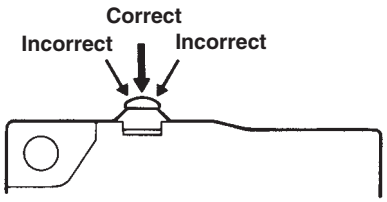
Operation stroke

Make sure that the switching object is perfectly separated from the actuator when the switch is not operated and the actuator is pressed appropriately by the switching object when the switch is operated.

The switch should be set so that its stroke will be within the rated OT when the switch is operated.

Handling

Install the switching object so that its moving direction is the same as that of the actuator. With the pin plunger models, set the switch so that the plunger can be actuated from directly above. Since the plunger is covered with a rubber cap, applying a force from lateral directions may cause damage to the plunger or reduction in the sealing capability.

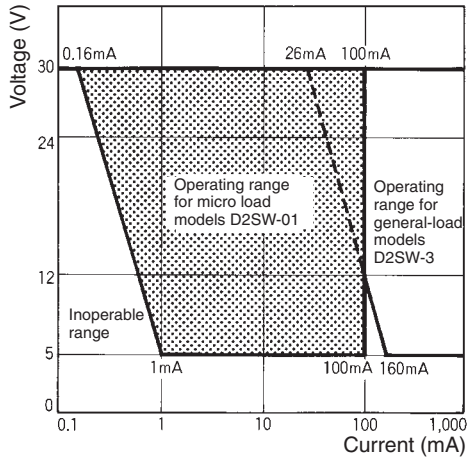


Handle D2SW models with pin plungers with care so that the sealing rubber parts around the pin plungers will not be damaged.

Make sure that there is no icing when using the D2SW at low ambient temperatures.

Using Microloads

Using a model for ordinary loads to switch microloads may result in faulty operation. Instead, use the models that are designed for microloads and that operate in the following range;



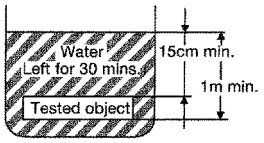
However, even when using microload models within the operating range shown above, if inrush current or inductive voltage spikes occur when the contact is opened or closed, then contact wear may increase and so decrease the service life. Therefore, insert a contact protection circuit where necessary.

■ Cautions

Degree of Protection

The D2SW was tested under water and passed the following watertightness test, which however, does not mean that the D2SW can be used in the water. JIS C0929 (rules for testing the watertightness of electrical devices and materials), class 7 (watertightness test). Refer to the following illustration for the test method.

IEC Publication 529, class IP67. Refer to the following illustration for the test method.



Note: The object to be tested is left in the water for 30 minutes on condition that the distance between the surface of the water and the top of the object be 15 cm minimum, and the distance between the surface of the water and the bottom of the object be 1 m minimum.

Protection Against Chemicals

Prevent the switch from coming into contact with oil and chemicals. Otherwise, damage and deterioration to the switch materials may occur.

Soldering

When soldering a lead wire to a terminal of the D2SW, use a soldering iron with a maximum capacity of 30 W and do not take more than 5 seconds to solder the lead wire, otherwise the characteristics of the D2SW may be altered.

Omron Electronic Components, LLC

Terms and Conditions of Sales

I. GENERAL

1. Definitions: The words used herein are defined as follows.
   (a) Terms: These terms and conditions
   (b) Seller: Omron Electronic Components LLC and its subsidiaries
   (c) Buyer: The buyer of Products, including any end user in section III through VI
   (d) Products: Products and/or services of Seller
   (e) Including: Including without limitation
2. Offer: Acceptance: These Terms are deemed part of all quotations, acknowledgments, invoices, purchase orders and other documents, whether electronic or in writing, relating to the sale of Products by Seller. Seller hereby objects to any Terms proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
3. Distributor: Any distributor shall inform its customer of the contents after and including section III of these Terms.

II. SALES

1. Prices; Payment: All prices stated are current, subject to change without notice by Seller. Buyer agrees to pay the price in effect at the time the purchase order is accepted by Seller. Payments for Products received are due net 30 days unless otherwise stated in the invoice. Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice.
2. 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 (a) the invoice is paid according to Seller's payment terms and (b) Buyer has no past due amounts owing to Seller.
3. Interest: Seller, at its option, may charge Buyer 1.5% interest per month or the maximum legal rate, whichever is less, on any balance not paid within the stated terms.
4. Orders: Seller will accept no order less than 200 U.S. dollars net billing.
5. Currencies: If the prices quoted herein are in a currency other than U.S. dollars, Buyer shall make remittance to Seller at the then current exchange rate most favorable to Seller; provided that if remittance is not made when due, Buyer will convert the amount to U.S. dollars at the then current exchange rate most favorable to Seller available during the period between the due date and the date remittance is actually made.
6. Governmental Approvals: Buyer shall be responsible for all costs involved in obtaining any government approvals regarding the importation or sale of the Products.
7. Taxes: All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Seller or required to be collected directly or indirectly by Seller for the manufacture, production, sale, delivery, importation, consumption or use of the Products sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Seller.
8. Financial: If the financial position of Buyer at any time becomes unsatisfactory to Seller, Seller 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, Seller may (without liability and in addition to other remedies) cancel any unshipped portion of Products 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.
9. Cancellation; Etc: Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Seller fully against all costs or expenses arising in connection therewith.
10. Force Majeure: Seller shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
11. Shipping; Delivery: Unless otherwise expressly agreed in writing by Seller:
    (a) All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Products shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Products until the full purchase price is paid by Buyer;
    (b) Delivery and shipping dates are estimates only; and
    (c) Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
12. Claims: Any claim by Buyer against Seller for shortage or damage to the Products occurring before delivery to the carrier or any claim related to pricing or other charges must be presented in detail in writing to Seller within 30 days of receipt of shipment.

III. PRECAUTIONS

1. Suitability: IT IS THE BUYER'S SOLE RESPOINSIBILITY TO ENSURE THAT ANY OMRON PRODUCT IS FIT AND SUFFICIENT FOR USE IN A MOTORIZED VEHICLE APPLICATION. BUYER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING APPROPRIATENESS OF THE PARTICULAR PRODUCT WITH RESPECT TO THE BUYER'S APPLICATION INCLUDING (A) ELECTRICAL OR ELECTRONIC COMPONENTS, (B) CIRCUITS, (C) SYSTEM ASSEMBLIES, (D) END PRODUCT, (E) SYSTEM, (F) MATERIALS OR SUBSTANCES OR (G) OPERATING ENVIRONMENT. Buyer acknowledges that it alone has determined that the Products will meet their requirements of the intended use in all cases. Buyer must know and observe all prohibitions of use applicable to the Product/s.
2. Use with Attention: The followings are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible use of any Product, nor to imply that any use listed may be suitable for any Product:
   (a) Outdoor use, use involving potential chemical contamination or electrical interference.
   (b) Use in consumer Products or any use in significant quantities.
   (c) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
   (d) Systems, machines, and equipment that could present a risk to life or property.
3. Prohibited Use: NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
4. Motorized Vehicle Application: USE OF ANY PRODUCT/S FOR A MOTORIZED VEHICLE APPLICATION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY SELLER.
5. Programmable Products: Seller shall not be responsible for the Buyer's programming of a programmable Product.

IV. WARRANTY AND LIMITATION

1. Warranty: Seller's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT ALL OTHER WARRANTIES, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS.
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