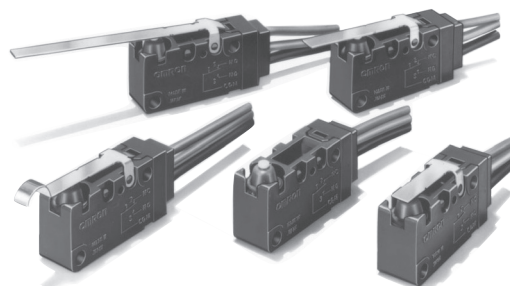


Sealed Snap Action Switch D2VW

Watertight Miniature Snap Action Switch

- High-quality watertight, high-precision miniature Snap Action switch. Switch Body meets IP67 requirements
- Use of epoxy resin assures high sealing capability and is ideal for dusty places or where water is sprayed
- V-series internal mechanism assures high precision and long life
- General-load (5 A at 250 VAC) models and micro-load models are available
- RoHS Compliant



Ordering Information

Actuator		Terminal	Model	
			Model 0.1 A	Model 5 A
Pin plunger		With solder and #187 tab terminals	D2VW-01-1HS	D2VW-5-1HS
		With lead wires	D2VW-01-1MS	D2VW-5-1MS
Short hinge lever		With solder and #187 tab terminals	D2VW-01L1A-1HS	D2VW-5L1A-1HS
		With lead wires	D2VW-01L1A-1MS	D2VW-5L1A-1MS
Hinge lever		With solder and #187 tab terminals	D2VW-01L1-1HS	D2VW-5L1-1HS
		With lead wires	D2VW-01L1-1MS	D2VW-5L1-1MS
Long hinge lever		With solder and #187 tab terminals	D2VW-01L1B-1HS	D2VW-5L1B-1HS
		With lead wires	D2VW-01L1B-1MS	D2VW-5L1B-1MS
Simulated roller lever		With solder and #187 tab terminals	D2VW-01L3-1HS	D2VW-5L3-1HS
		With lead wires	D2VW-01L3-1MS	D2VW-5L3-1MS
Short hinge roller lever		With solder and #187 tab terminals	D2VW-01L2A-1HS	D2VW-5L2A-1HS
		With lead wires	D2VW-01L2A-1MS	D2VW-5L2A-1MS
Hinge roller lever		With solder and #187 tab terminals	D2VW-01L2-1HS	D2VW-5L2-1HS
		With lead wires	D2VW-01L2-1MS	D2VW-5L2-1MS

Note: 1. The standard lengths of the lead wires (UL1015 AWG20 for UL/CSA models, AV0.75f otherwise) of models incorporating them are 30 cm.
 2. Remove "-HS" from the end of solder/quick-connect models to obtain non-UL/CSA versions. (e.g.: D2VW-01-1HS → D2VW-01-1)
 3. Remove "S" from the end of lead wire models to obtain non-UL/CSA versions with AV0.75f wire. (e.g.: D2VW-5L3-1MS → D2VW-5L3-1M)

Model Number Legend

D2VW- -
 1 2 3 4

1. Ratings	2. Actuator	3. Contact Form	4. Terminals
5: 5 A at 250 VAC 01: 0.1 A at 30 VDC	None: Pin plunger L1A: Short hinge lever L1: Hinge lever L1B: Long hinge lever L3: Simulated roller lever L2A: Short hinge roller lever L2: Hinge roller lever	1: SPDT 2: SPST-NC* 3: SPST-NO* *Lead wire versions only	None, HS: Solder terminals (HS for UL and CSA approval.) M, MS: Molded lead wires (MS for UL and CSA approval)

Specifications

■ Characteristics

Model		D2VW-01	D2VW-5
Operating speed		0.1 mm to 1 m/s (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		50 mΩ max. (100 mΩ max. for molded lead wire models)	
Dielectric strength (See note 2)		1,000 VAC, 50/60 Hz for 1 min. between terminals of the same polarity 1,500 VAC, 50/60 Hz for 1 min. between each current-carrying metal parts and ground, and between each terminal and non-current-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.	
Degree of protection		IEC IP67 (excluding the terminals on terminal models).	
Degree of protection against electric shock		Class I	
Proof tracking index (PTI)		175	
Ambient operating temperature		-40° to 85°C (at 60% RH max.) with no icing	
Ambient operating humidity		95% max. (for 5°C to 35°C)	
Life expectancy	Mechanical	10,000,000 operations min. at 60 operations per minute	
	Electrical	1,000,000 operations min. at 30 ops. per minute.	100,000 operations min. at 30 ops. per minute
Weight		Approx. 7g (pin plunger models without wires)	

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 the pin plunger models, the above values apply for use at the free position and total travel position. For the lever models, the values apply at the total travel position.

4. The operating temperature of the lead wire (AV0.75f) for non-UL/CSA molded lead wire models is between -40 to 85°C.

■ Ratings (reference values)

D2VW-5

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	5 A		0.5 A		4 A		—	
250 VAC	5 A		0.5 A		4 A		—	
30 VDC	5 A		3 A		4 A		—	
125 VDC	0.4 A		0.1 A		0.4 A		—	

D2VW-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. Rating for UL/CSA approval is as follows (See "Approved Standards" section):

D2VW-01 0.1A @ 125 VAC

0.1A @ 30 VDC

D2VW-5 3A @ 125 VAC, 250 VAC

■ Approved Standards

UL Recognized, CSA Certified

Rated Voltage	D2VW-5	D2VW-01
125 VAC	3 A	0.1 A
250 VAC	3 A	---
30 VDC	---	0.1 A

EN 61058-1 (VDE Approval)

Rated Voltage	D2VW-5	D2VW-01
125 VAC	---	0.1 A
250 VAC	3 A	---

Testing conditions:

25E3 (25,000 operations), T85 (0°C to 85°C) for D2VW-5
1E5 (100,000 operations), T85 (0°C to 85°C) for D2VW-01

■ Contact Specifications

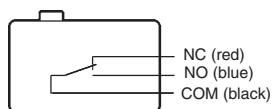
Item	D2VW-5	D2VW-01
Specification	Rivet	Crossbar
Material	Silver alloy	Gold alloy
Gap (standard value)	0.5 mm	
Inrush current	NC: 15 A max. NO: 15 A max.	---
Minimum applicable load (see note)	160 mA at 5 VDC	1 mA at 5 VDC

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%

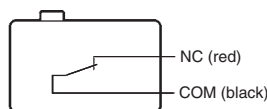
Engineering Data

■ Structure

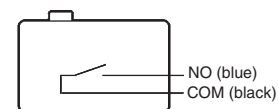
SPDT



SPST-NC



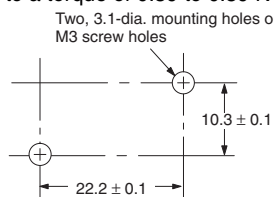
SPST-NO



Note: Colors in parentheses indicate lead wire colors.

■ Mounting

All switches may be panel mounted using M3 mounting screws with plane washers or spring washers to securely mount the switch. Tighten the screws to a torque of 0.39 to 0.59 N·m.



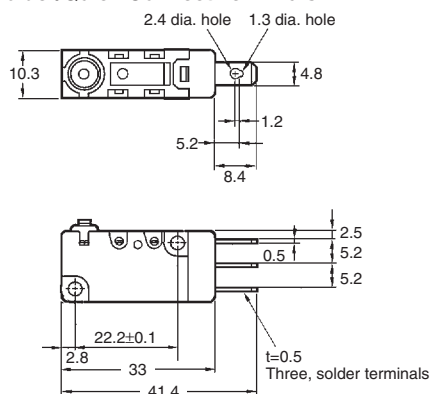
Dimensions

■ Terminals

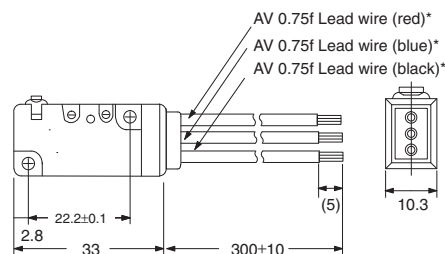
Note: 1. Unless otherwise specified, all units are in millimeters and a tolerance of ± 0.4 mm applies to all dimensions

2. The pin plunger model is shown here as a typical example for both the solder/quick connect terminals and the molded lead wire versions.

Solder/Quick Connect Terminals



Molded Lead Wires



* UL/CSA approved models have AWG20 UL approved wiring.

■ Dimensions and Operating Characteristics

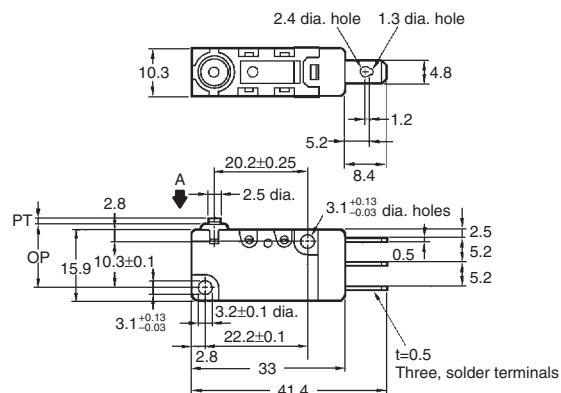
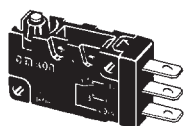
Note: 1. Unless otherwise specified, all units are in millimeters and a tolerance of ± 0.4 mm applies to all dimensions

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

3. The operating characteristics are for operation in the A direction(▼)

Pin Plunger Models

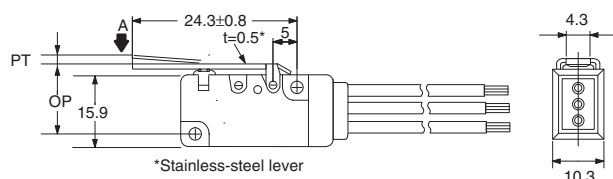
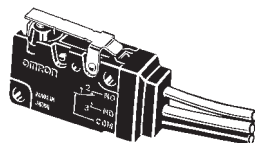
D2VW-01-1HS
D2VW-5-1HS



OF max	200 gf
RF min.	30 gf
PT max.	1.2 mm
OT min.	1.0 mm
MD max.	0.4 mm
OP	14.7 $\pm$ 0.4 mm

Short Hinge Lever Models

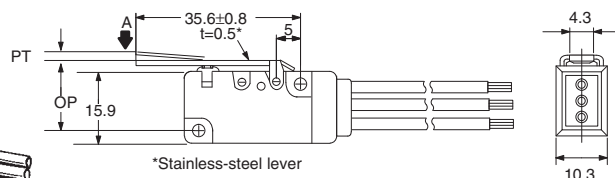
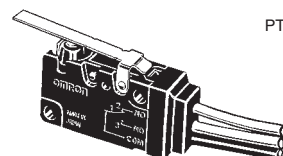
D2VW-01L1A-1MS
D2VW-5L1A-1MS



OF max	200 gf
RF min.	20 gf
PT max.	1.6 mm
OT min.	0.8 mm
MD max.	0.5 mm
OP	15.2 $\pm$ 0.5 mm

Hinge Lever Models

D2VW-01L1-1MS
D2VW-5L1-1MS

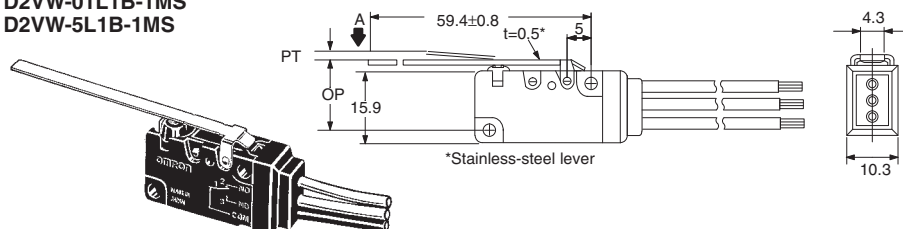


OF max	120 gf
RF min.	15 gf
PT max.	4.0 mm
OT min.	1.6 mm
MD max.	0.8 mm
OP	15.2 $\pm$ 1.2 mm

- 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 operating characteristics are for operation in the A direction(↓)

Long Hinge Lever Models

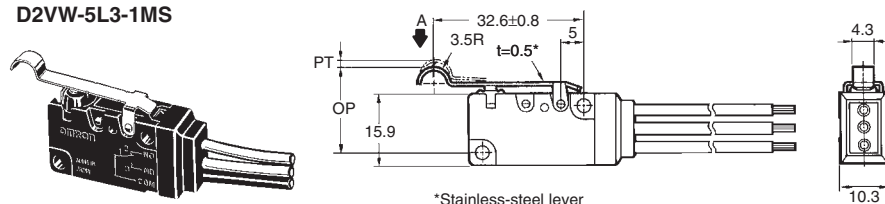
D2VW-01L1B-1MS
 D2VW-5L1B-1MS



OF max	60 gf
RF min.	5 gf
PT max.	9.0 mm
OT min.	3.2 mm
MD max.	2.0 mm
OP	15.2 ± 2.6 mm

Simulated Roller Lever Models

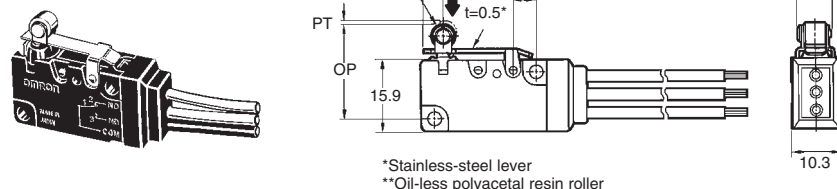
D2VW-01L3-1MS
 D2VW-5L3-1MS



OF max	120 gf
RF min.	15 gf
PT max.	4.0 mm
OT min.	1.6 mm
MD max.	0.8 mm
OP	18.7 ± 1.2 mm

Short Hinge Roller Lever Models

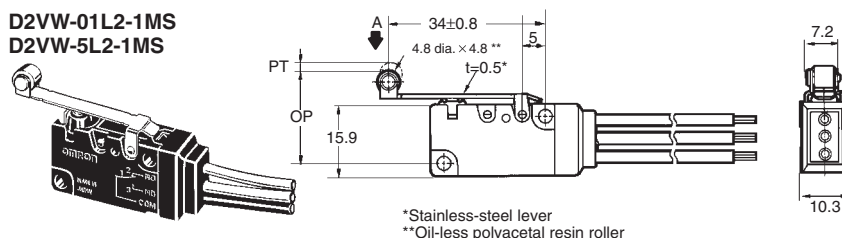
D2VW-01L2A-1MS
 D2VW-5L2A-1MS



OF max	230 gf
RF min.	20 gf
PT max.	1.6 mm
OT min.	0.8 mm
MD max.	0.5 mm
OP	20.7 ± 0.6 mm

Hinge Roller Lever Models

D2VW-01L2-1MS
 D2VW-5L2-1MS



OF max	120 gf
RF min.	15 gf
PT max.	4.0 mm
OT min.	1.6 mm
MD max.	0.8 mm
OP	20.7 ± 1.2 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.

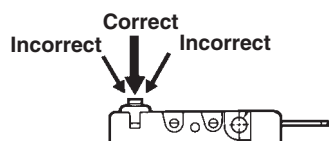
Correct Use

Operations

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.

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.

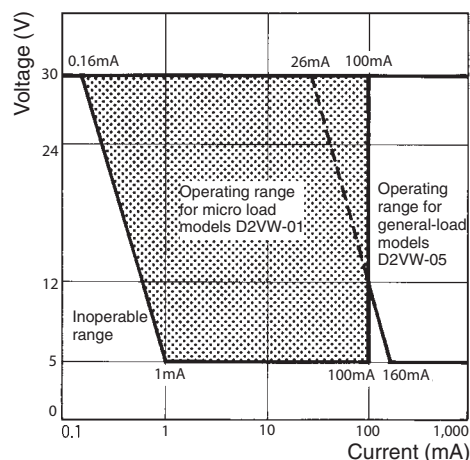


Handling

Handle the switch carefully so as not to break the sealing rubber of the plunger.

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;



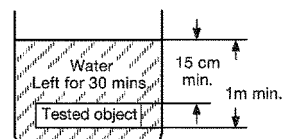
However, even when using microload models within the operating range shown above, if inrush current or inductive voltage spikes occur when the contact is opened or closed, then contact wear may increase and so decrease the service life. Therefore, insert a contact protection circuit where necessary.

Cautions

Degree of Protection

The D2VW was tested under water and passed the following watertightness test, which however, does not mean that the D2VW 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 at OMRON.



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 to or deterioration of the switch materials may occur.

Omron Electronic Components, LLC

Terms and Conditions of Sales

I. GENERAL

- Definitions:** The words used herein are defined as follows.
 - Terms:** These terms and conditions
 - Seller:** Omron Electronic Components LLC and its subsidiaries
 - Buyer:** The buyer of Products, including any end user in section III through VI
 - Products:** Products and/or services of Seller
 - Including:** Including without limitation
- 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.
- Distributor:** Any distributor shall inform its customer of the contents after and including section III of these Terms.

II. SALES

- 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.
- 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.
- 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.
- Orders:** Seller will accept no order less than 200 U.S. dollars net billing.
- 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.
- Governmental Approvals:** Buyer shall be responsible for all costs involved in obtaining any government approvals regarding the importation or sale of the Products.
- 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.
- 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.
- Cancellation; Etc:** Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Seller fully against all costs or expenses arising in connection therewith.
- 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.
- Shipping; Delivery:** Unless otherwise expressly agreed in writing by Seller:
 - 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;
 - Delivery and shipping dates are estimates only; and
 - Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
- 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

- Suitability:** IT IS THE BUYER'S SOLE RESPONSIBILITY 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.
- 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:
 - Outdoor use, use involving potential chemical contamination or electrical interference.

- Use in consumer Products or any use in significant quantities.
 - 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.
 - Systems, machines, and equipment that could present a risk to life or property.
- 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.
 - Motorized Vehicle Application:** USE OF ANY PRODUCT/S FOR A MOTORIZED VEHICLE APPLICATION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY SELLER.
 - Programmable Products:** Seller shall not be responsible for the Buyer's programming of a programmable Product.

IV. WARRANTY AND LIMITATION

- 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.
- Buyer Remedy:** Seller's sole obligation hereunder shall be to replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product or, at Seller's election, to repay or credit Buyer an amount equal to the purchase price of the Product; provided that there shall be no liability for Seller or its affiliates unless Seller's analysis confirms that the Products were correctly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Seller before shipment.
- Limitation on Liability:** SELLER AND ITS AFFILIATES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY. FURTHER, IN NO EVENT SHALL LIABILITY OF SELLER OR ITS AFFILIATES EXCEED THE INDIVIDUAL PRICE OF THE PRODUCT ON WHICH LIABILITY IS ASSERTED.
- Indemnities:** Buyer shall indemnify and hold harmless Seller, its affiliates and its employees from and against all liabilities, losses, claims, costs and expenses (including attorney's fees and expenses) related to any claim, investigation, litigation or proceeding (whether or not Seller is a party) which arises or is alleged to arise from Buyer's acts or omissions under these Terms or in any way with respect to the Products.

V. INFORMATION; ETC.

- Intellectual Property:** The intellectual property embodied in the Products is the exclusive property of Seller and its affiliates and Buyer shall not attempt to duplicate it in any way without the written permission of Seller. Buyer (at its own expense) shall indemnify and hold harmless Seller and defend or settle any action brought against Seller to the extent that it is based on a claim that any Product made to Buyer specifications infringed intellectual property rights of another party.
- Property; Confidentiality:** Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Seller. All information and materials supplied by Seller to Buyer relating to the Products are confidential and proprietary, and Buyer shall limit distribution thereof to its trusted employees and strictly prevent disclosure to any third party.
- Performance Data:** Performance data is provided as a guide in determining suitability and does not constitute a warranty. It may represent the result of Seller's test conditions, and the users must correlate it to actual application requirements.
- Change In Specifications:** Product specifications and descriptions may be changed at any time based on improvements or other reasons. It is Seller's practice to change part numbers when published ratings or features are changed, or when significant engineering changes are made. However, some specifications of the Product may be changed without any notice.
- Errors And Omissions:** The information on Seller's website or in other documentation has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.
- Export Controls:** Buyer shall comply with all applicable laws, regulations and licenses regarding (a) export of the Products or information provided by Seller; (b) sale of Products to forbidden or other proscribed persons or organizations; (c) disclosure to non-citizens of regulated technology or information.

VI. MISCELLANEOUS

- Waiver:** No failure or delay by Seller in exercising any right and no course of dealing between Buyer and Seller shall operate as a waiver of rights by Seller.
- Assignment:** Buyer may not assign its rights hereunder without Seller's written consent.
- Law:** These Terms are governed by Illinois law (without regard to conflict of laws). Federal and state courts in Cook County, Illinois have exclusive jurisdiction for any dispute hereunder.
- Amendment:** These Terms constitute the entire agreement between Buyer and Seller relating to the Products, and no provision may be changed or waived unless in writing signed by the parties.
- Severability:** If any provision hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision.

Certain Precautions on Specifications and Use

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 - (i) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
 - (ii) 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.
 - (iii) Use in consumer products or any use in significant quantities.
 - (iv) Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this product.

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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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