

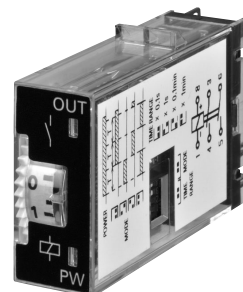
Solid-State Timer

H3RN-□-B

Compact, Multi-function Timers Fit G2R Relay Footprint

- The Push-In Plus Terminal Block Socket-compatible H3RN-□-B Timers in a black design join the Compact, Multi-function H3RN Timers.
- Standard multiple time ranges and multiple operating modes.
- Timers plug into P2RF-PU Sockets with Push-In Plus Terminals reducing wiring time by 60 percent
- UL listed.*
Conforms to CSA and CE Marking.

* When used in combination with a Push-In Plus Terminal Block Socket (P2RF-□-PU).



Refer to *Safety Precautions* on page 6.

For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Model Number Structure

Model Number Legend

H3RN-□□-B
1 2

1. Output

- 1: SPDT
- 2: DPST-NO

2. Time Range

- None: Short-time range (0.1 s to 10 min)
- 1: Long-time range (0.1 min to 10 hrs)

Ordering Information

List of Models

Supply voltage	Time-limit contact	Short-time range model (0.1 s to 10 min)	Long-time range model (0.1 min to 10 h)
24 VAC; 12, 24 VDC	SPDT	H3RN-1-B	H3RN-11-B
	DPST-NO	H3RN-2-B	H3RN-21-B

Note: Specify both the model number and supply voltage when ordering.

Example: H3RN-1-B 24 VAC

Supply voltage

Accessories (Order Separately)

Socket

Timer	Track mounting/Front connecting socket
H3RN-1-B/-11-B	P2RF-05-PU
H3RN-2-B/-21-B	P2RF-08-PU

H3RN-□-B

Specifications

Ratings

Item	H3RN-1-B/H3RN-2-B	H3RN-11-B/H3RN-21-B
Time ranges	0.1 s to 10 min (1 s, 10 s, 1 min, or 10 min max. selectable)	0.1 min to 10 h (1 min, 10 min, 1 h, or 10 hrs max. selectable)
Rated supply voltage *2	24 VAC (50/60 Hz); 12, 24 VDC	
Pin type	Plug-in	
Operating mode	ON-delay, interval, flicker OFF-start, or flicker-ON start selectable by DIP switch	
Operating voltage range	85% to 110% of rated supply voltage (12 VDC: 90% to 110% of rated supply voltage) *1	
Reset voltage	10% max. of rated supply voltage	
Power consumption	24 VAC: Relay ON: approx. 0.8 VA 12 VDC: Relay ON: approx. 0.5 W 24 VDC: Relay ON: approx. 0.4 W	
Control outputs	3 A at 250 VAC, resistive load ($\cos\phi = 1$) (G6B-2□14P-FD-US used (Contact materials : AgSnIn)) The minimum applicable load is 10 mA at 5 VDC (P reference value).	

*1. When using the H3RN in any place where the ambient temperature is more than 50°C, supply 90% to 110% of the rated voltages (12 VDC: 95% to 110% of the rated voltage).

*2. Refer to *Safety Precautions for All Times* when combining the Timer with an AC 2-wire proximity sensor.

Characteristics

Item	H3RN-1-B/H3RN-2-B	H3RN-11-B/H3RN-21-B
Accuracy of operating time	±1% FS max. (1 s range: ±1%±10 ms max.)	
Setting error	±15%±50 ms FS max.	
Reset time	Min. power-opening time: 12, 24 VDC: 0.1 s max. (including halfway reset) 24 VAC: 0.5 s max. (including halfway reset)	
Influence of voltage	±2% FS max.	
Influence of temperature	±2% FS max.	
Insulation resistance	100 MΩ min. (at 500 VDC)	
Dielectric strength	2,000 VAC, 50/60 Hz for 1 min (between operating circuit and control output, or contacts of different poles) 1,000 VAC, 50/60 Hz for 1 min (between non-continuous contacts)	
Vibration resistance	Destruction: 10 to 55 Hz, 0.75-mm single amplitude for 1 h each in 3 directions Malfunction: 10 to 55 Hz, 0.5-mm single amplitude for 10 min each in 3 directions	
Shock resistance	Destruction: 980 m/s ² *1 Malfunction: 100 m/s ²	
Ambient temperature	Operating: -10°C to 55°C (with no icing) Storage: -25°C to 65°C (with no icing)	
Ambient humidity	Operating: 35% to 85%	
Life expectancy	Mechanical: 10,000,000 operations min. (under no load at 1,800 operations/h) Electrical: 100,000 operations min. (3 A at 250 VAC, resistive load at 1,800 operations/h)	
Impulse withstand voltage	Between power terminals: 1 kV	
Noise immunity	±1.5 kV, square-wave noise by noise simulator (pulse width: 100 ns/1 μs, 1-ns rise)	
Static immunity	Destruction: 8 kV Malfunction: 4 kV	
Degree of protection	IP40 (Terminal screw sections are excluded.)	
Weight	Approx. 18 g	
EMC	(EMI) Emission Enclosure: EN 61812-1 Emission AC Mains: EN 55011 Group 1 class A (EMS) Immunity ESD: EN 61812-1 Immunity RF-interference: IEC 61000-4-2 Immunity Burst: IEC 61000-4-3 Immunity Surge: IEC 61000-4-4 Immunity Conducted Disturbance: IEC 61000-4-5 Immunity Voltage Dip/Interruption: IEC 61000-4-6 IEC 61000-4-11	
Approved standards	cULus (or cURus): UL 508/CSA C22.2 No.14 *2, CSA C22.2 No.14 Conforms to EN 61812-1, IEC 60664-1 4 kV/2.	

*1. The destructive shock resistance test was performed on a standalone Timer.

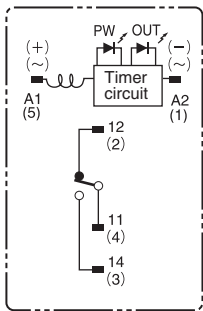
*2. cULus (Listing): Applicable when an OMRON P2RF-□-PU Socket is used.

cURus (Recognition): Applicable when any other socket is used.

Connections

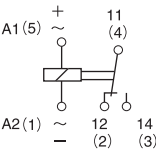
Connection

H3RN-1-B/H3RN-11-B

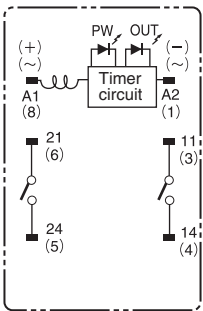


Bottom View

DIN Indication

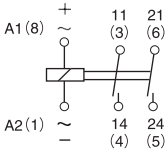


H3RN-2-B/H3RN-21-B



Bottom View

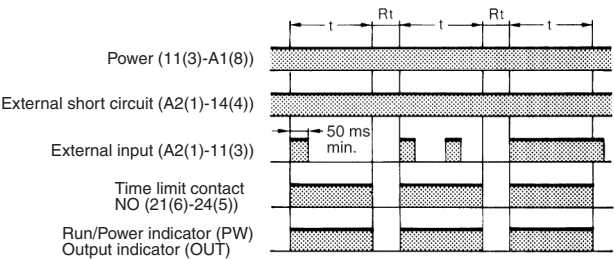
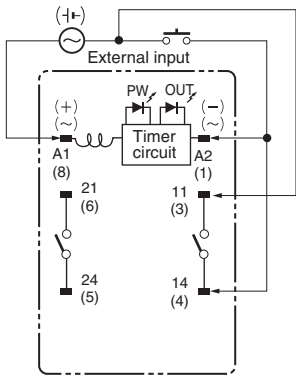
DIN Indication



Pulse Operation

A pulse output for a certain period can be obtained with a random external input signal. Use the H3RN in interval mode as shown in the following timing charts.

H3RN-2-B/H3RN-21-B



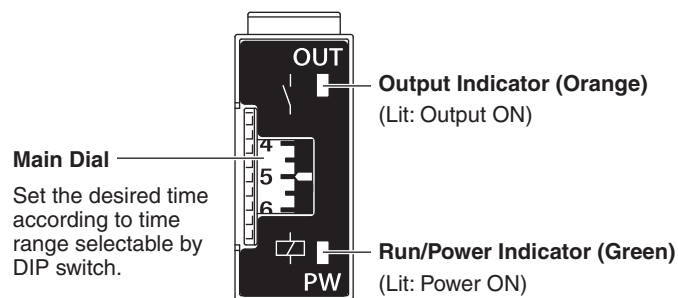
Note: t: Set time
Rt: Reset time

Caution
Be careful when connecting wires.

Mode	Terminals
Pulse operation	Power supply between 11(3) and A1(8) Short-circuit between 14(4) and A2(1) Input signal between 11(3) and A2(1)
Operating mode; interval and all other modes	Power supply between A2(1) and A1(8)

H3RN-□-B

Nomenclature

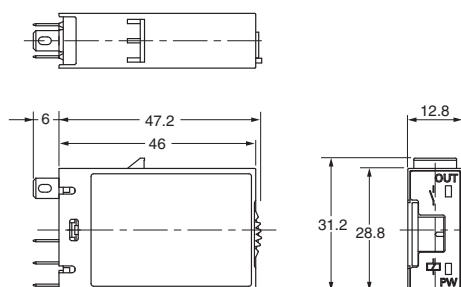
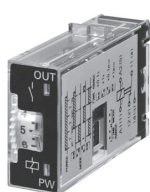


Dimensions

(Unit: mm)

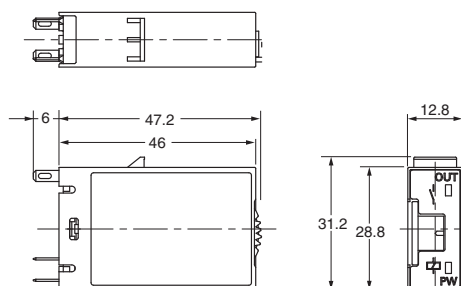
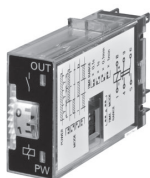
Timers

H3RN-1-B/H3RN-11-B Front Mounting



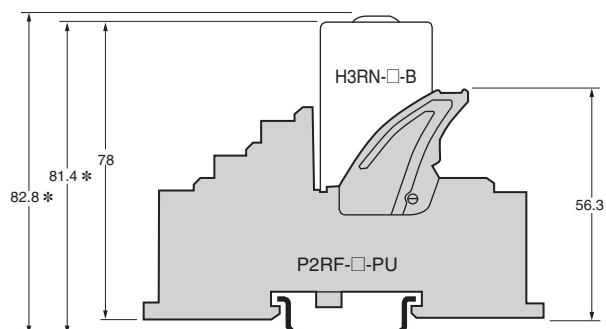
Note: Use the P2RF-08-PU Front-mounting Sockets.

H3RN-2-B/H3RN-21-B Front Mounting



Note: Use the P2RF-08-PU Front-mounting Sockets.

P2RF-□-E



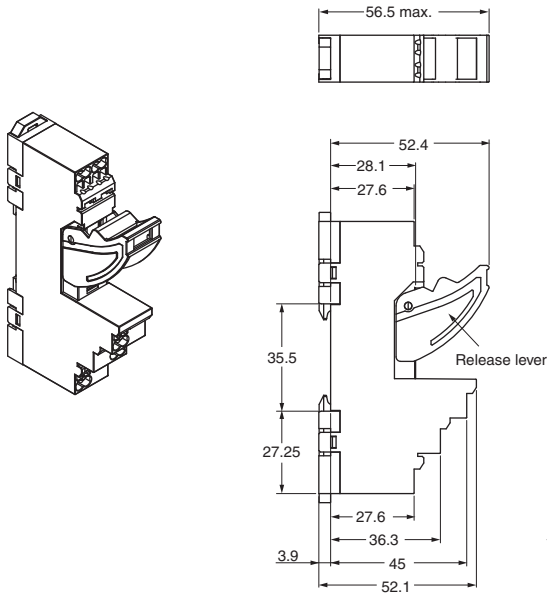
Note: There are no restrictions to the mounting direction.

* These values apply when the PFP-□N is used.

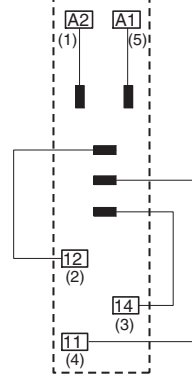
Add 9 mm if you use the PFP-□N2.

Connecting Sockets

P2RF-05-PU

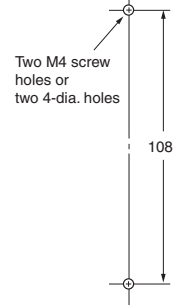


Terminal Arrangement/
Internal Connection Diagram
(TOP VIEW)



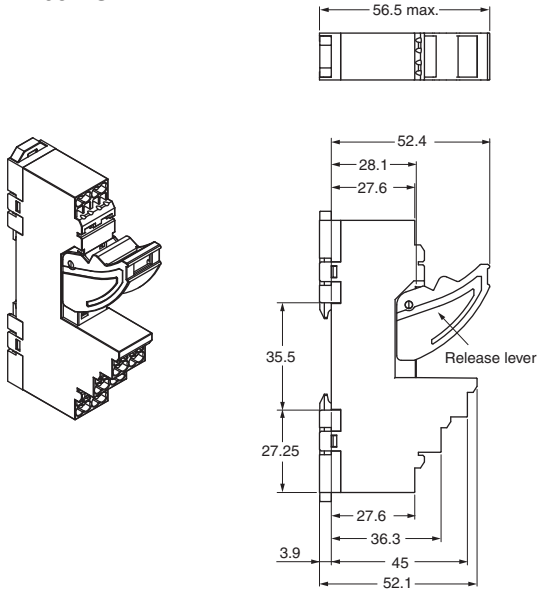
Note: The numbers in parentheses are traditionally used terminal numbers.

Mounting Hole
Dimensions

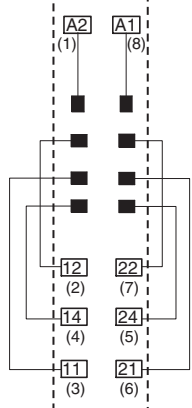


Note: Pull out the hooks to mount the Relay with screws.

P2RF-08-PU

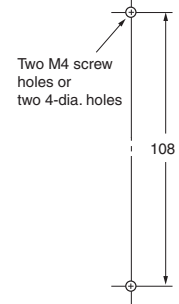


Terminal Arrangement/
Internal Connection Diagram
(TOP VIEW)



Note: The numbers in parentheses are traditionally used terminal numbers.

Mounting Hole
Dimensions



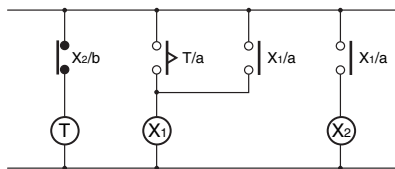
Note: Pull out the hooks to mount the Relay with screws.

H3RN-□-B

Safety Precautions

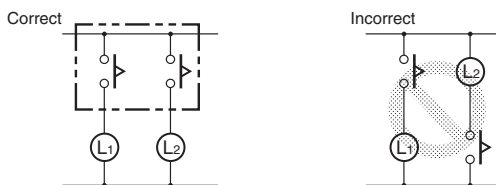
Precautions for Correct Use

- When using the H3RN-□-B in any place where the ambient temperature is more than 50°C, supply 90% to 110% of the rated voltages (at 12 VDC: 95% to 110%).
- Do not leave the H3RN-□-B in time-up condition (i.e., with the internal relay in an ON state) for a long period of time (for example, more than one month in any place where the ambient temperature is high), otherwise the internal parts may become damaged. Therefore, the use of the H3RN-□-B with a relay as shown in the following circuit diagram is recommended.

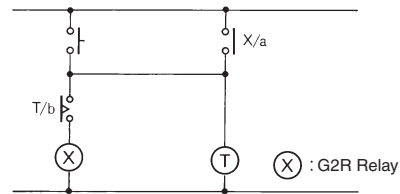


⊗ : Auxiliary relay such as G2R Relay

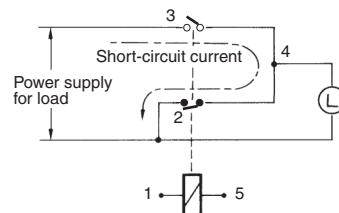
- The H3RN must be disconnected from the socket when setting the DIP switch, otherwise the user may touch a terminal imposed with a high voltage and get an electric shock.
- Do not connect the H3RN-□-B as shown in the following circuit diagram on the right hand side, otherwise the H3RN-□-B's internal contacts different from each other in polarity may become short-circuited.



- Use the following safety circuit when building a self-holding circuit with the H3RN-□-B and an auxiliary relay, such as a G2R Relay, in combination.



- In the case of the above circuit, the H3RN-□-B will be in pulse operation. Therefore, if the circuit shown on page 3 is used, no auxiliary relay will be required.
- Do not use the SPDT contact in a circuit which may cause short-circuiting at three points (otherwise, short-circuiting of the power supply may occur) because the SPDT contact of H3RN-1-B/-11-B is composed of an SPST-NC contact.



- Do not set to the minimum setting in the flicker modes, otherwise the contact may be damaged.
- Do not use the H3RN-□-B in places where there is excessive dust, corrosive gas, or direct sunlight.
- Make sure that there is a space of 3 mm or more between any H3RN-□-B Models next to each other. (When using the P2RF-08-PU Socket, a space of 3 mm or more will be secured.) If a space of 3 mm or more is not secured, the ambient temperature must be less than 50°C.
- The internal parts may become damaged if a supply voltage other than the rated ones is imposed on the H3RN-□-B.

Precautions for EN 61812-1 Conformance

The H3RN-□-B as a built-in timer conforms to EN 61812-1 provided that the following conditions are satisfied.

Handling

- Do not touch the DIP switch while power is supplied to the H3RN-□-B.
- Before dismounting the H3RN-□-B from the socket, make sure that no voltage is imposed on any terminal of the H3RN-□-B.

Wiring

- Basic insulation is ensured between the H3RN-□-B's operating circuit and control output.
Basic insulation: Overvoltage category III, pollution degree 2 (with a clearance of 3.0 mm and a creepage distance of 3.0 mm at 240 VAC)
- When using the P2RF-□-PU Socket, basic insulation is ensured in the mounted condition for a voltage of 250 VAC max.

Recommended Replacement Periods and Periodic Replacement as Preventive Maintenance

The recommended replacement period for preventive maintenance is greatly influenced by the application environment of the product. As a guideline for models that do not have a Maintenance Forecast

Monitor, the recommended replacement period is 7 to 10 years.* To prevent failures that can be caused by using a product beyond its service life, we recommend that you replace the product as early as possible within the recommended replacement period. However, realize that the recommended replacement period is for reference only and does not guarantee the life of the product.

Many electronic components are used in the product and the product depends on the correct operation of these components to achieve product functions and performance. However, the influence of the ambient temperature on aluminum electrolytic capacitors is large, and the service life is reduced by half for each 10°C rise in temperature (Arrhenius law). When the capacity reduction life of the electrolytic capacitor is reached, the product may fail. We therefore recommend that you replace the product periodically to minimize product failures in advance.

* The following conditions apply: rated input voltage, load rate of 50% max., ambient temperature of 35°C max., and the standalone mounting method.









This product model is designed with a service life of 10 years minimum under the above conditions.

Operation

DIP Switch Settings





The 1-s range and ON-delay mode for H3RN-1-B/-2-B, 1-min range and ON-delay mode for H3RN-11-B/-21-B are factory-set before shipping.

Time Ranges

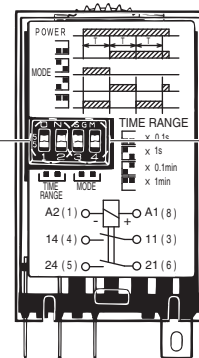
Model	Time range	Time setting range	Setting	Factory-set
H3RN-1-B, H3RN-2-B	1 s	0.1 to 1 s		Yes
	10 s	1 to 10 s		No
	1 min	0.1 to 1 min		No
	10 min	1 to 10 min		No
H3RN-11-B, H3RN-21-B	1 min	0.1 to 1 min		Yes
	10 min	1 to 10 min		No
	1 h	0.1 to 1 h		No
	10 h	1 to 10 h		No

Note: The left two DIP switch pins are used to select the time ranges.

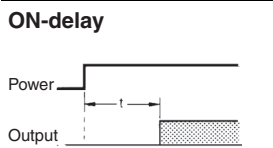
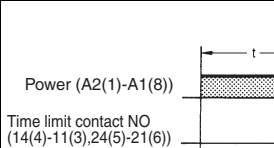
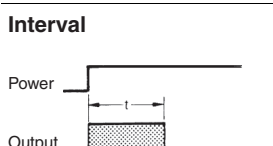
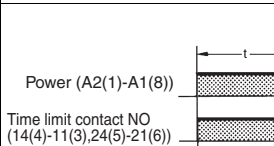
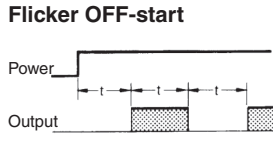
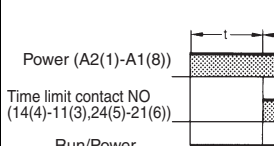
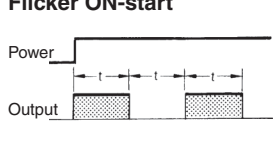
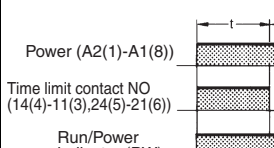
Operating Modes

Operating mode	Setting	Factory-set
ON-delay		Yes
Interval		No
Flicker OFF-start		No
Flicker ON-start		No

Note: The right two DIP switch pins are used to select the operating modes.



Timing Chart

Operating mode	Timing chart	
	H3RN-1-B/H3RN-11-B	H3RN-2-B/H3RN-21-B
ON-delay	<div></div> <div><p>Power (A2(1)-A1(5))</p><p>Time limit contact NC (11(4)-12(2))</p><p>Time limit contact NO (11(4)-14(3))</p><p>Run/Power indicator (PW)</p><p>Output indicator (OUT)</p></div>	<div></div> <div><p>Power (A2(1)-A1(8))</p><p>Time limit contact NO (14(4)-11(3), 24(5)-21(6))</p><p>Run/Power indicator (PW)</p><p>Output indicator (OUT)</p></div>
Interval	<div></div> <div><p>Power (A2(1)-A1(5))</p><p>Time limit contact NC (11(4)-12(2))</p><p>Time limit contact NO (11(4)-14(3))</p><p>Run/Power indicator (PW)</p><p>Output indicator (OUT)</p></div>	<div></div> <div><p>Power (A2(1)-A1(8))</p><p>Time limit contact NO (14(4)-11(3), 24(5)-21(6))</p><p>Run/Power indicator (PW)</p><p>Output indicator (OUT)</p></div>
Flicker OFF-start	<div></div> <div><p>Power (A2(1)-A1(5))</p><p>Time limit contact NC (11(4)-12(2))</p><p>Time limit contact NO (11(4)-14(3))</p><p>Run/Power indicator (PW)</p><p>Output indicator (OUT)</p></div>	<div></div> <div><p>Power (A2(1)-A1(8))</p><p>Time limit contact NO (14(4)-11(3), 24(5)-21(6))</p><p>Run/Power indicator (PW)</p><p>Output indicator (OUT)</p></div>
Flicker ON-start	<div></div> <div><p>Power (A2(1)-A1(5))</p><p>Time limit contact NC (11(4)-12(2))</p><p>Time limit contact NO (11(4)-14(3))</p><p>Run/Power indicator (PW)</p><p>Output indicator (OUT)</p></div>	<div></div> <div><p>Power (A2(1)-A1(8))</p><p>Time limit contact NO (14(4)-11(3), 24(5)-21(6))</p><p>Run/Power indicator (PW)</p><p>Output indicator (OUT)</p></div>

Note: t: Set time
Rt: Reset time

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 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.
2. **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.
3. **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.
4. **Interest.** Omron, at its option, may charge Buyer 1-1/2% interest per month or the maximum legal rate, whichever is less, on any balance not paid within the stated terms.
5. **Orders.** Omron will accept no order less than \$200 net billing.
6. **Governmental Approvals.** Buyer shall be responsible for, and shall bear all costs involved in, obtaining any government approvals required for 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 Omron or required to be collected directly or indirectly by Omron 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 Omron.
8. **Financial.** 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 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 Omron against all related costs or expenses.
10. **Force Majeure.** Omron 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 Omron:
 - a. Shipments shall be by a carrier selected by Omron; Omron will not drop ship except in "break down" situations.
 - b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer;
 - 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. **Claims.** 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 noting that the carrier received the Products from Omron in the condition claimed.
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