## IC Sockets

 XR2
## OMRON's IC Connectors Have Excellent Reliability and Can Tolerate Momentary Interruptions in Power.

- Round pins and 4-point (4-finger) contact construction with contact entry holes that are large for easy insertion.
- IC lead contacts placed high for solid connections.
- A wide product range: open-frame, closed-frame, singlerow, carrier-type DIP terminals, wrap terminals, soldersleeve terminals, and low-profile DIP terminals.
- Conforms to UL standards (file no. E 103202) and CSA standards (file no. LR 62678).



## Construction



Contact Dimensions


## ■ Ratings and Characteristics

| Item | Gold plated | Gold flash plated |
| :---: | :---: | :---: |
| Rated current | 1 A |  |
| Rated voltage | 300 VAC |  |
| Contact resistance | $20 \mathrm{~m} \Omega \mathrm{max}$. (at 20 mV , $100 \mathrm{~mA} \mathrm{max)}$. |  |
| Insulation resistance | $1,000 \mathrm{M} \Omega$ min. (at 500 VDC ) |  |
| Dielectric strength | 1,000 VAC for 1 min (leakage current: 1 mA max.) |  |
| Contact insertion (See note.) | $400 \mathrm{gf}(3.92 \mathrm{~N})$ max. |  |
| Contact removal (See note.) | $65 \mathrm{gf}(0.64 \mathrm{~N}) \mathrm{min}$. with gold plating or with solder plating |  |
| Insertion durability | 100 times ( $0.75-\mu \mathrm{m}$ gold plating), 50 times ( $0.25-\mu \mathrm{m}$ gold plating) | 20 times |
| Ambient temperature | Operating: -55 to $125^{\circ} \mathrm{C}$ (with no icing) |  |

Note: The contact insertion force and contact removal force are for a test gauge, $\mathrm{t}=0.432 \mathrm{~mm}$.

## - Materials and Finish

| Base | Fiber-glass reinforced PBT resin (UL94V-0)/black |
| :--- | :--- |
| Carrier | Aluminum |
| Inner clip | Beryllium copper/nickel base, gold plated |
| Outer sleeve | Brass/nickel base, gold flash plating |

## Applicable Wrap Post Wire Sizes

AWG30, AWG28, AWG26, AWG24
(Solid wire: 0.25 to 0.51 mm dia.)

## Wrap Post Length

3 wires

## Applicable IC Lead Dimensions

DIP, Wrap, and Solder-sleeve Terminals

|  | Depth $\times$ width (mm) |  |
| :--- | :--- | :--- |
| Flat lead | $0.29 \pm 0.09 \times 0.46 \pm 0.08$ (See note.) |  |
| Round lead | 0.53 dia. max. | 0.41 dia. min. |

Note: Do not use wire where the diagonal is more than 0.56 mm .
Low-profile DIP Terminals

|  | Depth $\times$ width (mm) |  |
| :--- | :--- | :--- |
| Flat lead | $0.29 \pm 0.09 \times 0.46 \pm 0.08$ (See note.) |  |
| Round lead | 0.50 dia. max. | 0.41 dia. min. |

Note: Do not use wire where the diagonal is more than 0.52 mm .

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## XR2A Open-frame Sockets

## ■ Dimensions

XR2A- $\square$ 11-N
XR2A-2463-N
XR2A-2473-N
XR2A- $\square 01-\mathrm{N}$
XR2A-2461-N
XR2A-2471-N
XR2A- $\square$ 21-N
XR2A-2467-N
XR2A-2477-N
(With DIP terminals)



DIP terminals Wrap terminals

Mounting holes (bottom view)


## Dimensions

| No. of contacts | Dimensions (mm) |  |
| :--- | :--- | :--- |
|  | A | B |
| 8 | 7.62 | 7.62 |
| 14 | 7.62 | 15.24 |
| 16 | 7.62 | 17.78 |
| 18 | 7.62 | 20.32 |
| 20 | 7.62 | 22.86 |
| 22 | 10.16 | 25.40 |
| 24 <br> (See note 1.) | 15.24 | 27.94 |
| 24 |  |  |
| (See note 2.) | 10.16 | 27.94 |
| 24 | 7.62 | 27.94 |
| $($ See note 3.) | 15.24 | 33.02 |
| 28 | 15.24 | 38.10 |
| 32 | 15.24 | 48.26 |
| 40 | 15.24 | 50.80 |
| 42 | 15.24 | 58.42 |
| 48 | 22.86 | 60.96 |
| 50 | 22.86 | 78.74 |
| 64 |  |  |

Note: 1. XR2A-2401-N/XR2A-2402/
XR2A-2411N/XR2A-2421-N
2. XR2A-2461-N/XR2A-2463-N/ XR2A-2467-N
3. XR2A-2471-N/XR2A-2473-N/ XR2A-2477-N

## ■ Ordering Information

|  | Appearance | Sockets with DIP terminals |  |  | Sockets with wrap terminals |
| :---: | :---: | :---: | :---: | :---: | :---: |
| No of contacts | $\underset{(\mathrm{mm})}{\substack{\text { Row pitch } \\(A)}}$ | With $0.25-\mu \mathrm{m}$ gold plating | With $0.75-\mu \mathrm{m}$ gold plating | With gold flash plating | With $0.75-\mu \mathrm{m}$ gold plating |
| 8 | 7.62 | XR2A-0811-N | XR2A-0801-N | XR2A-0821-N | XR2A-0802 |
| 14 | 7.62 | XR2A-1411-N | XR2A-1401-N | XR2A-1421-N | XR2A-1402 |
| 16 | 7.62 | XR2A-1611-N | XR2A-1601-N | XR2A-1621-N | XR2A-1602 |
| 18 | 7.62 | XR2A-1811-N | XR2A-1801-N | XR2A-1821-N | XR2A-1802 |
| 20 | 7.62 | XR2A-2011-N | XR2A-2001-N | XR2A-2021-N | XR2A-2002 |
| 22 | 10.16 | XR2A-2211-N | XR2A-2201-N | XR2A-2221-N | XR2A-2202 |
| 24 | 15.24 | XR2A-2411-N | XR2A-2401-N | XR2A-2421-N | XR2A-2402 |
| 24 | 10.16 | XR2A-2463-N | XR2A-2461-N | XR2A-2467-N | - |
| 24 | 7.62 | XR2A-2473-N | XR2A-2471-N | XR2A-2477-N | XR2A-2472 |
| 28 | 15.24 | XR2A-2811-N | XR2A-2801-N | XR2A-2821-N | XR2A-2802 |
| 32 | 15.24 | XR2A-3211-N | XR2A-3201-N | XR2A-3221-N | XR2A-3202 |
| 40 | 15.24 | XR2A-4011-N | XR2A-4001-N | XR2A-4021-N | XR2A-4002 |
| 42 | 15.24 | XR2A-4211-N | XR2A-4201-N | XR2A-4221-N | XR2A-4202 |
| 48 | 15.24 | XR2A-4811-N | XR2A-4801-N | - | XR2A-4802 |
| 50 | 22.86 | XR2A-5011-N | XR2A-5001-N | - | - |
| 64 | 22.86 | XR2A-6411-N | XR2A-6401-N | - | XR2A-6402 |

## XR2A Open-frame Sockets (with Low-profile DIP Terminals)

## $\square$ Dimensions

XR2A- $\square \square 15$
XR2A-2466
XR2A-2476
XR2A- $\square 05$
XR2A-2465
XR2A-2475
XR2A- $\square \mathbf{2 5}$
XR2A-2468
XR2A-2478
(With low-profile DIP terminals)


Mounting holes (bottom view)


Dimensions

| No. of contacts | Dimensions (mm) |  |
| :--- | :--- | :--- |
|  | A | B |
| 8 | 7.62 | 7.62 |
| 14 | 7.62 | 15.24 |
| 16 | 7.62 | 17.78 |
| 18 | 7.62 | 20.32 |
| 20 | 7.62 | 22.86 |
| 22 | 10.16 | 25.40 |
| 24 <br> (See note 1.) | 15.24 | 27.94 |
| 24 | 10.16 | 27.94 |
| (See note 2.) | 7.62 | 27.94 |
| 24 |  |  |
| (See note 3.) | 15.24 | 33.02 |
| 28 | 15.24 | 38.10 |
| 32 | 15.24 | 48.26 |
| 40 | 15.24 | 50.80 |
| 42 | 15.24 | 58.42 |
| 48 | 22.86 | 78.74 |
| 64 |  |  |

Note: 1. XR2A-2415/XR2A-2405/ XR2A-2425
2. XR2A-2466/XR2A-2465/ XR2A-2468
3. XR2A-2476/XR2A-2475/ XR2A-2478

## ■ Ordering Information

| No. of contacts | Appearance | Sockets with DIP terminals |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | $\begin{gathered} \text { Row pitch (A) } \\ (\mathrm{mm}) \end{gathered}$ | With $0.25-\mu \mathrm{m}$ gold plating | With $0.75-\mu \mathrm{m}$ gold plating | With gold flash plating |
| 8 | 7.62 | XR2A-0815 | XR2A-0805 | XR2A-0825 |
| 14 | 7.62 | XR2A-1415 | XR2A-1405 | XR2A-1425 |
| 16 | 7.62 | XR2A-1615 | XR2A-1605 | XR2A-1625 |
| 18 | 7.62 | XR2A-1815 | XR2A-1805 | XR2A-1825 |
| 20 | 7.62 | XR2A-2015 | XR2A-2005 | XR2A-2025 |
| 22 | 10.16 | XR2A-2215 | XR2A-2205 | XR2A-2225 |
| 24 | 15.24 | XR2A-2415 | XR2A-2405 | XR2A-2425 |
| 24 | 10.16 | XR2A-2466 | XR2A-2465 | XR2A-2468 |
| 24 | 7.62 | XR2A-2476 | XR2A-2475 | XR2A-2478 |
| 28 | 15.24 | XR2A-2815 | XR2A-2805 | XR2A-2825 |
| 32 | 15.24 | XR2A-3215 | XR2A-3205 | XR2A-3225 |
| 40 | 15.24 | XR2A-4015 | XR2A-4005 | XR2A-4025 |
| 42 | 15.24 | XR2A-4215 | XR2A-4205 | - |
| 48 | 15.24 | XR2A-4815 | XR2A-4805 | - |
| 64 | 22.86 | XR2A-6415 | XR2A-6405 | - |

## XR2B Closed-frame Sockets

## ■ Dimensions

## XR2B-1611-N <br> 



XR2B- $\square 11-N$
XR2B- $\square 01-N$


## Ordering Information

| No. of contacts | Appearance | Sockets with DIP terminals |  |
| :---: | :---: | :---: | :---: |
|  | $\underset{(\mathrm{mm})}{\text { Row pitch (A) }}$ | With $0.25-\mu \mathrm{m}$ gold plating | With $0.75-\mu \mathrm{m}$ gold plating |
| 16 | 7.62 | XR2B-1611-N | XR2B-1601-N |
| 24 | 15.24 | XR2B-2411-N | XR2B-2401-N |
| 28 | 15.24 | XR2B-2811-N | XR2B-2801-N |
| 32 | 15.24 | XR2B-3211-N | XR2B-3201-N |
| 40 | 15.24 | XR2B-4011-N | XR2B-4001-N |

## XR2T Open-frame Sockets with Seal Tape

- Equipped with seal tape to prevent flux cleaning liquids from entering the Socket.
- The same round-pin, 4-point contact structure as the RX2A is used for the contacts.
- The seal tape is made of transparent polyethyle (adhesive portion) and yellow polypropolyene (non-adhesive portion).


## Dimensions

## XR2T- $\square \square 11-\mathrm{N}$ <br> XR2T-2463-N <br> XR2T-2473-N <br> XR2T- $\square 01-\mathrm{N}$ <br> XR2T-2461-N <br> XR2T-2471-N <br> XR2T- $\square \square 21-N$ <br> XR2T-2467-N <br> XR2T-2477-N




Seal tape


Dimensions

| No. of contacts | Dimensions (mm) |  |
| :--- | :--- | :--- |
|  | A | B |
| 8 | 7.62 | 7.62 |
| 14 | 7.62 | 15.24 |
| 16 | 7.62 | 17.78 |
| 18 | 7.62 | 20.32 |
| 20 | 7.62 | 22.86 |
| 22 | 10.16 | 25.40 |
| 24 | 15.24 | 27.94 |
| (See note 1.) | 10.16 | 27.94 |
| 24 | 7.62 | 27.94 |
| See note 2.) | 15.24 | 33.02 |
| 24 | 15.24 | 38.10 |
| See note 3.) | 15.24 | 48.26 |
| 32 | 15.24 | 58.42 |
| 40 |  |  |
| 48 |  |  |

Note: 1. XR2T-2411-N/XR2T-2401-N/ XR2A-2421-N
2. XR2T-2463-N/XR2T-2461-N/ XR2T-2467-N
3. XR2T-2473-N/XR2T-2471-N/ XR2T-2477-N

## ■ Ordering Information

| No. of contacts | Appearance | Sockets with DIP terminals |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | Row pitch (A) (mm) | With $0.25-\mu \mathrm{m}$ gold plating | With $0.75-\mu \mathrm{m}$ gold plating | With gold flash plating |
| 8 | 7.62 | XR2T-0811-N | XR2T-0801-N | XR2T-0821-N |
| 14 | 7.62 | XR2T-1411-N | XR2T-1401-N | XR2T-1421-N |
| 16 | 7.62 | XR2T-1611-N | XR2T-1601-N | XR2T-1621-N |
| 18 | 7.62 | XR2T-1811-N | XR2T-1801-N | XR2T-1821-N |
| 20 | 7.62 | XR2T-2011-N | XR2T-2001-N | XR2T-2021-N |
| 22 | 10.16 | XR2T-2211-N | XR2T-2201-N | XR2T-2221-N |
| 24 | 15.24 | XR2T-2411-N | XR2T-2401-N | XR2T-2421-N |
| 24 | 10.16 | XR2T-2463-N | XR2T-2461-N | XR2T-2467-N |
| 24 | 7.62 | XR2T-2473-N | XR2T-2471-N | XR2T-2477-N |
| 28 | 15.24 | XR2T-2811-N | XR2T-2801-N | XR2T-2821-N |
| 32 | 15.24 | XR2T-3211-N | XR2T-3201-N | XR2T-3221-N |
| 40 | 15.24 | XR2T-4011-N | XR2T-4001-N | XR2T-4021-N |
| 48 | 15.24 | XR2T-4811-N | XR2T-4801-N | --- |

## XR2C Single-row Sockets

## $\square$ Dimensions



XR2C- $\square \square 15$
XR2C- $\square 05$
XR2C- $\square 25$
(With low-profile DIP terminals)


XR2C- $\square 02$
(With wrap terminals)




Dimensions

| No. of <br> contacts | $\mathbf{A}(\mathbf{m m})$ |
| :--- | :--- |
| 20 | 48.26 |
| 32 | 78.74 |

## Ordering Information

| Appearance | No. of contacts | With 0.25- $\mu \mathrm{m}$ gold plating | With 0.75- $\mu \mathrm{m}$ gold plating | With gold flash plating |
| :---: | :---: | :---: | :---: | :---: |
| Sockets with DIP terminals | 10 | XR2C-1011-N | - | - |
|  | 16 | XR2C-1611-N | - | - |
|  | 20 | XR2C-2011-N | XR2C-2001-N | XR2C-2021-N |
|  | 32 | XR2C-3211-N | XR2C-3201-N | XR2C-3221-N |
| Sockets with low-profile DIP terminals | 20 | XR2C-2015 | XR2C-2005 | XR2C-2025 |
|  | 32 | XR2C-3215 | XR2C-3205 | XR2C-3225 |
| Sockets with wrap terminals | 20 | - | XR2C-2002 | - |
|  | 32 | - | XR2C-3202 | - |

## XR2D Double-row Carrier Sockets

## - Dimensions

XR2D- $\square 01-\mathrm{N}$
(With DIP terminals)


## XR2E Single-row Carrier Sockets

## $\square$ Dimensions

XR2E-3201-N
(With DIP terminals)


XR2E-3204
(With solder-sleeve terminals)


Ordering Information

| Appearance | Sockets with DIP Terminals | Sockets with Soldersleeve Terminals |
| :---: | :---: | :---: |
| No. of contacts | With $0.75-\mu \mathrm{m}$ gold plating | With $0.75-\mu \mathrm{m}$ gold plating |
| 32 | XR2E-3201-N | XR2E-3204 |

## XR2H ZIP (Zigzag) Sockets

## Dimensions

XR2H- $\square$ 11-N

(With DIP terminals)


Dimensions

| No. of <br> contacts | Dimensions (mm) |  |
| :--- | :---: | :---: |
|  | A | B |
| 16 | 17.78 | 21.5 |
| 20 | 22.86 | 26.5 |
| 24 | 27.94 | 31.6 |
| 28 | 33.02 | 36.7 |



## ■ Ordering Information

| Appearance | Sockets with DIP <br> terminals |
| :--- | :--- |
| No. of <br> contacts | Witho.25- <br> plating gold <br> 16 |
|  | XR2H-1611-N |
|  | XR2H-2011-N |
| 28 | XR2H-2411-N |

## XR2P Single-row Round Pin Plugs

## Single-row Round Pins for Low-profile Stacking

- Single row with $2.54-\mathrm{mm}$ pitch.
- Low-profile stacking possible in combination with Single-row IC Sockets (XR2C).
- Easily divided into the desired number of contacts.

Ratings and Characteristics

| Rated current | 1 A |
| :--- | :--- |
| Rated voltage | 300 VAC |
| Contact resistance <br> (See note.) | $20 \mathrm{~m} \Omega$ max. (at $20 \mathrm{mV}, 10 \mathrm{~mA}$ max.) |
| Insulation resistance | $1,000 \mathrm{M} \Omega \mathrm{min}$. (at 500 VDC ) |
| Dielectric strength | $1,000 \mathrm{VAC}$ for 1 min (leakage current: <br> 1 mA max.) |
| Ambient operating <br> temperature | -55 to $125^{\circ} \mathrm{C}$ (with no icing at low temper- <br> ature) |

Note: The contact and vibration resistance are the values when the Plug is mated with an XR2C.

## - Dimensions



## Ordering Information

| No. of <br> contacts | Model |
| :--- | :--- |
| 10 | XR2P-1041 |
| 16 | XR2P-1641 |
| 20 | XR2P-2041 |
| 32 | XR2P-3241 |

## Mated Dimensions

XR2P- $\square \square 41$ with XR2C- $\square \square 11-N$ Single-row IC Socket


XR2P-3241 with XR2C-3215
Single-row Low-profile IC Socket

XR2P-3241 with XR2E-3204
Single-row Carrier Socket with Solder-sleeve Terminals


## ■Tools and Accessories

XR2Z-11
IC Holder (made from PBT)


XR2Z-13


Note: Order the following models in multiples of the minimum order.

| Model | No. of IC Socket contacts | IC socket width | Order in multiples of |
| ---: | :--- | :--- | :--- |
| XR2Z-11 | $14,16,18,20,24$ | 7.62 m | 100 |
| XR2Z-13 | $24,28,32,40,42,48$ | 15.24 mm | 500 |

Note: This Holder protects the IC from falling out due to shock. The IC will not fall out even with a $980 \mathrm{~m} / \mathrm{s}^{2}$ shock. Applicable IC height: 2.7 to 5.6 mm .

XY2C-0101
XY2C-0103
IC Removal Tool


| Model | No. of IC Socket contacts | IC socket width |
| :---: | :--- | :--- |
| XY2C-0101 | $14,16,18,20$ | 7.62 m |
| XY2C-0103 | $24,28,32,40$ | 15.24 mm |

## Precautions

## Correct Use

## Soldering

- When soldering, make sure that the outer sleeve of the IC Socket does not stick out of the circuit board through-holes.

- Make sure that no flux enters the IC Socket from the top.


## Removing ICs

- Use the XY2C-0101 or XY2C-0103 IC Removal Tool to remove ICs.
- Do not use a screwdriver to remove the IC. It may damage the circuit board.
- Do not use a testing rod or check pin to check contacts or circuits. This may damage the inner clips or plating and may lead to improper contact.
- Four-point contact construction is used for plated products to make them more tolerant of momentary power interruptions. We recommend using gold-plated contacts in areas subject to vibration and shock.


## Automated Soldering Conditions (Jet Flow)

1. Soldering temperature: $250 \pm 5^{\circ} \mathrm{C}$
2. Continuous soldering time: Within 5 s

## Applicable IC Lead Dimensions

1. Use leads that are within the range shown here. For details, refer to the first page of this datasheet. Use an IC with leads longer than 3 mm . If the leads are too long, the IC will not sit flush on the board.
2. Use an IC with tapered leads for easy insertion, a minimum amount of bending, and minimum damage to the leads.


## MEMO



# Omron Electronic Components, LLC 

## Terms and Conditions of Sales

## . 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
4. 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.
5. 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.
6. 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.
7. Orders: Seller will accept no order less than 200 U.S. dollars net billing.
8. 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.
9. Governmental Approvals: Buyer shall be responsible for all costs involved in obtaining any government approvals regarding the importation or sale of the Products.
10. 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.
11. 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.
12. Cancellation; Etc: Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Seller fully against all costs or expenses arising in connection therewith.
13. 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.
14. 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.
15. 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:
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(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.
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(i) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
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(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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