## omron

# Solid-state Timer

#### Economical, Compact, Plug-in Timer

- Time limit, ON-delay, operation with automatic resetting.
- DIN size (36 x 36 mm), fits standard 8-pin sockets.
- Wide choice of supply voltages: 24, 100 to 120, 200 to 240 VAC, 12, 24 VDC.
- Dual LED indication for power and output status.
- Large transparent setting knob.
- Setting error rating almost matches that of a 48 x 48 timer.
- Conforms to UL and CSA, and meets CE marking requirements.



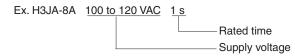


## **Ordering Information**

Stock Note: Shaded models are normally stocked.

Operation/resetting system	Time-limit contact	Mounting method	Rated time	Model
Time-limit operation/ self-resetting	SPDT		1 s, 3 s, 5 s, 10 s, 30 s, 60 s, 3 min, 5 min, 10 min, 30 min, 60 min, 3 hrs	H3JA-8A
	DPDT		1 s, 3 s, 5 s, 10 s, 30 s, 60 s, 3 min, 5 min, 10 min, 30 min, 60 min, 3 hrs	H3JA-8C

Note: Specify the model number, supply voltage, and rated time when ordering.



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## ■ Accessories (Order Separately)

Stock Note: Shaded models are normally stocked.

Na	me/specifications	Model	
Flush mounting adapter		Y92F-31	
Mounting track	50 cm (l) x 7.3 mm (t)	PFP-50N	
	1 m (ℓ) x 7.3 mm (t)	PFP-100N	
	1 m (ℓ) x 16 mm (t)	PFP-100N2	
End plate	·	PFP-M	
Spacer		PFP-S	
Track mounting/ Front connecting socket	8-pin	PF085A	
Back connecting socket	8-pin	P3G-08	
	8-pin, finger safe type	P3G-08 with Y92A-48G (see note 1)	
Hold-down clip (see note 2)	For PF085A Socket	Y92H-6	

Note: 1. Y92A-48G is a finger safe terminal cover which is attached to the P3G-08 Socket.

2. Hold-down Clips are sold in sets of two.

## Specifications

## ■ Time Ranges

Rated time	Time range	Rated time	Time range
1 s	0.1 to 1 s	3 min	0.3 to 3 min
3 s	0.3 to 3 s	5 min	0.5 to 5 min
5 s	0.5 to 5 s	10 min	1 to 10 min
10 s	1 to 10 s	30 min	3 to 30 min
30 s	3 to 30 s	60 min	6 to 60 min
60 s	6 to 60 s	3 hrs	0.3 to 3 hrs

## ■ Ratings

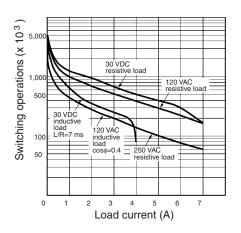
Rated supply voltage	24, 100 to 120 or 200 to 240 VAC (50/60 Hz); 24 VDC; 12 VDC (only available on H3JA-8A model)
Operating voltage range	85% to 110% of rated supply voltage
Power consumption	H3JA-8A         100 to 120 VAC: Approx. 3 VA (1.3 W) at 120 VAC         200 to 240 VAC: Approx. 5 VA (1.5 W) at 240 VAC         24 VAC: Approx. 1.2 VA (0.9 W) at 24 VAC         24 VDC: Approx. 0.8 W at 24 VDC         H3JA-8C         100 to 120 VAC: Approx. 3 VA (1.1 W) at 120 VAC         200 to 240 VAC: Approx. 3 VA (1.1 W) at 120 VAC         200 to 240 VAC: Approx. 5 VA (1.3 W) at 240 VAC         24 VDC: Approx. 1.3 VA (1.1 W) at 240 VAC         24 VAC: Approx. 5 VA (1.3 W) at 240 VAC         24 VAC: Approx. 1.3 VA (1 W) at 24 VAC         24 VDC: Approx. 0.9 W at 24 VDC
Control outputs	H3JA-8A: 7 A at 250 VAC, resistive load H3JA-8C: 5 A at 250 VAC, resistive load

## ■ Characteristics

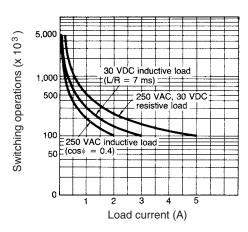
Accuracy of operating time         Setting error         Influence of voltage         Influence of temperature         Insulation resistance         Dielectric strength         Impulse withstand voltage         Noise immunity         Static immunity         Vibration resistance         Shock resistance         Ambient temperature         Ambient humidity         Life expectancy         EMC	±2% max.         ±7% max.         ±2% max.         ±5% max.         100 MΩ min. (at 500 VDC)         2,000 VAC, 50/60 Hz for 1 min (between current-carrying and non-current-carrying parts, and between contact-carrying and control circuit, and between contacts of different poles)         1,000 VAC, 50/60 Hz for 1 min (between non-continuous contacts)         3 kV (between power terminals)         4.5 kV (between power terminals) and ±1.5 kV (between output terminals), square-wave noise by noise simulator (pulse width: 100 ns/1 μs, 1-ns rise)         Destruction: 8 kV         Malfunction: 10 to 55 Hz with 0.75-mm double amplitude in 3 directions for 1 hour each.         Malfunction: 10 to 55 Hz with 0.5-mm double amplitude in 3 directions for 1 hour each.         Destruction: 1,000 m/s²         Malfunction: 100 m/s²         Operating: -10°C to 55°C         Storage: -25°C to 65°C         Operating: 35% to 85%         H3JA-8A         Mechanical: 10,000,000 operations min.         Electrical: 60,000 operations min. (7 A resistive load at 250 VAC, 360 operations/h)
Influence of voltage Influence of temperature Insulation resistance Dielectric strength Impulse withstand voltage Noise immunity Static immunity Vibration resistance Shock resistance Ambient temperature Ambient humidity Life expectancy	±2% max.         ±5% max.         100 MΩ min. (at 500 VDC)         2,000 VAC, 50/60 Hz for 1 min (between current-carrying and non-current-carrying parts, and between contact-carrying and control circuit, and between contacts of different poles)         1,000 VAC, 50/60 Hz for 1 min (between non-continuous contacts)         3 kV (between power terminals)         4.5 kV (between power terminals)         4.5 kV (between current-carrying terminal and exposed non-current-carrying metal parts)         ±1.5 kV (between power terminals) and ±1.5 kV (between output terminals), square-wave noise by noise simulator (pulse width: 100 ns/1 μs, 1-ns rise)         Destruction: 8 kV         Malfunction: 10 to 55 Hz with 0.75-mm double amplitude in 3 directions for 1 hour each.         Malfunction: 10 to 55 Hz with 0.5-mm double amplitude in 3 directions for 10 minutes each.         Destruction: 1,000 m/s²         Malfunction: 100 m/s²         Operating: -10°C to 55°C         Storage: -25°C to 65°C         Operating: 35% to 85%         H3JA-8A         Mechanical: 10,000,000 operations min.
Influence of temperature Insulation resistance Dielectric strength Impulse withstand voltage Noise immunity Static immunity Vibration resistance Shock resistance Ambient temperature Ambient humidity Life expectancy	±5% max.         100 MΩ min. (at 500 VDC)         2,000 VAC, 50/60 Hz for 1 min (between current-carrying and non-current-carrying parts, and between contacts of different poles)         1,000 VAC, 50/60 Hz for 1 min (between non-continuous contacts)         3 kV (between power terminals)         4.5 kV (between power terminals)         ±1.5 kV (between power terminals) and ±1.5 kV (between output terminals), square-wave noise by noise simulator (pulse width: 100 ns/1 μs, 1-ns rise)         Destruction: 8 kV         Malfunction: 10 to 55 Hz with 0.75-mm double amplitude in 3 directions for 1 hour each.         Malfunction: 10 to 55 Hz with 0.5-mm double amplitude in 3 directions for 10 minutes each.         Destruction: 1,000 m/s²         Malfunction: 100 m/s²         Operating: -10°C to 55°C         Storage: -25°C to 65°C         Operating: 35% to 85%         H3JA-8A         Mechanical: 10,000,000 operations min.
Insulation resistance Dielectric strength Impulse withstand voltage Noise immunity Static immunity Vibration resistance Shock resistance Ambient temperature Ambient humidity Life expectancy	100 MΩ min. (at 500 VDC)         2,000 VAC, 50/60 Hz for 1 min (between current-carrying and non-current-carrying parts, and between contact-carrying and control circuit, and between contacts of different poles)         1,000 VAC, 50/60 Hz for 1 min (between non-continuous contacts)         3 kV (between power terminals)         4.5 kV (between current-carrying terminal and exposed non-current-carrying metal parts)         ±1.5 kV (between power terminals) and ±1.5 kV (between output terminals), square-wave noise by noise simulator (pulse width: 100 ns/1 μs, 1-ns rise)         Destruction: 8 kV         Malfunction: 10 to 55 Hz with 0.75-mm double amplitude in 3 directions for 1 hour each.         Malfunction: 10 to 55 Hz with 0.5-mm double amplitude in 3 directions for 10 minutes each.         Destruction: 1,000 m/s²         Malfunction: 100 m/s²         Operating: -10°C to 55°C         Storage: -25°C to 65°C         Operating: 35% to 85%         H3JA-8A         Mechanical: 10,000,000 operations min.
Dielectric strength Impulse withstand voltage Noise immunity Static immunity Vibration resistance Shock resistance Ambient temperature Ambient humidity Life expectancy	2,000 VAC, 50/60 Hz for 1 min (between current-carrying and non-current-carrying parts, and between contact-carrying and control circuit, and between contacts of different poles)         1,000 VAC, 50/60 Hz for 1 min (between non-continuous contacts)         3 kV (between power terminals)         4.5 kV (between current-carrying terminal and exposed non-current-carrying metal parts)         ±1.5 kV (between power terminals) and ±1.5 kV (between output terminals), square-wave noise by noise simulator (pulse width: 100 ns/1 μs, 1-ns rise)         Destruction: 8 kV         Malfunction: 10 to 55 Hz with 0.75-mm double amplitude in 3 directions for 1 hour each.         Malfunction: 10 to 55 Hz with 0.5-mm double amplitude in 3 directions for 10 minutes each.         Destruction: 1,000 m/s²         Malfunction: 100 m/s²         Operating: -10°C to 55°C         Storage: -25°C to 65°C         Operating: 35% to 85%         H3JA-8A         Mechanical: 10,000,000 operations min.
Impulse withstand voltage Noise immunity Static immunity Vibration resistance Shock resistance Ambient temperature Ambient humidity Life expectancy	contact-carrying and control circuit, and between contacts of different poles)         1,000 VAC, 50/60 Hz for 1 min (between non-continuous contacts)         3 kV (between power terminals)         4.5 kV (between current-carrying terminal and exposed non-current-carrying metal parts)         ±1.5 kV (between power terminals) and ±1.5 kV (between output terminals), square-wave noise by noise simulator (pulse width: 100 ns/1 µs, 1-ns rise)         Destruction: 8 kV         Malfunction: 6 kV         Destruction: 10 to 55 Hz with 0.75-mm double amplitude in 3 directions for 1 hour each.         Malfunction: 10 to 55 Hz with 0.5-mm double amplitude in 3 directions for 10 minutes each.         Destruction: 1,000 m/s <sup>2</sup> Malfunction: 100 m/s <sup>2</sup> Operating: -10°C to 55°C         Storage: -25°C to 65°C         Operating: 35% to 85%         H3JA-8A         Mechanical: 10,000,000 operations min.
Noise immunity         Static immunity         Vibration resistance         Shock resistance         Ambient temperature         Ambient humidity         Life expectancy	<ul> <li>4.5 kV (between current-carrying terminal and exposed non-current-carrying metal parts)</li> <li>±1.5 kV (between power terminals) and ±1.5 kV (between output terminals), square-wave noise by noise simulator (pulse width: 100 ns/1 μs, 1-ns rise)</li> <li>Destruction: 8 kV Malfunction: 6 kV</li> <li>Destruction: 10 to 55 Hz with 0.75-mm double amplitude in 3 directions for 1 hour each. Malfunction: 10 to 55 Hz with 0.5-mm double amplitude in 3 directions for 10 minutes each.</li> <li>Destruction: 1,000 m/s<sup>2</sup></li> <li>Malfunction: 100 m/s<sup>2</sup></li> <li>Operating: -10°C to 55°C Storage: -25°C to 65°C</li> <li>Operating: 35% to 85%</li> <li>H3JA-8A Mechanical: 10,000,000 operations min.</li> </ul>
Static immunity Vibration resistance Shock resistance Ambient temperature Ambient humidity Life expectancy	noise simulator (pulse width: 100 ns/1 μs, 1-ns rise)         Destruction: 8 kV         Malfunction: 6 kV         Destruction: 10 to 55 Hz with 0.75-mm double amplitude in 3 directions for 1 hour each.         Malfunction: 10 to 55 Hz with 0.5-mm double amplitude in 3 directions for 1 hour each.         Destruction: 1,000 m/s²         Malfunction: 100 m/s²         Operating: -10°C to 55°C         Storage: -25°C to 65°C         Operating: 35% to 85%         H3JA-8A Mechanical: 10,000,000 operations min.
Vibration resistance Shock resistance Ambient temperature Ambient humidity Life expectancy	Malfunction: 6 kV         Destruction: 10 to 55 Hz with 0.75-mm double amplitude in 3 directions for 1 hour each.         Malfunction: 10 to 55 Hz with 0.5-mm double amplitude in 3 directions for 10 minutes each.         Destruction: 1,000 m/s <sup>2</sup> Malfunction: 100 m/s <sup>2</sup> Operating: -10°C to 55°C         Storage: -25°C to 65°C         Operating: 35% to 85%         H3JA-8A Mechanical: 10,000,000 operations min.
Shock resistance Ambient temperature Ambient humidity Life expectancy	Malfunction: 10 to 55 Hz with 0.5-mm double amplitude in 3 directions for 10 minutes each.         Destruction: 1,000 m/s <sup>2</sup> Malfunction: 100 m/s <sup>2</sup> Operating: -10°C to 55°C         Storage: -25°C to 65°C         Operating: 35% to 85%         H3JA-8A Mechanical: 10,000,000 operations min.
Ambient temperature Ambient humidity Life expectancy	Malfunction: 100 m/s²         Operating: -10°C to 55°C         Storage: -25°C to 65°C         Operating: 35% to 85%         H3JA-8A         Mechanical: 10,000,000 operations min.
Ambient humidity Life expectancy	Storage: -25°C to 65°C         Operating: 35% to 85%         H3JA-8A         Mechanical: 10,000,000 operations min.
Life expectancy	H3JA-8A Mechanical: 10,000,000 operations min.
	Mechanical: 10,000,000 operations min.
EMC	<u>H3JA-8C</u> Mechanical: 10,000,000 operations min. Electrical: 100,000 operations min. (5 A resistive load at 250 VAC, 360 operations/h)
	(EMI) Emission Enclosure: EN55011 Group 1 class A Emission AC Mains: EN55011 Group 1 class A (EMS) Immunity ESD: EN61000-4-2: 6 kV contact discharge (level 3) 8 kV air discharge (level 3) Immunity RF-interference from AM Radio Waves: EN61000-4-3: 10 V/m (80 MHz to 1 GHz) (level 3) Immunity Burst: EN61000-4-4: 2 kV power port and output port (level 3) 1 kV control port with capacitive clamp (level 3) Immunity Surge: EN61000-4-5: 2 kV common mode (level 3) 1 kV differential mode (level 3)
Approved standard	UL508, CSA C22.2 No. 14, conforms to EN61812-1
Case color	Light gray (Munsell 5Y7/1)
Degree of protection	IP40 (panel surface)
Weight	H3JA-8A: Approx. 50 g

## **Engineering Data**

## H3JA-8A



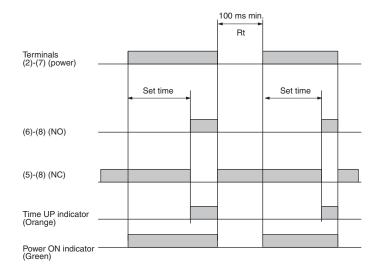
■ H3JA-8C



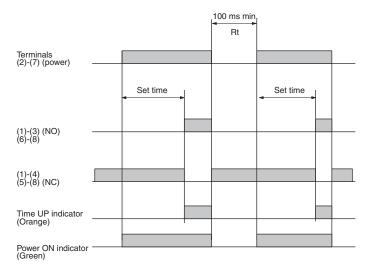
## Operation

## ■ Timing Chart

#### <u>H3JA-8A</u>

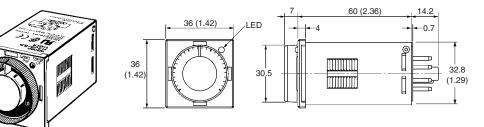


#### H3JA-8C



## Dimensions

Unit: mm (inch)



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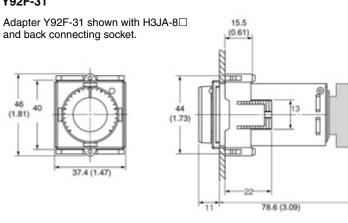
## ■ Accessories (Order Separately

#### **Flush Mounting Adapter**

#### Y92F-31

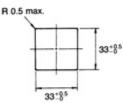
46 40

(1.81)



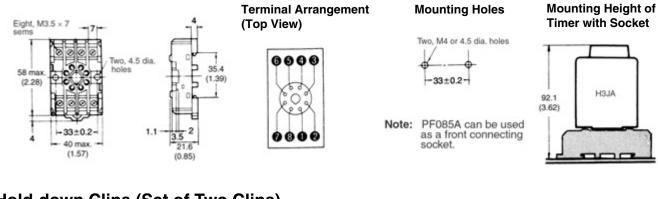
**Panel Cutout** 

Recommended panel thickness: 1 to 5 mm



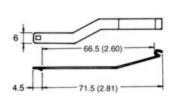
## Track Mounting/Front Connecting Socket

#### **PF085A**



#### Hold-down Clips (Set of Two Clips)

#### Y92H-6 for PF085A

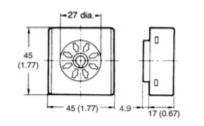




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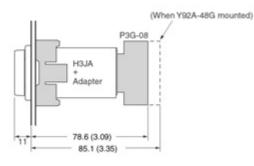
#### **Back Connecting Socket**

#### P3G-08



Terminal Arrangement (Bottom View)

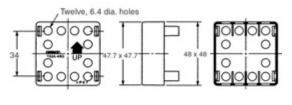


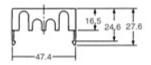


#### Finger Safe Terminal Cover Conforming to VDe0106/P100

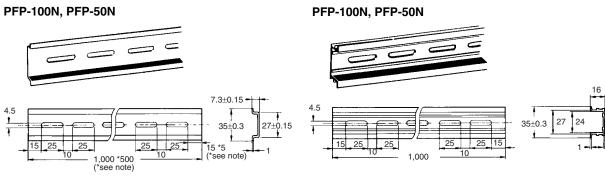
Y92A-48G (Attachments for P3G-08 Socket)



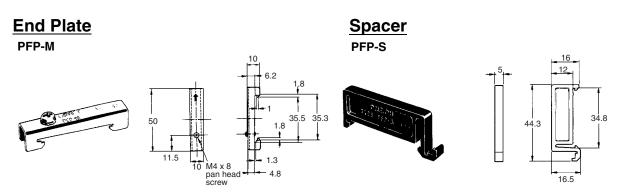




#### Mounting Track



**Note:** The values shown with an asterisk are for the PFP-50N.



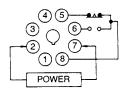
29.2

-1.5

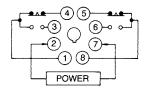
## Installation

## Terminal Arrangement

#### <u>H3JA-8A</u>



#### H3JA-8C



## Certain Terms and Conditions of Sale

- Offer: Acceptance. These terms and conditions (these "Terms") are deemed part of all catalogs, manuals or other documents, whether electronic or in writ-1. ing, relating to the sale of goods or services (collectively, the "<u>Goods</u>") by Omron Electronics LLC and its subsidiary companies ("<u>Seller</u>"). Seller hereby 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. Please contact your Omron representative to confirm any additional terms for sales from your Omron company.
- 2. All prices stated are current, subject to change without notice by Prices.
- <u>Prices</u>. All prices stated are current, subject to change without notice uy Seller. Buyer agrees to pay the price in effect at time of shipment. <u>Discounts</u>. 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 Seller's payment terms and (ii) Buyer has no past due amounts owing to Seller. <u>Orders</u>. Seller will accept no order less than \$200 net billing. <u>Governmental Approvals</u>. Buyer shall be responsible for, and shall bear all costs involved in, obtaining any government approvals required for the importation or sale of the Goods. 3.
- tation or sale of the Goods
- Taxes. All taxes, duties and other governmental charges (other than general 6 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 Goods sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Seller.
- <u>Financial</u>. 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 7. 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 Goods sold hereunder and stop any Goods in transit until Buyer pays all amounts, includ-ing 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. <u>Cancellation; Etc.</u> Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Seller fully against all costs or expenses arising in connection therewith.
- 8.
- 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 9. machinery, acts of subspaces, shortage of habit of materials, actualities to machinery, acts of subspace, riots, delay in or lack of transportation or the requirements of any government authority. <u>Shipping: Delivery</u>. Unless otherwise expressly agreed in writing by Seller: a. Shipments shall be by a carrier selected by Seller; b. Such carrier shall act as the agent of Buyer and delivery to such carrier action.
- 10.
- 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 Goods shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Goods shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Goods until the full purchase price is paid by Buyer;
  d. Delivery and shipping dates are estimates only.
  e. Seller will package Goods as it deems proper for protection against normal handling and extra charges apply to special conditions.
  11. <u>Claims</u>. Any claim by Buyer against Seller for shortage or damage to the Goods occurring before delivery to the carrier must be presented in writing to Seller within 30 days of receipt of shipment and include the original transportation bill signed by the carrier noting that the carrier received the Goods from Seller in the condition claimed.

- <u>Warranties.</u> (a) <u>Exclusive Warranty</u>. Seller's exclusive warranty is that the Goods will be free from defects in materials and workmanship for a period of 12 twelve months from the date of sale by Seller (or such other period expresse twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). Seller disclaims all other warranties, express or implied. (b) Limitations. SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABIL-ITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE GOODS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE GOODS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. Seller further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Goods or other-wise of any intellectual property right. (c) Buyer Remedy. Seller's sole obligawise of any intellectual property right. (c) <u>Buyer Remedy.</u> Seller's sole obliga-tion hereunder shall be to replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the noncomplying Good or, at Seller's election, to repay or credit Buyer an amount equal to the purchase price of the Good; provided that in no event shall Seller be responsible for warrarty, repair, indemnity or any other claims or expenses regarding the Goods unless Seller's analysis confirms that the Goods were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any goods by Buyer must be approved in writing by Seller before shipment. Seller shall not be liable for the suitability or unsuitability or the results from the use of Goods in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be
- advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty.
   <u>Damage Limits: Etc.</u> SELLER SHALL NOT BE LIABLE FOR SPECIAL, INDI-RECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE GOODS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY. Further, in no event shall liability of Seller exceed the individual price of the Good on which liability is asserted.
   <u>Indemnities.</u> Buyer shall indemnify and hold harmless Seller, its affiliates and its employees from and against all liability is costs and
- its employees from and against all liabilities, losses, claims, costs and expenses (including attorney's fees and expenses) related to any claim, inves-tigation, 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 Goods. Without limiting the foregoing, 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 Good made to Buyer specifications infringed intellectual property rights of another party.
- Property: Confidentiality. The intellectual property embodied in the Goods 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. Notwithstand-15
- duplicate it in any way without the written permission of Seller. Notwithstand-ing 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 Goods are confidential and propri-etary, and Buyer shall limit distribution thereof to its trusted employees and strictly prevent disclosure to any third party. <u>Miscellaneous</u>. (a) <u>Waiver</u>. 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. (b) <u>Assignment</u>. Buyer may not assign its rights hereunder without Seller's written consent. (c) <u>Amendment</u>. These Terms constitute the entire agreement between Buyer and Seller relating to the Goods, and no pro-vision may be changed or waived unless in writing signed by the parties. (d) <u>Severability</u>. If any provision hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision. (e) <u>Setoff</u>. Buyer shall have no right to set off any amounts against the amount owing in respect of this 16 no right to set off any amounts against the amount owing in respect of this invoice. (f) As used herein, "including" means "including without limitation".

## **Certain Precautions on Specifications and Use**

- <u>Suitability of Use.</u> Seller shall not be responsible for conformity with any stan-dards, codes or regulations which apply to the combination of the Good in the Buyer's application or use of the Good. At Buyer's request, Seller will provide applicable third party certification documents identifying ratings and limitations of use which apply to the Good. This information by itself is not sufficient for a complete determination of the suitability of the Good in combination with the end product, machine, system, or other application or use. The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of this Good, nor is it intended to imply that the uses listed may be suitable for this Good:
   (i) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
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