# Solid State Relays for Industrial I/O ГК

#### **Reliable SSRs for I/O Module Mounting Boards**

- Use I/O SSRs as an interface between logic circuitry and the load.
- · Variety of AC/DC input and output modules with industry-standard
- footprint and color coding. · Built-in hold down screw fastens relay to board to eliminate loosening by vabration.
- · Optical Isolation Dielectric strength of 4 kV between input and output terminals.
- Zero cross function on AC output models.
- AC and DC input versions incorporate a rectifier to accept both AC or DC inputs.
- UL, CSA and TUV approved; marked with CE.



# **Ordering Information**

## Input Module

Function	Color	Isolation	Input operating voltage range	Logic level output supply voltage	Model
AC input	Yellow	Photo-coupler	90-140 VDC/AC	5 VDC	G3TC-IAC5 AC/DC120
	-ON-	WW.IU	CONT.	15 VDC	G3TC-IAC15 AC/DC120
	M.TW	W TANA	OUT. COMIT	24 VDC	G3TC-IAC24 AC/DC120
	WT.	WWW	180-280 VDC/AC	5 VDC	G3TC-IAC5A AC/DC240
WWW.100Y.COM.I	WW.	The CONT.	15 VDC	G3TC-IAC15A AC/DC240	
	Y. M.TW		1.1001.001.1	24 VDC	G3TC-IAC24A AC/DC240
DC input	White	WW.	10-32 VDC/AC	5 VDC	G3TC-IDC5 DC/AC24
	COM-	W	MILL COMP.	15 VDC	G3TC-IDC15 DC/AC24
	MT.M.		1001. ON	24 VDC	G3TC-IDC24 DC/AC24

# Output Module

Function	Color	Isolation	Rated input voltage	Rated output voltage (Applicable output voltage)	Model
AC output 🛛 🚽	Black	Photo-triac	5 VDC	3 A at 120 VAC	G3TC-OAC5 DC5
	WW.10	CON	15 VDC	(3 A at 75-140 VAC)	G3TC-OAC15 DC15
	11	W.1001.COM.T	24 VDC	N.100 1. COM.1	G3TC-OAC24 DC24
	WWW.		5 VDC	3 A at 240 VAC	G3TC-OAC5A DC5
WWW.I	100Y.COM	15 VDC	(3 A at 75-280 VAC)	G3TC-OAC15A DC15	
		24 VDC		G3TC-OAC24A DC24	
DC output	Red	Photo-coupler	5 VDC	3 A at 60 VDC (3 A at 5-60 VDC)	G3TC-ODC5 DC5
	W		15 VDC		G3TC-ODC15 DC15
		N1001.	24 VDC		G3TC-ODC24 DC24
	WW	N.CC	5 VDC	1 A at 200 VDC	G3TC-ODC5A DC5
		NW.LOO NC	15 VDC	(1 A at 5-200 VDC)	G3TC-ODC15A DC15
		1001.	24 VDC	W.100 r. COM.	G3TC-ODC24A DC24

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# ■Typical Applications 100Y.COM.TW

- HVAC, refrigeration equipment
- Automation controls
- Injection molding machines
- · Packaging equipment

# I/O Classification by Color



# Specifications

# Common Characteristics

Insulation resistance	100 MΩ min at 500 VDC
Dielectric strength	4000 VAC, 50/60 Hz for 1 minute between input and output
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5 mm double amplitude
Shock resistance	Malfunction: 1,000 m/s <sup>2</sup>
Ambient temperature	Operating: -30°C to 80°C with no icing or condensation
	Storage: -30°C to 100°C with no icing or condensation
Ambient humidity	Operating: 45% to 85%
Approved standards	UL Recognized, CSA Certified, EN60950

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# AC Input Module G3TC-IAC

### **Ratings (Ambient Temperature 25°C)**

#### Input

Input						
Item	G3TC-IAC5	G3TC-IAC15	G3TC-IAC24	G3TC-IAC5A	G3TC-IAC15A	G3TC-IAC2
Rated voltage	120 VAC/DC	V V1	N 1 100	240 VAC/DC	•	
Operating voltage	90-140 VAC/DC	11-	WWW.	180-280 VAC/DC		
Must operate voltage	90 VAC/DC max.	.1.	N.10	180 VAC/DC max	۲.	
Must release voltage	25 VAC/DC min.	WTN	WW	45 VAC/DC min.	M	
Input current at rated voltage	5 mA max.	W.	WWW.	5 mA max.	WT	
Input resistance (see note 1)	30 kΩ	M.I.	N.	69 kΩ	-1	

#### Output

Item	G3TC-IAC5	G3TC-IAC15	G3TC-IAC24	G3TC-IAC5A	G3TC-IAC15A	G3TC-IAC
Output supply voltage-nominal	5 VDC	15 VDC	24 VDC	5 VDC	15 VDC	24 VDC
Output supply voltage-range	4.5-6 VDC	12-18 VDC	20-30 VDC	4.5-6 VDC	12-18 VDC	20-30 VDC
Output supply current at rated input voltage (see note 2)	18 mA max.	15 mA max.	12 mA max.	18 mA max.	15 mA max.	12 mA max
Control resistance (Rc in circuit configuration - see note 1)	240 Ω	1 kΩ	2.2 kΩ	240 Ω	1k Ω	2.2k Ω
Output current	50 mA max.	and Con	W	NW . O	N.C. M	•

#### Characteristics

Item	G3TC-IAC5	G3TC-IAC15	G3TC-IAC24	G3TC-IAC5A	G3TC-IAC15A	G3TC-IAC24A
Operate time (see note 3)	20 ms max.	ANY.CO	WTE	NN.	100Y.	TN
Release time (see note 3)	20 ms max.	N. IV.	DNr.	MW.	N.COm	W
Output ON voltage drop	0.4 V max.	100 1.	M.I.		100 - 001	1. L
Leakage current	100 μA max.	N. LOOX.	WTI	ALV.	11001.0	VT.L
Weight	Approx. 40g	-1 N . 1 '	CON.		110	

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3. At nominal output supply voltage, rated input voltage and 25°C. WW.100X.COM.

# DC Input Module G3TC-IDC

### Ratings (Ambient Temperature 25°C)

#### Input

Ratings (Ambient Temperature 2	2 <u>5°C)</u>							
Input								
Item	G3TC-IDC5	G3TC-IDC15	G3TC-IDC24					
Rated voltage	24 VDC/AC	A Marine	WWW.					
Operating voltage	10-32 VDC/ 15-32 VAC	·Mo	N.In. CO.					
Must operate voltage	10 VDC/15 VAC max.	The second	1001.					
Must release voltage	3 VDC/ 3 VAC min.	COM	WWW. OW.C.					
Input current rated voltage	25 mA max.	COM.	W.IOuric					
Input resistance (see note 1)	1.5 kΩ	The second	W 1 1001.					

#### Output

Item	G3TC-IDC5	G3TC-IDC15	G3TC-IDC24
Output supply voltage-nominal	5 VDC	15 VDC	24 VDC
Output supply voltage-range	4.5-6 VDC	12-18 VDC	20-30 VDC
Output supply current at rated input voltage (see note 2)	18 mA max.	15 mA max.	12 mA max.
Control resistance (Rc in circuit configuration - see note 1)	240 Ω	1 kΩ	🔨 2.2 kΩ
Output current	50 mA max.	M. I. COM.	÷

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### Characteristics

Item	G3TC-IDC5	G3TC-IDC15	G3TC-IDC24		
Operate time (see note 3)	5 ms max.	1001. ONL'I'			
Release time (see note 3)	5 ms max.	MTN. VIII			
Output ON voltage drop	0.4 V max.				
Leakage current	100 µA max.	W1001. ONLIN			
Weight	Approx. 40g				

 The input module supplies the current on I/O circuit board at nominal ouput voltage.
 At nominal output supply voltage, rated input voltage and 0500 WWW.100Y.COM.TW

# ■ AC Output Module G3TC-OAC

### Ratings (Ambient Temperature 25°C)

#### Input

Item	G3TC-OAC5	G3TC-OAC15	G3TC-OAC24	G3TC-OAC5A	G3TC-OAC15A	G3TC-OAC24A
Rated voltage	5 VDC	15 VDC	24 VDC	5 VDC	15 VDC	24 VDC
Operating voltage	2.5-8 VDC	9-16 VDC	18-32 VDC	2.5-8 VDC	9-16 VDC	18-32 VDC
Must operate voltage	2.5 VDC max.	9 VDC max.	18 VDC max.	2.5 VDC max.	9 VDC max.	18 VDC max.
Must release voltage	1 VDC min.	WWW.I	N.COM.I	W W	NN.100 Y.CC	WIT
Input current at rated voltage (see note 2)	18 mA max.	WWW.	TOON.COM.	W WT	WW.LOOY.C	WI.M.
Control resistance (Rc in circuit configuration - see note 1)	240 Ω	1 kΩ	2.2 kΩ	240 Ω	1 kΩ	2.2 kΩ

#### Output

Output		N WW	W.1001.CO				
Item	G3TC-OAC5	G3TC-OAC15	G3TC-OAC24	G3TC-OAC5A	G3TC-OAC15A	G3TC-OAC24A	
Rated load voltage	120 VAC			240 VAC			
Load voltage range	75-140 VAC	N NT	1001.	75-280 VAC			
Load current	0.05 to 3 A		WW.Low	COMMENT	WWW.	N.COm	
Inrush current	45 A (60 Hz, 1 cyc	e)	N. 1003	CONT	W	Ton COM	

### Characteristics

Item	G3TC-OAC5	G3TC-OAC15	G3TC-OAC24	G3TC-OAC5A	G3TC-OAC15A	G3TC-OAC24A		
Operate time (see note 3)	1/2 of load power s	1/2 of load power source cycle + 1 ms max.						
Release time (see note 3)	1/2 of load power s	1/2 of load power source cycle + 1 ms max.						
Output ON voltage drop	1.6 V (RMS) max.	Wn	WWW.	N.COF	W W	VI CONT.		
_eakage current	2.5 mA max. (at 120 VAC) 5 mA max. (at 240 VAC)				VAC)	WW.IV		
Weight	Approx. 45g	WT I	W	1001. M	I.M.	100		

WWW.100Y.COM.TW 2. The output module supplies the current on I/O circuit board at nominal input voltage.

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3. At nominal output supply voltage, rated input voltage and 25°C.

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# DC Output Module G3TC-ODC

### **Ratings (Ambient Temperature 25°C)**

#### Input

Input						
Item	G3TC-ODC5	G3TC-ODC15	G3TC-ODC24	G3TC-ODC5A	G3TC-ODC15A	G3TC-ODC24A
Rated voltage	5 VDC	15 VDC	24 VDC	5 VDC	15 VDC	24 VDC
Operating voltage	2.5-8 VDC	9-16 VDC	18-32 VDC	2.5-8 VDC	9-16 VDC	18-32 VDC
Must operate voltage	2.5 VDC max.	9 VDC max.	18 VDC max.	2.5 VDC max.	9 VDC max.	18 VDC max.
Must release voltage	1 VDC min.	NY.CONL.	NW V	W.LONOY.CO	WILL	
Input current at rated voltage (see note 2)	18 mA max.	NOY.CONT	W W	VW. 100Y.CC	MIN	
Control resistance (Rc in circuit configuration - see note 1)	240 Ω	1 kΩ	2.2 kΩ	240 Ω	1 kΩ	2.2 kΩ

# Output

Item	G3TC-ODC5	G3TC-ODC15	G3TC-ODC24	G3TC-ODC5A	G3TC-ODC15A	G3TC-ODC24A
Rated load voltage	60 VDC	W.100 CO	Nr.	200 VDC	V CONT.	
Load voltage range	5-60 VDC	1001.0	M.T.W	5-200 VDC	. ONLY	
Load current	0.01 to 3 A	WW.	WT	0.01 to 1.0 A	NT. STO	
Inrush current	18 A (10 ms)	N.IV.	011.	9 A (10 ms)	CON.	

### Characteristics

Item C	G3TC-ODC5	G3TC-ODC15	G3TC-ODC24	G3TC-ODC5A	G3TC-ODC15A	G3TC-ODC24A	
Operate time (see note 3)	te time (see note 3) 50 μs max.		CONT	100 μs max.			
Release time (see note 3)	50 μs max. (see note 4)		750 μs max.				
Output ON voltage drop	1.6 V max.			AVV	1001.0	WI.M.	
Leakage current	1 mA max. (at 60 VDC)			1 mA max. (at 200 VDC)			
Weight	Approx. 45g		Approx. 40g				

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3. At rated load voltage, maximum rated load current, rated input voltage and 25°C. WWW.100Y.COM.T WWW.100

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# **Engineering Data**

# ■ Internal Circuit

### G3TC-IAC/IDC





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G3TC-OAC

Note: Internal biasing circuitry is different between AC input and DC W.100Y.COM input modules

#### G3TC-ODC



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# ■ Load Current vs. Ambient Temperature Characteristics



# Inrush Current Resitivity

Non-repetitive (Keep inrush current to half the rated value if it occurs.)

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# Dimensions

Note: All units are in millimeters unless otherwise indicated.



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G3TC-ODC5 G3TC-ODC5A G3TC-ODC15 G3TC-ODC15A G3TC-ODC24 G3TC-ODC24A





# WWW.100Y.COM. Approvals

UL Recognized (File No. E64562) / CSA Certified (File No. 35535) - - Ambient Temp. = 40°C

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input
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Model	Input voltage
G3TC-IAC5, -IAC15, -IAC24	90-140 V AC/DC
G3TC-IAC5A, -IAC15A, -IAC24A	180-280 V AC/DC
G3TC-IDC5, -IDC15, -IDC24	10-32 VDC, 12-32 VAC
G3TC-ODC5, -ODC5A, -OAC5, -OAC5A	5 VDC
G3TC-ODC15, -ODC15A, -OAC15, -OAC15A	15 VDC
G3TC-ODC24, -ODC24A, -OAC24, -OAC24A	24 VDC

Output		
Model	Load voltage	Load current
G3TC-IAC5, -IAC15, -IAC24	5/15/24 VDC	50 mA
G3TC-IAC5A, -IAC15A, -IAC24A	5/15/24 VDC	50 mA
G3TC-IDC5, -IDC15, -IDC24	5/15/24 VDC	50 mA
G3TC-ODC5, -ODC15, -ODC24	5-60 VDC	3 A
G3TC-ODC5A, -ODC15A, -ODC24A	5-200 VDC	1 A
G3TC-OAC5, -OAC15, -OAC24	75-140 VAC	3 A
G3TC-OAC5A, -OAC15A, -OAC24A	75-280 VAC	3 A

Note: The rated values approved by each of the safety standards (e.g., UL, CSA and TUV) may be different from the performance characteristics individually defined in this catalog.

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# Precautions

#### -<u>/!</u>\ WARNING -

Do not touch the relay while power is supplied or immediately after G3TC is turned OFF. Doing so may result in burns.

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Do not touch the load terminal of the G3TC immediately after the power is turned OFF, otherwise an electric shock may be received due to the residual charge of the built-in C/R circuit.

#### -A WARNING

Be sure to turn OFF the power supply to the G3TC before wiring, otherwise an electric shock may result.

#### - 🕂 WARNING -

Ensure that a short-circuit current does not flow on the load side of the SSR, otherwise the G3TC may be damaged.

### General Precautions

At OMRON, we are constantly working to improve the quality and reliability of our products. SSRs, however, use semiconductors, which are prone to malfunction. Be sure to use SSRs within their rated value. Use the SSR only in systems that are designed with redundancies, flame protection, counter measures to prevent operation errors, and other countermeasures to prevent accidents involving human life or fires.

- 1. Do not apply excessive voltage or current to the input or output circuit of the G3TC. Doing so may result in malfunction or burning.
- 2. Do not connect the input and output circuits incorrectly. Doing so may result in malfunction or burning.
- **3.** Do not obstruct the flow of air around the G3TC. Abnormal heating of the G3TC may result in short-circuiting of output elements and burning.

## Correct Use

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#### **Before Actual Operation**

- In actual operation, the G3TC may cause accidents that were unforeseeable at the theoretical stage. Therefore, it is necessary to test the G3TC under a variety of conditions that are possible. As for the characteristics of the G3TC, it is necessary to consider the differences between G3TC models.
- 2. The ratings in this datasheet are for testing in a temperature range of 15 to 30°C, a relative humidity range of 25% to 85%, and an atmospheric pressure range of 88 to 106kPa. When testing operation, it is necessary to confirm correct operation not only with the actual load that will be used, but also at the same ambient conditions as for actual operation.
- **3.** The input circuitry does not incorporate a circuit protecting the SSR from being damaged due to a reversed connection. Make sure that the polarity is correct when connecting the input lines.
- **4.** Only use the G3TC with loads that are within the rated values. Using the G3TC with loads outside the rated values may result in malfunction, damage, or burning.
- 5. Use a power supply within the rated frequency range. Using a power supply outside the rated frequency range may result in malfunction, damage, or burning.
- No over-voltage absorption element is built in. Therefore, if the G3TC is connected to an inductive load, be sure to connect an over-voltage absorption element.
- 7. As protection against accidents due to short-circuiting, be sure to install protective devices, such as fuses on the power supply side.
- 8. Keep wiring separate from high-voltage power lines and use wires of an appropriate length, otherwise malfunction and damage may result due to induction.

- 9. For a DC inductive load, a diode should be connected in parallel with the load to absorb the counter electromotive force of the load.
- **10.**For an I/O mounting rack that is installed horizontally, use the G3TC with loads that are within the following conditions.

#### G3TC-OAC5, -OAC5A, -OAC15, -OAC15A, -OAC24, -OAC24A



#### G3TC-ODC5, -ODC15, -ODC24



# Operating and Storage Environments

### **Operating Ambient Temperature**

The rated value for the ambient operating temperature of the G3TC is for when there is no built-up heat. For this, reason, under conditions where heat dissipation is not good due to poor ventilation, and where heat may build up easily, the actual temperature of the G3TC may exceed the rated value resulting in malfunction or burning.

When using the G3TC, design the system to allow heat dissipation sufficient to stay below the Load Current vs. Ambient Temperature characteristic curve. Note also that the ambient temperature of the G3TC may increase as a result of environmental conditions (e.g., climate, air-conditioning) and operating conditions (e.g., mounting in an airtight panel).

### **Operating and Storage Locations**

Do not use or store the G3TC in the following locations. Doing so may result in damage, malfunction, or deterioration of performance characteristics.

- 1. Do not use or store in locations subject to direct sunlight.
- 2. Do not use in locations subject to ambient temperatures outside the range -30° to 80°C.
- **3.** Do not use in locations subject to relative humidity outside the range 45% to 85% or locations subject to condensation as the result of severe change in temperature.
- Do not store in locations subject to ambient temperatures outside the range -30° to 100°C.
- Do not use or store in locations subject to corrosive or flammable gases.
- 6. Do not use or store in locations subject to dust (especially iron dust) or salts.
- 7. Do not use or store in locations subject to shock or vibration.
- 8. Do not use or store in locations subject to exposure to water, oil, or chemicals.

### Transportation

When transporting the G3TC, observe the following points. Not doing so may result in damage, malfunction, or deterioration of performance characteristics.

1. Do not drop the G3TC or subject it to severe vibrations or shock.

2. Do not transport the product if it is wet.

### Vibration and Shock

Do not subject the SSR to excessive vibration or shock. Otherwise the SSR may malfunction and internal components may be damaged.

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#### Omron Electronic Components, LLC

#### Terms and Conditions of Sales

	GENERAL		(d) Systems, mach
1.	Definitions: The words used herein are defined as follows.	3.	Prohibited Use: NE
	(a) Terms: These terms and conditions	0.	SERIOUS RISK TO
	(b) Seller: Omron Electronic Components LLC and its subsidiaries		AS A WHOLE HAS
	(c) Buyer: The buyer of Products, including any end user in section III through VI		PRODUCT IS PRO
	(d) Products: Products and/or services of Seller		WITHIN THE OVER
	(e) Including: Including without limitation	4.	Motorized Vehicle A
2.	Offer: Acceptance: These Terms are deemed part of all quotations, acknowledgments,		<b>VEHICLE APPLICA</b>
	invoices, purchase orders and other documents, whether electronic or in writing, relating		SELLER.
	to the sale of Products by Seller. Seller hereby objects to any Terms proposed in Buyer's	5.	Programmable Prog
	purchase order or other documents which are inconsistent with, or in addition to, these		a programmable Pr
	Terms.		
3.	Distributor: Any distributor shall inform its customer of the contents after and including		WARRANTY A
	section III of these Terms.	1.	Warranty: Seller's e
	SALES		materials and workr
			(or such other perio
10	<u>Prices: Payment</u> : All prices stated are current, subject to change without notice by Seller.		OR REPRESENTAT
	Buyer agrees to pay the price in effect at the time the purchase order is accepted by		NON-INFRINGEME
	Seller. Payments for Products received are due net 30 days unless otherwise stated in the invoice. Puwer shall have no right to set off any amounts against the amount owing in	~	PURPOSE OF THE
	the invoice. Buyer shall have no right to set off any amounts against the amount owing in	2.	Buyer Remedy: Sel
2	respect of this invoice.		originally shipped w
2.	Discounts: Cash discounts, if any, will apply only on the net amount of invoices sent to		thereof) the non-col
	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		amount equal to the
	due amounts owing to Seller.		liability for Seller or
3.	Interest: Seller, at its option, may charge Buyer 1.5% interest per month or the maximum		correctly handled, s
J.	legal rate, whichever is less, on any balance not paid within the stated terms.		abuse, misuse or in
4.	<u>Orders</u> : Seller will accept no order less than 200 U.S. dollars net billing.	2	approved in writing
	<u>Currencies</u> : If the prices quoted herein are in a currency other than U.S. dollars, Buyer	3.	Limitation on Liabili
J.	shall make remittance to Seller at the then current exchange rate most favorable to		SPECIAL, INDIREC
	Seller; provided that if remittance is not made when due, Buyer will convert the amount		PROFITS OR PRO
	to U.S. dollars at the then current exchange rate most favorable to Seller available		WITH THE PRODU WARRANTY, NEGL
	during the period between the due date and the date remittance is actually made.		LIABILITY OF SELI
6.			
0.	any government approvals regarding the importation or sale of the Products.	1	THE PRODUCT ON Indemnities: Buyer
7.	Taxes: All taxes, duties and other governmental charges (other than general real	4.	employees from an
	property and income taxes), including any interest or penalties thereon, imposed directly		attorney's fees and
	or indirectly on Seller or required to be collected directly or indirectly by Seller for the		(whether or not Sell
	manufacture, production, sale, delivery, importation, consumption or use of the Products		omissions under the
	sold hereunder (including customs duties and sales, excise, use, turnover and license		11
	taxes) shall be charged to and remitted by Buyer to Seller.	V.	INFORMATION;
8.	Financial: If the financial position of Buyer at any time becomes unsatisfactory to Seller,	$\sim 1.$	Intellectual Property
	Seller reserves the right to stop shipments or require satisfactory security or payment in		property of Seller a
	advance. If Buyer fails to make payment or otherwise comply with these Terms or any		without the written p
	related agreement, Seller may (without liability and in addition to other remedies) cancel		hold harmless Selle
	any unshipped portion of Products sold hereunder and stop any Products in transit until		that it is based on a
	Buyer pays all amounts, including amounts payable hereunder, whether or not then due,		intellectual property
	which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid	2.	Property: Confident
	accounts.		tooling, all engineer
9.	Cancellation; Etc: Orders are not subject to rescheduling or cancellation unless Buyer		information and ma
	indemnifies Seller fully against all costs or expenses arising in connection therewith.		confidential and pro
10.	<u>Force Majeure</u> : Seller shall not be liable for any delay or failure in delivery resulting from		employees and stric
	causes beyond its control, including earthquakes, fires, floods, strikes or other labor	3.	Performance Data:
	disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots,	3.	and does not consti
	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.	.10	and does not consti and the users must
11.	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. <u>Shipping: Delivery:</u> Unless otherwise expressly agreed in writing by Seller:	3. 4.	and does not consti and the users must Change In Specifica
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- (b) Use in consumer Products or any use in significant quantities.
  - See in consumer Products of any use in significant quantules. 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. <u>hibited Use:</u> NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING RIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM A WHOLE HAS REFEMDESIC DE TO ADDRESS THE DISKS AND THAT THE
- BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE PERLY RATED AND INSTALLED FOR THE INTENDED USE RALL EQUIPMENT OR SYSTEM.
- Application: USE OF ANY PRODUCT/S FOR A MOTORIZED TION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY
- ducts: Seller shall not be responsible for the Buyer's programming of oduct.

#### ND LIMITATION

- xclusive warranty is that the Products will be free from defects in manship for a period of twelve months from the date of sale by Seller d expressed in writing by Seller). SELLER MAKES NO WARRANTY FION, EXPRESS OR IMPLIED, ABOUT ALL OTHER WARRANTIES, NT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PRODUCTS
- ler's sole obligation hereunder shall be to replace (in the form ith Buyer responsible for labor charges for removal or replacement mplying Product or, at Seller's election, to repay or credit Buyer an purchase price of the Product; provided that there shall be no its affiliates unless Seller's analysis confirms that the Products were stored, installed and maintained and not subject to contamination, appropriate modification. Return of any Products by Buyer must be
- by Seller before shipment. ty: SELLER AND ITS AFFILIATES SHALL NOT BE LIABLE FOR ST, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF DUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED LIGENCE OR STRICT LIABILITY. FURTHER, IN NO EVENT SHALL LIGENCE OR STRICT LIABILITY. FURTHER, IN NO EVENT SHALL LER OR ITS AFFILITATES EXCEED THE INDIVIDUAL PRICE OF WHICH LIABILITY IS ASSERTED.
- shall indemnify and hold harmless Seller, its affiliates and its d against all liabilities, losses, claims, costs and expenses (including expenses) related to any claim, investigation, litigation or proceeding er is a party) which arises or is alleged to arise from Buyer's acts or ese Terms or in any way with respect to the Products.

#### ETC.

- <u>r</u>: The intellectual property embodied in the Products is the exclusive nd its affiliates and Buyer shall not attempt to duplicate it in any way permission of Seller. Buyer (at its own expense) shall indemnify and er and defend or settle any action brought against Seller to the extent claim that any Product made to Buyer specifications infringed rights of another party.
- y rights of another party. <u>tiality</u>: Notwithstanding any charges to Buyer for engineering or ring and tooling shall remain the exclusive property of Seller. All aterials supplied by Seller to Buyer relating to the Products are oprietary, and Buyer shall limit distribution thereof to its trusted ictly prevent disclosure to any third party. Performance data is provided as a guide in determining suitability itute a warranty. It may represent the result of Seller's test conditions, t correlate it to actual application requirements
- correlate it to actual application requirements.
- ations: Product specifications and descriptions may be changed at mprovements or other reasons. It is Seller's practice to change part lished ratings or features are changed, or when significant es are made. However, some specifications of the Product may be y notice.
- ns: The information on Seller's website or in other documentation checked and is believed to be accurate; however, no responsibility is al, typographical or proofreading errors or omissions.
- yer shall comply with all applicable laws, regulations and licenses of the Products or information provided by Seller; (b) sale of en or other proscribed persons or organizations; (c) disclosure to nond technology or information.

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- or delay by Seller in exercising any right and no course of dealing 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 4 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.

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Buyer acknowledges that it alone has determined that the Products will meet their

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

requirements of the intended use in <u>all</u> cases. Buyer must know and observe all prohibitions of use applicable to the Product/s.

2.

(a)

# **Certain Precautions on Specifications and Use**

- <u>Suitability for Use</u>. Seller shall not be responsible for conformity with any stan-dards, codes or regulations which apply to the combination of the Product in Buyer's application or use of the Product. At Buyer's request, Seller will provide applicable third party certification documents identifying ratings and limi-tations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Product in com-Sufficient for a complete determination of the suitability of the Product in com-bination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the par-ticular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases but the following is a non-exhaustive list of applications for which particular attention must be given: (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

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Use in consumer products or any use in significant quantities. Systems, machines and equipment that could present a risk to life or (iv) property. Please know and observe all prohibitions of use applicable to this product

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 OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM. WWW.100Y.COM.

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- Programmable Products. Seller shall not be responsible for the user's pro-gramming of a programmable product, or any consequence thereof. Performance Data. Performance data given in this publication is provided as a guide for the user in determining suitability and does not constitute a war-ranty. It may represent the result of Seller's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to Seller's Warranty and Limitations of Liability. Change in Specifications. Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our prac-tice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifica-tions of the Product may be changed without any notice. When in doubt, spe-cial part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Seller representative at any time to confirm actual specifications of purchased Product. <u>Errors and Omissions</u>. The information in this publication has been carefully checked and is believed to be accurate; however, no responsibility is assumed 4.
- 5.
- <u>Errors and Omissions</u>. The information in this publication has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors, or omissions. <u>RoHS Compliance</u>. Where indicated, our products currently comply, to the best of our knowledge as of the date of this publication, with the requirements of the European Union's Directive on the Restriction of certain Hazardous Substances ("RoHS"), although the requirements of RoHS do not take effect until July 2006. These requirements may be subject to change. Please consult our website for current information. 6. WWW.100Y.CO

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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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