A Miniature Power Relay

- Equipped with arc barrier.
- Dielectric strength: 2,000 V.
- Built-in diode models added to the LY Series.
- Single-pole and double-pole models are applicable to operating coils with ratings of 100/110 VAC, 110/120 VAC, 200/220 VAC, 220/240 VAC, or 100/110 VDC).
- Three-pole and four-pole models are applicable to operating coils with ratings of 100/110 VAC, 200/220 VAC, or 100/110 VDC).





Ordering Information -

■ Open Relays

Туре	Contact form	Plug-in/solder terminals	Plug-in/solder terminals with LED indicator	PCB terminals	Upper-mounting plug-in/solder terminals
Standard	SPDT	LY1	LY1N	LY1-0	LY1F
	DPDT	LY2	LY2N	LY2-0	LY2F
	DPDT (bifurcated)	LY2Z	LY2ZN	LY2Z-0	LY2ZF
	3PDT	LY3	LY3N	LY3-0	LY3F
	4PDT	LY4	LY4N	LY4-0	LY4F
With built-in diode	SPDT	LY1-D	LY1N-D2	_	_
(DC only)	DPDT	LY2-D	LY2N-D2	-	_
	DPDT (bifurcated)	LY2Z-D	LY2ZN-D2	_	_
	3PDT	LY3-D	_	_	_
	4PDT	LY4-D	LY4N-D2	-	_
With built-in CR	SPDT	-	_	-	_
(AC only)	DPDT	LY2-CR	LY2N-CR	_	_
	DPDT (bifurcated)	LY2Z-CR	LY2ZN-CR	_	_

Note: 1. When ordering, add the rated coil voltage to the model number. Rated coil voltages are given in the coil ratings table.

Example: LY2, 6 VAC

—— Rated coil voltage

- Relays with #187 quick connect terminals are also available with SPDT and DPDT contact. Ask your OMRON representative for details.
- 3. SEV models are standard Relays excluding DPDT (bifurcated) models.
- 4. VDE- or LR- qualifying Relays must be specified when ordering.

■ Accessories (Order Separately) Sockets

Poles	Front-connecting Socket	Back-connecting Socket				
	DIN track/screw terminals	Plug-in/solder terminals	Wrapping terminals	PCB terminals		
1 or 2	PTF08A-E, PTF08A	PT08	PT08QN	PT08-0		
3	PTF11A	PT11	PT11QN	PT11-0		
4	PTF14A-E, PTF14A	PT14	PT14QN	PT14-0		

Note: 1. For PTF08-E and PTF14A-E, see "Track Mounted Socket."

2. PTF A (-E) Sockets have met UL and CSA standards: UL 508/CSA C22.2.

Mounting Plates for Sockets

Socket model	For 1 Socket	For 10 Sockets	For 12 Sockets	For 18 Sockets
PT08 PT08QN	PYP-1	_	_	PYP-18
PT11 PT11QN	PTP-1-3	-	PTP-12	-
PT14 PT14QN	PTP-1	PTP-10	_	-

Socket-Hold-down Clip Pairings

Relay type	Poles	Front-conne	cting Sockets	Back-connecting Sockets		
		Socket model	Clip model	Socket model	Clip model	
Standard, bifurcated contacts operation indicator, built-in diode	1, 2	PTF08A-E, PTF08A	PYC-A1	PT08(QN), PT08-0	PYC-P	
	3	PTF11A		PT11(QN), PT11-0		
	4	PTF14A-E, PTF14A		PT14(QN), PT14-0		
CR Circuit	2	PTF08A-E, PTF08A	Y92H-3	PT08(QN), PT08-0	PYC-1	

Specifications -

■ Coil Rating

Single- and Double-pole Relays

Rat	ed voltage	Rated	current	Coil Resistance		duction ce value)	Must operate voltage	Must release voltage	Max. voltage	Power consumption (approx.)
		50 Hz	60 Hz		Arm. OFF	Arm. ON	% of rated voltage		age	
AC	6 V	214.1 mA	183 mA	12.2 Ω	0.04 H	0.08 H	80% max.	30% min.	110%	1.0 to
	12 V	106.5 mA	91 mA	46 Ω	0.17 H	0.33 H				1.2 VA (60 Hz)
	24 V	53.8 mA	46 mA	180Ω	0.69 H	1.30 H				(00 112)
	50 V	25.7 mA	22 mA	788ΩW	3.22 H	5.66 H				
	100/110 V	11.7/12.9 mA	10/11 mA	3,750 Ω	14.54 H	24.6 H	1			0.9 to 1 VA
	110/120 V	9.9/10.8 mA	8.4/9.2 mA	4,430 Ω	19.20 H	32.1 H	1			(60 Hz)
	200/220 V	6.2/6.8 mA	5.3/5.8 mA	12,950 Ω	54.75 H	94.07 H]			
	220/240 V	4.8/5.3 mA	4.2/4.6 mA	18,790 Ω	83.50 H	136.40 H				
DC	6 V	150 mA		40 Ω	0.16 H	0.33 H		10% min.		0.9 W
	12 V	75 mA		160 Ω	0.73 H	1.37 H	1			
	24 V	36.9 mA		650 Ω	3.20 H	5.72 H]			
	48 V	18.5 mA		2,600 Ω	10.6 H	21.0 H	1			
	100/110 V	9.1/10 mA		11,000 Ω	45.6 H	86.2 H	1			

Note: See notes on the bottom of next page.

Three-pole Relays

Rat	ed voltage	Rated	current	Coil Resistance		duction ce value)	Must operate voltage	Must release voltage	Max. voltage	Power consumption (approx.)
		50 Hz	60 Hz		Arm. OFF	Arm. ON	%	of rated volt	age	1
AC	6 V	310 mA	270 mA	6.7 Ω	0.03 H	0.05 H	80% max.	30% min.	110%	1.6 to
	12 V	159 mA	134 mA	24 Ω	0.12 H	0.21 H				2.0 VA (60 Hz)
	24 V	80 mA	67 mA	100 Ω	0.44 H	0.79 H	1			(60 HZ)
	50 V	38 mA	33 mA	410 Ω	2.24 H	3.87 H	1			
	100/110 V	14.1/16 mA	12.4/13.7 mA	2,300 Ω	10.5 H	18.5 H]			
	200/220 V	9.0/10.0 mA	7.7/8.5 mA	8,650 Ω	34.8 H	59.5 H				
DC	6 V	234 mA		25.7 Ω	0.11 H	0.21 H	1	10% min.		1.4 W
	12 V	112 mA		107 Ω	0.45 H	0.98 H	1			
	24 V	58.6 mA		410 Ω	1.89 H	3.87 H]			
	48 V	28.2 mA		1,700 Ω	8.53 H	13.9 H	1			
	100/110 V	12.7/13 mA		8,500 Ω	29.6 H	54.3 H	1			

Note: See notes under next table.

Four-pole Relays

Rat	ed voltage	Rated	current	Coil Resistance		duction ce value)	Must operate voltage	Must release voltage	Max. voltage	Power consumption (approx.)
		50 Hz	60 Hz		Arm. OFF	Arm. ON	%	of rated volt	age	
AC	6 V	386 mA	330 mA	5 Ω	0.02 H	0.04 H	80% max.	30% min.	110%	1.95 to
	12 V	199 mA	170 mA	20 Ω	0.10 H	0.17 H	1			2.5 VA (60 Hz)
	24 V	93.6 mA	80 mA	78 Ω	0.38 H	0.67 H]			(00 112)
	50 V	46.8 mA	40 mA	350 Ω	1.74 H	2.88 H				
	100/110 V	22.5/25.5 mA	19/21.8 mA	1,600 Ω	10.5 H	17.3 H	1			
	200/220 V	11.5/13.1 mA	9.8/11.2 mA	6,700 Ω	33.1 H	57.9 H	1			
DC	6 V	240 mA		25 Ω	0.09 H	0.21 H]	10% min.		1.5 W
	12 V	120 mA		100 Ω	0.39 H	0.84 H	1			
	24 V	69 mA		350 Ω	1.41 H	2.91 H	1			
	48 V	30 mA		1,600 Ω	6.39 H	13.6 H	1			
	100/110 V	15/15.9 mA		6,900 Ω	32 H	63.7 H	1			

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for rated currents and ±15% for DC coil resistance.

- 2. Performance characteristic data are measured at a coil temperature of 23°C.
 - 3. AC coil resistance and impedance are provided as reference values (at 60 Hz).
 - Power consumption drop was measured for the above data. When driving transistors, check leakage current and connect a bleeder resistor if required.

■ Contact Rating

Relay		Single	Contact		Bifurcated contacts		
	1-p	oole	2-, 3- 0	or 4-pole	2-pole		
Load	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4, L/R = 7 ms)	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4, L/R = 7 ms)	Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4, L/R = 7 ms)	
Rated Load	110 VAC 15 A 24 VDC 15 A	110 VAC 10 A 24 VDC 7 A	110 VAC 10 A 24 VDC 10 A	110 VAC 7.5 A 24 VDC 5 A	110 VAC 5A 24 VDC 5 A	110 VAC 4 A 24 VDC 4A	
Rated Carry Current	15 A		10 A		7 A		
Max. switching voltage	250 VAC 125 VDC		250 VAC 125 VDC		250 VAC 125 VDC		
Max. switching current	15 A		10 A		7 A		
Max. switching power	1,700 VA 360 W	1,100 VA 170 W	1,100 VA 240 W	825 VA 120 W	550 VA 120 W	440 VA 100 W	
Failure rate (reference value)*	100 mA, 5 VDC		100 mA, 5 VDC		100 mA, 5 VDC		

^{*}Note: P level: $\lambda_{60} = 0.1 \times 10^{-6}$ /operation

■ Characteristics

Item	All except Relays with bifurcated contacts	Relays with bifurcated contacts				
Contact resistance	50 mΩ max.					
Operate time	25 ms max.					
Release time	25 ms max.					
Max. operating frequency	Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr (under rated load)					
Insulation resistance	100 MΩ min. (at 500 VDC)					
Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between contact: 2,000 VAC, 50/60 Hz for 1 min between contact:					
Vibration resistance		Destruction: 10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.5 mm single amplitude (1.0 mm double amplitude)				
Shock resistance	Destruction: 1,000 m/s ² Malfunction: 200 m/s ²					
Endurance	Mechanical: AC: 50,000,000 operations min. (at DC: 1,00,000,000 operations min. (at 18,000 operations min. (at 18,000 operations). Electrical: Single-, three-, and four-pole: 200,000 (at 1,800 operations/hr under rated load) Double-pole: 500,000 operations min. (at 1,800 operations).	erations/hr) 0 operations min.				
Ambient temperature* Operating: Single- and double-pole standard, bifurcated-contact Relays: -25°C to 55°C (with (-25°C to 70°C if carry current is 4 A or less) All other Relays: -25°C to 40°C (with no icing) (-25°C to 55°C if carry current is 4 A or less)						
Ambient humidity	Operating: 5% to 85%					
Weight	Single- and double-pole: approx. 40 g, three-pole: approx. 50 g, four-pole: approx. 70 g					

Note: 1. The values given above are initial values

^{2.} The upper limit of 40°C for some Relays is because of the relationship between diode junction temperature and the element used.

■ Endurance Under Real Loads (reference only)

LY1

Rated voltage	Load type	Conditions	Operating frequency	Electrical life
100 VAC	AC motor	400 W, 100 VAC single-phase with 35-A inrush current, 7-A current flow	ON for 10 s, OFF for 50 s	50,000 operations
	AC lamp	300 W, 100 VAC with 51-A inrush current, 3-A current flow	ON for 5 s, OFF for 55 s	100,000 operations
		500 W, 100 VAC with 78-A inrush current, 5-A current flow		25,000 operations
	Capacitor (2,000 µF)	24 VDC with 50-A inrush current, 1-A current flow	ON for 1 s, OFF for 6 s	100,000 operations
	AC solenoid	50 VA with 2.5-A inrush current, 0.25-A current flow	ON for 1 s, OFF for 2 s	1,500,000 operations
		100 VA with 5-A inrush current, 0.5-A current flow		800,000 operations

LY2

Rated voltage	Load type	Conditions	Operating frequency	Electrical life
100 VAC	AC motor	200 W, 100 VAC single-phase with 25-A inrush current, 5-A current flow	ON for 10 s, OFF for 50 s	200,000 operations
	AC lamp	300 W, 100 VAC with 51-A inrush current, 3-A current flow	ON for 5 s, OFF for 55 s	80,000 operations
	Capacitor (2,000 µF)	24 VDC with 50-A inrush current, 1-A current flow	ON for 1 s, OFF for 15 s	10,000 operations
		24 VDC with 20-A inrush current, 1-A current flow		150,000 operations
	AC solenoid	50 VA with 2.5-A inrush current,, 0.25-A current flow	ON for 1 s, OFF for 2 s	1,000,000 operations
		100 VA with 5-A inrush current, 0.5-A current flow		500,000 operations

LY4

Rated voltage	Load type	Conditions	Operating frequency	Electrical life
100 VAC	AC motor	200 W, 200 VAC triple-phase with 5-A inrush current, 1-A current flow	ON for 10 s, OFF for 50 s	500,000 operations
		750 W, 200 VAC triple-phase with 18-A inrush current, 3.5 A current flow		70,000 operations
	AC lamp	300 W, 100 VAC with 51-A inrush current, 3-A current flow	ON for 5 s, OFF for 55 s	50,000 operations
	Capacitor (2,000 µF)	24 VDC with 50-A inrush current, 1-A current flow	ON for 1 s, OFF for 15 s	5,000 operations
		24 VDC with 20-A inrush current, 1-A current flow	ON for 1 s, OFF for 2 s	200,000 operations
	AC solenoid	50 VA with 2.5-A inrush current, 0.25-A current flow	ON for 1 s, OFF for 2 s	1,000,000 operations
		100 VA with 5-A inrush current, 0.5-A current flow		500,000 operations

■ Approved Standards UL 508 Recognitions (File No. 41643)

No. of poles	Coil ratings	Contact ratings	Operations
1	6 to 240 VAC 6 to 125 VDC	15 A, 30 VDC (Resistive) 15 A, 240 VAC (General use)	6 x 10 ³
/Τ	TV-5, 120 VAC 1/2 HP, 120 VAC	25 x 10 ³	
2	15 A, 28 VDC (Resistive) 15 A, 120 VAC (Resistive) 12 A, 240 VAC (General use)	6 x 10 ³	
1/2 HP, 120 VAC TV-3, 120 VAC	1/2 HP, 120 VAC	25 x 10 ³	
3 and 4		10 A, 30 VDC (Resistive) 10 A, 240 VAC (General use) 1/3 HP, 240 VAC	6 x 10 ³

CSA 22.2 No. 14 Listings (File No. LR31928)

No. of poles	Coil ratings	Contact ratings	Operations
1	6 to 240 VAC 6 to 125 VDC	15 A, 30 VDC (Resistive) 15 A, 120 VAC (General use)	6 x 10 ³
		1/2 HP, 120 VAC TV-5, 120 VAC	25 x 10 ³
2		15 A, 30 VDC (Resistive) 15 A, 120 VAC (Resistive) 1/2 HP, 120 VAC TV-3, 120 VAC	6 x 10 ³
3 and 4		10 A, 30 VDC (Resistive) 10 A, 240 VAC (General use)	

SEV Listings (File No. D3,31/137)

No. of poles	Coil ratings	Contact ratings	Operations
1	6 to 240 VAC 6 to 125 VDC	15 A, 24 VDC 15 A, 220 VAC	6 x 10 ³
2 to 4		10 A, 24 VDC 10 A, 220 VAC	

TÜV (File No. R9251226) (IEC255)

No. of poles	Coil ratings	Contact ratings	Operations
1 to 4	6 to 125 VDC 6 to 240 VAC	LY1, LY1-FD 15 A, 110 VAC $(\cos \varphi = 1)$ 10 A, 110 VAC $(\cos \varphi = 0.4)$ LY2, LY2-FD, LY3, LY3-FD, LY4, LY4-FD 10 A, 110 VAC $(\cos \varphi = 1)$ 7.5 A, 110 VAC $(\cos \varphi = 0.4)$	100 x 10 ³

VDE Recognitions (No. 9903UG and 9947UG)

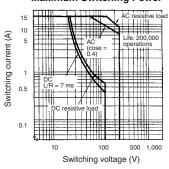
No. of poles	Coil ratings	Contact ratings	Operations
1	6, 12, 24, 50, 110, 220 VAC 6, 12, 24, 48, 110 VDC	$\begin{array}{l} 10~\text{A, } 220~\text{VAC (}cos\phi = 1) \\ 7~\text{A, } 220~\text{VAC (}cos\phi = 0.4) \\ 10~\text{A, } 28~\text{VDC (}L/\text{R} = 0~\text{ms)} \\ 7~\text{A, } 28~\text{VDC (}L/\text{R} = 7~\text{ms)} \end{array}$	200 x 10 ³
2		$ 7 \text{ A, } 220 \text{ VAC } (\cos \varphi = 1) \\ 4 \text{ A, } 220 \text{ VAC } (\cos \varphi = 0.4) \\ 7 \text{ A, } 28 \text{ VDC } (L/R = 0 \text{ ms}) \\ 4 \text{ A, } 28 \text{ VDC } (L/R = 7 \text{ ms}) $	

■ Approved Standards (cont.) LR Recognitions (No. 563KOB-204523)

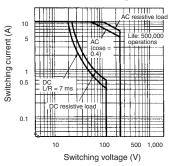
No. of poles	Coil ratings	Contact ratings
2, 4	6 to 240 VAC 6 to 110 VDC	7.5 A, 230 VAC (PF0.4) 5 A, 24 VDC (L/R=7 ms)

Engineering Data -

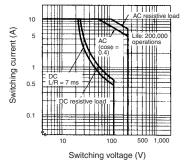
LY1 Maximum Switching Power



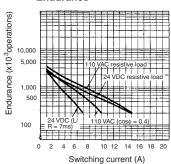
LY2 Maximum Switching Power



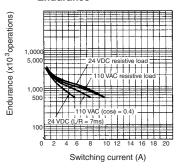
LY3 and LY4 Maximum Switching Power



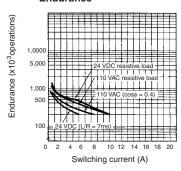
Endurance



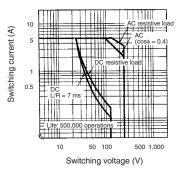
Endurance

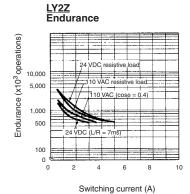


Endurance



<u>LY2Z</u> Maximum Switching Power





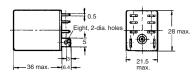
Dimensions -

Note: All units are in millimetres unless otherwise indicated.

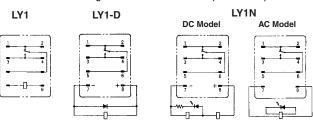
■ Relays with Solder/Plug-in Terminals

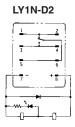
LY1 LY1N (-D2) LY1-D





Terminal Arrangement/Internal Connections (Bottom View)



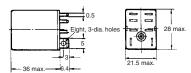


Note: The DC models have polarity.

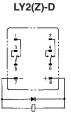
LY2 LY2Z LY2-D LY2Z-D LY2N LY2ZN LY2N-D2 LY2ZN-D2

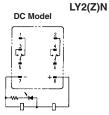
Terminal Arrangement/Internal Connections (Bottom View)

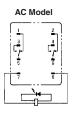


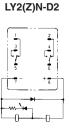








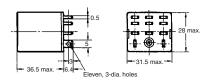




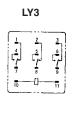
Note: The DC models have polarity.

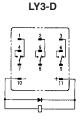
LY3 LY3N LY3-D

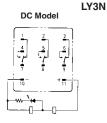


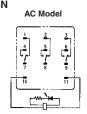


Terminal Arrangement/Internal Connections (Bottom View)





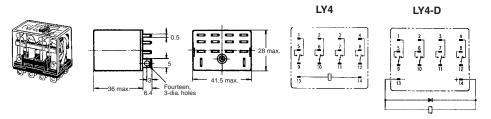


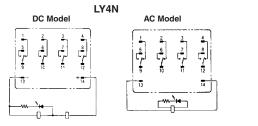


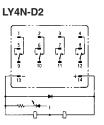
Note: The DC models have polarity.

LY4 LY4-D LY4N LY4N-D2

Terminal Arrangement/Internal Connections (Bottom View)

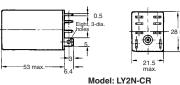




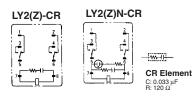


Note: The DC models have polarity.





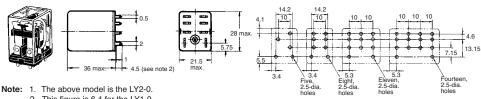




■ Relays with PCB Terminals

LY1-0 LY3-0 LY2-0 LY4-0

PC Board Holes (Bottom View)



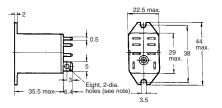
2. This figure is 6.4 for the LY1-0

- Note: 1. The tolerance for the above figures is 0.1 mm.
 - 2. Besides the terminals, some part of the LY1-0 carries current. Due attention should be paid when mounting the LY1-0 to a double-sided PC board.

■ Upper Mounting relays

LY1F LY2F





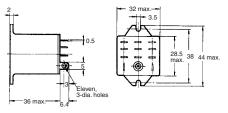
Mounting Holes



Note: 1. Eight 3-dia. holes should apply to the LY2F model.

LY3F

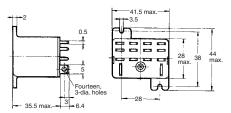






LY4F





Mounting holes



■ Mounting Height with Socket

The following Socket heights should be maintained.

Front-connecting 71 (see note) 67 (84)

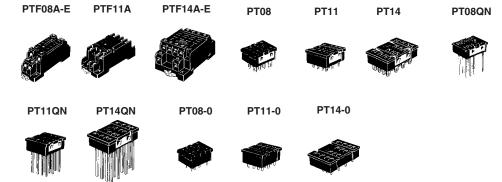
PTF□A (-E)

Back-connecting

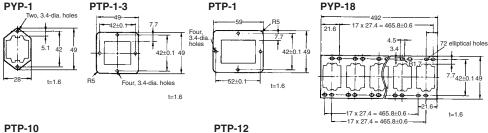


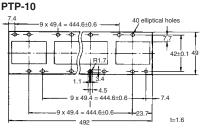
- Note: 1. The PTF□A (-E) can be track-mounted or screw-mounted.
 - For the LY□-CR (CR circuit built-in type) model, this figure should be 88.

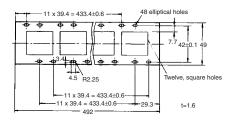
■ Sockets



Mounting Plates for Back-connecting







■ Hold-down Clips

Hold-down clips are used to hold Relays to Sockets and prevent them from coming loose due to vibration or shock.

Used with Socket		Used with Socket mounting plate	For CR circuit built-in Relay	
PYC-A1	PYC-P	PYC-S	Y92H-3	PYC-1

Precautions -

■ Connections

Do not reverse polarity when connecting DC-operated Relays with built-in diodes or indicators.

ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.

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

Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES. EXPRESS OR IMPLIED.

LIMITATIONS OF LIABILITY

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS, OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the product.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products 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 the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear 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.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS 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.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the product may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased product.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

ERRORS AND OMISSIONS

The information in this catalog has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

COPYRIGHT AND COPY PERMISSION

This catalog shall not be copied for sales or promotions without permission.

This catalog is protected by copyright and is intended solely for use in conjunction with the product. Please notify us before copying or reproducing this catalog in any manner, for any other purpose. If copying or transmitting this catalog to another, please copy or transmit it in its entirety.

Cat. No. J002-E2-10 2007.3

OMRON Corporation Industrial Automation Company

In the interest of product improvement, specifications are subject to change without notice.