CSM\_D4CC\_DS\_E\_3\_1

(VL)LISTED (SP

# Many Models Including Roller Lever Switches are Only 16-mm Thick with Connector

- New center roller lever models that enable ganged mounting of up to 6 Switches.
- Cable connectors for easy Switch replacement.
- Triple-seal construction to provide IEC IP67 degree of protection.
- Operation indicators available for easy monitoring (standard indicator is lit when Switch is not operating).
- Approved by UL and CSA. (Ask your OMRON representative for Information on approved models.)





Be sure to read Safety Precautions on page 7 to 8

# **Model Number Structure**

Model Number Legend (Not all combinations are possible. Ask your OMRON representative for details.)

(1) (2)

# (1) Rated Current

1:1 A at 125 VAC

2:1 A at 125 VAC (with LED indicator)

3:1 A at 30 VDC

4:1 A at 30 VDC (with LED indicator)

# (2) Actuator

01: Pin plunger 02: Roller plunger 03: Crossroller plunger 24: Roller lever

31 : Sealed pin plunger 32 : Sealed roller plunger

33 : Sealed crossroller plunger

50: Plastic rod 60: Center roller lever

# **Ordering Information**

# **Switches**

# **Limit Switches**

	Ratings	1 A at 1	25 VAC	1 A at 3	30 VDC
	LED indicator	Without indicator	With indicator	Without indicator	With indicator
Actuator		Model	Model	Model	Model
Pin plunger	Δ	D4CC-1001	D4CC-2001	D4CC-3001	D4CC-4001
Roller plunger	R	D4CC-1002	D4CC-2002	D4CC-3002	D4CC-4002
Crossroller plunger	凸	D4CC-1003	D4CC-2003	D4CC-3003	D4CC-4003
High-sensitivity roller lever	P	D4CC-1024	D4CC-2024	D4CC-3024	D4CC-4024
Sealed pin plunger	Δ	D4CC-1031	D4CC-2031	D4CC-3031	D4CC-4031
Sealed roller plunger	2	D4CC-1032	D4CC-2032	D4CC-3032	D4CC-4032
Sealed crossroll plunger	er	D4CC-1033		D4CC-3033	D4CC-4033
Plastic rod		D4CC-1050	D4CC-2050	D4CC-3050	D4CC-4050
Center roller lever	<u> </u>	D4CC-1060	D4CC-2060	D4CC-3060	D4CC-4060

Note: 1. Ask your OMRON representative for Information on approved models.

and Safety Precautions for All Limit Switches.

<sup>2.</sup> The meaning of suffix codes in the D4CC model numbers is different from that in the D4C model numbers.

<sup>3.</sup> Refer to the following table for cable plugs.

# **Applicable Cables**

		Туре	For AC	For DC
Appearance	No. of conductors	Cable length	Model	Model
Straight		1 m	XS2F-A421-C90-A	XS2F-D421-C80-A
	4	2 m	XS2F-A421-D90-A	XS2F-D421-D80-A
	4	5 m	XS2F-A421-G90-A	XS2F-D421-G80-A
		10 m	XS2F-A421-J90-A	XS2F-D421-J80-A

# **Special Mounting Plate (Order Separately)**

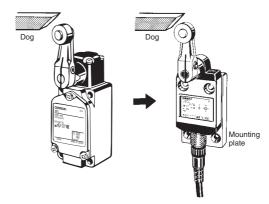
It is possible to replace an WL Limit Switch with a D4CC Limit Switch mounted on this plate without changing the position of the dog or cam.

# **List of Replaceable Models**

WL model (Actuator)	D4CC model (Actuator)	Plate
WLD (Top plunger)	→ D4CC-□001 (Plunger)	D4C-P001
WLD2 (Top roller plunger)	→ D4CC-□002 (Roller plunger)	D4C-P002
WLG2 (Roller lever)	→ D4CC-□024 (Roller lever)	D4C-P020

# **Example of Replacement**

Note: The position of the dog remains unchanged.



# **Specifications**

# **Approved Standards**

Agency	Standard	File No.	
UL	UL508	E76675	
CSA	CSA C22.2 No. 14	LR45746	

# **Ratings**

	Non-inductive load (A)				Inductive load (A)			
Rated voltage	Resistive load		I amp load		Inductive load		Motor load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	1	1	1	0.7	1	1	1	1
30 VDC	1	1	1	1	1	1	1	1

- Note: 1. The above current ratings are for steady-state current.
  - 2. Inductive loads have a power factor of 0.4 min. (AC) and a time  $\,$ constant of 7 ms max. (DC).
  - 3. Lamp loads have an inrush current of 10 times the steady-state current.
  - 4. Motor loads have an inrush current of 6 times the steady-state current.

# D4CC-3, D4CC-4, 1 A at 30 VDC

Inrush	NC	5 A max.
current	NO	2.5 A max.

# **Approved Standard Ratings**

UL/CSA D4CC-1, D4CC-2

D150

Rated	Carry	Curre	nt (A)	Volt-amperes (VA)		
voltage	current	Make	Break	Make	Break	
120 VAC	1.0 A	3.6	0.6	432	72	

# **Characteristics**

Operating speed   O.1 mm/s to 0.5 m/s (in case of plunger) 1 mm/s to 1 m/s (in case of roller lever)				
Durability   Telectrical   200,000 operations min. (1 A at 125 VAC, resistive load   0.1 mm/s to 0.5 m/s (in case of plunger) 1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 m/s (in case of roller lever)   1 mm/s to 1 mm/s (in case of roller lever)   1 mm/s to 1 mm/s (in case of roller lever)   1 mm/s to 1 mm/s to 1 mm/s (in case of roller lever)   1 mm/s (in case of roller lever)	Degree of pro	tection	IP67	
Coperating speed   Condition	Durability *1	Mechanical	10,000,000 operations min.	
Departing speed   1 mm/s to 1 m/s (in case of roller lever)	Durability 1	Electrical	200,000 operations min. (1 A at 125 VAC, resistive load)	
Rated frequency   50/60 Hz	Operating spe	eed		
	Operating	Mechanical	120 operations/min	
Insulation resistance   100 MΩ min. (at 500 VDC)	frequency	Electrical	30 operations/min	
Contact resistance (initial)       100 mΩ max.         Between terminals of same polarity       1,000 VAC, 50/60 Hz for 1 min         Between current-carrying metal parts and ground         Between each terminal and non-current-carrying metal part         Vibration resistance       Malfunction       10 to 55 Hz, 1.5-mm double amplitude *2         Shock resistance       Destruction       1,000 m/s² min.         Ambient operating temperature       -10°C to +70°C (with no icing)         Ambient operating humidity       35% to 95%RH	Rated frequer	псу	50/60 Hz	
Between terminals of same polarity   1,000 VAC, 50/60 Hz for 1 min	Insulation res	istance	100 MΩ min. (at 500 VDC)	
Dielectric strength  Between current-carrying metal parts and ground  Between each terminal and non-current-carrying metal part  Vibration resistance  Malfunction  Book resistance  Malfunction  Malfunction  Destruction  Malfunction  1,000 VAC, 50/60 Hz for 1 min  1,500 VAC, 50/6	Contact resis	tance (initial)	100 mΩ max.	
Dielectric strength carrying metal parts and ground Between each terminal and non-current-carrying metal part 1,500 VAC, 50/60 Hz for 1 min 1,500 VAC, 50/60			1,000 VAC, 50/60 Hz for 1 min	
nal and non-current-carrying metal part  Vibration resistance  Shock Destruction 1,000 m/s² min.  Malfunction 500 m/s² min. *2  Ambient operating temperature Ambient operating humidity 1,500 VAC, 50/60 Hz for 1 min 1		carrying metal	1,500 VAC, 50/60 Hz for 1 min	
resistance  Shock resistance  Destruction 1,000 m/s² min. 1,000 m/s² min. 2  Ambient operating temperature Ambient operating humidity  10 to 55 Hz, 1.5-mm double amplitude 1,000 m/s² min. 2  Ambient operating temperature -10°C to +70°C (with no icing) 35% to 95%RH		nal and non-current-	1,500 VAC, 50/60 Hz for 1 min	
resistance Malfunction 500 m/s² min. *2  Ambient operating temperature -10°C to +70°C (with no icing)  Ambient operating humidity 35% to 95%RH		Malfunction	10 to 55 Hz, 1.5-mm double amplitude *2	
Ambient operating temperature  Ambient operating humidity  -10°C to +70°C (with no icing)  35% to 95%RH	Shock	Destruction	1,000 m/s <sup>2</sup> min.	
Ambient operating humidity 35% to 95%RH	resistance	Malfunction	500 m/s <sup>2</sup> min. *2	
	Ambient operating temperature		-10°C to +70°C (with no icing)	
Weight Approx 120 g (in the case of D4CC-1002	Ambient oper	ating humidity	35% to 95%RH	
7.pp.com 120 g (iii iiio odoo of 2 100 100)	Weight		Approx. 120 g (in the case of D4CC-1002)	

Note: The above figures are initial values.

- \*1. The values are calculated at an operating temperature of +5°C to +35°C, and an operating humidity of 40% to 70%RH. Contact your OMRON sales representative for more detailed information on other operating environments.
- \*2. Excluding plastic rod models.

# **Leakage Current for Switches with Indicators**

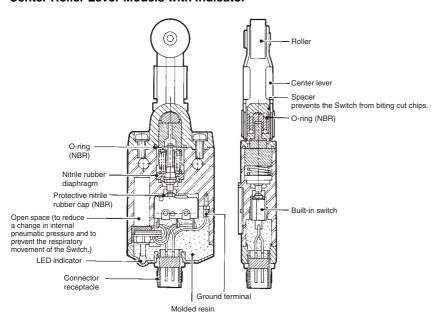
The leakage current and resistance of Switches with indicators are as follows:

Item Model	D4CC-2	D4CC-4
Voltage	125 VAC	30 VDC
Leakage current	1.0 mA	1.0 mA
Resistive value	150 kΩ	30 kΩ

# **Structure and Nomenclature**

# **Structure**

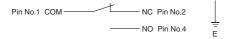
# **Center Roller Lever Models with Indicator**



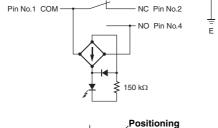
# **Contact Form**

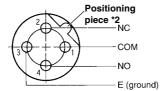
AC Switches (D4CC-10□□, 20□□)

# Without Operation Indicator



# With Operation Indicator (Lit when Not Actuated) \*1

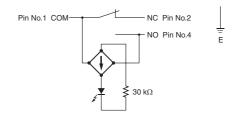


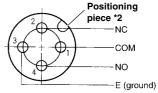


# DC Switches (D4CC-30□□, 40□□) Without Operation Indicator



# With Operation Indicator (Lit when Not Actuated) \*1





- \*1. "Lit when not actuated" means that when the actuator is in the free position, the indicator is lit, and when the actuator is turned or pushed and the contact comes into contact with the NO side, the indicator turns OFF.

  \*2. The position of the positioning piece is not always the same. If using an L-shaped connector causes problems in application, use a straight connector.

# **Connections**

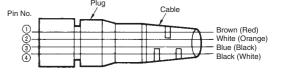
Note: Colors in parentheses are the previous wire colors. Wire colors have been changed accompanying changes in standards.

# For AC

# Brown (Red) White (Orange) Blue (Black) Black (White)



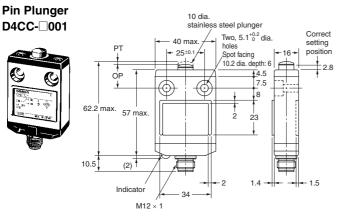
For DC



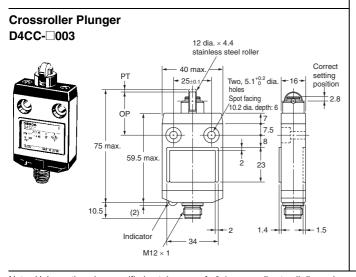
(Unit: mm)

# **Switches**

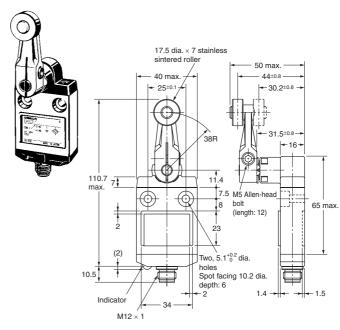
Limit Switches The 🗆 in each model number is replaced with the code expressing the rated load of the model. Refer to Model Number Legend.



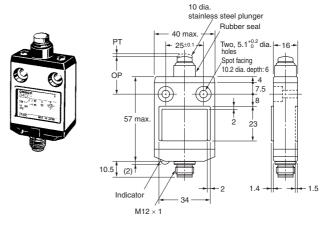
# Roller Plunger D4CC-□002 12 dia. × 4.4 stainless steel roller Two, 5.1 \*\*0.2 dia. holes Spot facing 10.2 dia. depth: 6 10.2 dia. depth: 6 10.2 dia. depth: 6 10.5 max. 75 max. 59.5 max. M12 × 1



# Roller Lever D4CC-□024



# Sealed Pin Plunger D4CC-□031



Note: Unless otherwise specified, a tolerance of  $\pm 0.4 \ \text{mm}$  applies to all dimensions.

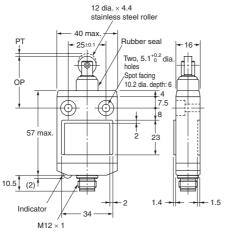
Operating Characteristics		Mod- el	D4CC-□001	D4CC-□002	D4CC-□003	D4CC-□024	D4CC-□031
Operating force	OF	max.	11.77 N	11.77 N	11.77 N	5.69 N	17.65 N
Release force	RF	min.	4.41 N	4.41 N	4.41 N	1.47 N	4.41 N
Pretravel	PT	max.	1.8 mm	1.8 mm	1.8 mm	10°±3°	1.8 mm
Overtravel	OT	min.	3 mm	3 mm	3 mm	50°	3 mm
Movement Differential	MD	max.	0.2 mm	0.2 mm	0.2 mm	3°	0.2 mm
Operating Position Total travel	OP TT	*	15.7±1 mm 	28.5±1 mm 	28.5±1 mm 		24.9±1 mm (5) mm

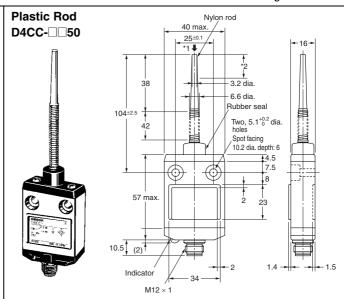
<sup>\*</sup> The TT is a reference value.

The ☐ in each model number is replaced with the code expressing the rated load of the model. Refer to *Model Number Legend*.

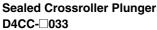
# Sealed Roller Plunger D4CC-□032



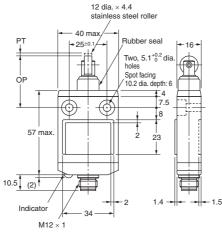


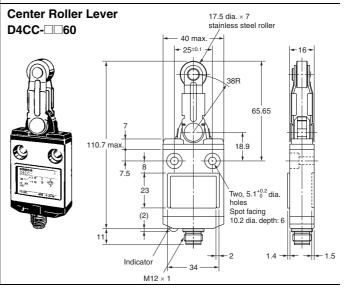


\*1. Operation is possible in any direction except parallel to the axis **4**.
\*2. The ideal range for operation is between the tip of the rod and 1/3 of the length of the actuator.









Note: Unless otherwise specified, a tolerance of  $\pm 0.4 \ \text{mm}$  applies to all dimensions.

<b>Operating Characteristics</b>		Model	D4CC-□032	D4CC-□033	D4CC-□050	D4CC-□060
Operating force	OF	max.	17.65 N	17.65 N	1.47 N	6.67 N
Release force	RF	min.	4.41 N	4.41 N		1.47 N
Pretravel	PT	max.	1.8 mm	1.8 mm	15°	10°±3°
Overtravel	OT	min.	3 mm	3 mm		50°
Movement Differential	MD	max.	0.2 mm	0.2 mm		3°
Operating Position Total travel	OP TT	*	34.3±1 mm (5) mm	34.3±1 mm (5) mm		

<sup>\*</sup> The TT is a reference value.

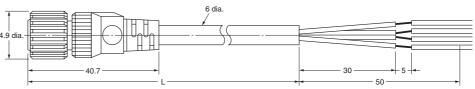
# **Applicable Cables**

Select one of the specified Connector Plugs from the following table.

XS2F-D421-□80-A (For DC) XS2F-A421-□90-A (For AC)



For AC Model	For DC Model	(m)
XS2F-A421-C90-A	XS2F-D421-C80-A	1
XS2F-A421-D90-A	XS2F-D421-D80-A	2
XS2F-A421-G90-A	XS2F-D421-G80-A	5
XS2F-A421-J90-A	XS2F-D421-J80-A	10
6 dia	•	

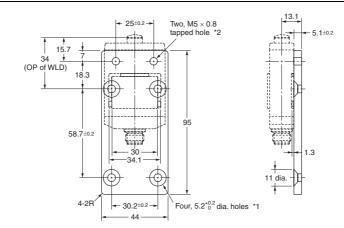


Cable length (L)

# Special Mounting Plates (Limit Switches are not attached to the Plates.)

# D4C-P001 (For D4CC-□001)



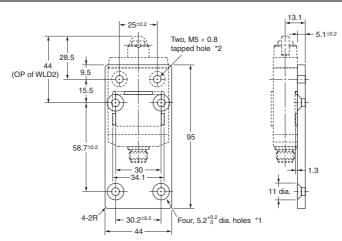


Note: Four hexagonal flat head bolts (M5  $\times$  0.8, length: 10) and two Allen-head bolts (M5  $\times$  0.8, length: 15) are included.

- \*1. All the holes with 5.2 \* 0.2 dia. must be used with M5 × 10 Allen-head bolts.
  \*2. All the M5-tapped holes must be used with M5 hexagonal flat head bolts.

# D4C-P002 (For D4CC-□002)



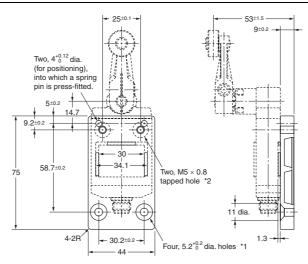


Note: Four hexagonal flat head bolts  $(M5 \times 0.8, length: 10)$  and two Allen-head bolts  $(M5 \times 0.8, length: 10)$ length: 15) are included.

- \*1. All the holes with 5.2<sup>+0.2</sup> dia. must be used with M5 × 10 Allen-head bolts.
  \*2. All the M5-tapped holes must be used with M5
- hexagonal flat head bolts.

# D4C-P020 (For D4CC-□024)





Note: Four hexagonal flat head bolts  $(M5 \times 0.8, length: 10)$ , two Allen-head bolts (M5  $\times$  0.8, length: 15), and two spring pins  $(4 \times 14)$  are included.

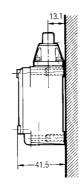
- \*1. All the holes with 5.2<sup>+0.2</sup> dia. must be used with M5 × 10 Allen-head bolts.
  \*2. All the M5-tapped holes must be used with M5 hexagonal flat head bolts.

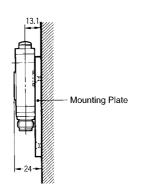
Note: Unless otherwise specified, a tolerance of  $\pm 0.4 \ \text{mm}$  applies to all dimensions.

# Remarks

**OMRON** 

There is no difference in mounting pitch between the Mounting Plate and the WL. The mounting depth of the D4CC with the Mounting Plate attached is, however, shorter than that of the panel-mounted WL.





# **Safety Precautions**

Refer to Safety Precautions for All Limit Switches.

# **Precautions for Correct Use**

# **Operating Environment**

- Seal material may deteriorate if a Switch is used outdoor or where subject to special
  cutting oils, solvents, or chemicals. Always appraise performance under actual
  application conditions and set suitable maintenance and replacement periods.
- Install Switches where they will not be directly subject to cutting chips, dust, or dirt. The Actuator and Switch must also be protected from the accumulation of cutting chips or sludge.



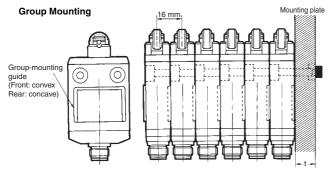
- Constantly subjecting a Switch to vibration or shock can result in wear, which can lead to contact interference with contacts, operation failure, reduced durability, and other problems.
   Excessive vibration or shock can lead to false contact operation or damage. Install Switches in locations not subject to shock and vibration and in orientations that will not produce resonance.
- The Switches have physical contacts. Using them in environments containing silicon gas will result in the formation of silicon oxide (SiO<sub>2</sub>) due to arc energy. If silicon oxide accumulates on the contacts, contact interference can occur. If silicon oil, silicon filling agents, silicon cables, or other silicon products are present near the Switch, suppress arcing with contact protective circuits (surge killers) or remove the source of silicon gas.

# Mounting

 Make sure that the plate to which the D4CC is mounted is flat. If the plate is warped or has protruding parts, the D4CC may not malfunction.



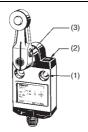
 A maximum of 6 Switches may be group-mounted. In this case, pay attention to the mounting direction so that the convex part of the group-mounting guide on one Switch fits into the concave part of the guide on the other Switch as shown in the figure below.
 For group mounting, the mounting panel must have a thickness (t) of 6 mm min.



• Be sure to tighten each screw to the proper tightening torque as shown in the table.

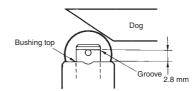
No.	Туре	Appropriate tightening torque *
(1)	M5 Allen-head bolt	4.90 to 5.88 N⋅m
(2)	M3.5 head mounting screw	0.78 to 0.88 N⋅m
(3)	M5 Allen-head bolt	4.90 to 5.88 N⋅m

\* By removing the two screws from the head, the head direction can be rotated 180°. After changing the head direction, re-tighten to the torque specified above. Be careful not to allow any foreign substance to enter the Switch.

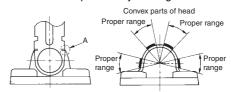


### Operation

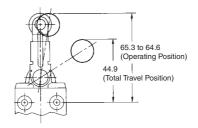
- Operation method, shapes of cam and dog, operating frequency, and overtravel have a significant effect on the service life and precision of a Limit Switch. For this reason, the dog angle must be 30° max., the surface roughness of the dog must be 6.3S min. and hardness must be Hv400 to 500.
- To allow the plunger-type actuator to travel properly, adjust the dog and cam to the proper setting positions. The proper position is where the plunger groove fits the bushing top.

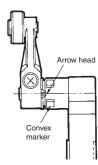


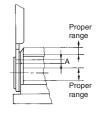
- To allow the roller lever-type actuator to travel properly, adjust the dog and cam so that the arrow head is positioned between the two convex markers as shown below.
- Properly adjust the stroke of the center roller lever along with the dog or cam so that the concave part (A) of the head is located between the convex parts of the head as shown below when the center roller lever is pressed by the dog or cam.



• Refer to the following to adjust the stroke of the lever based on the mounting hole level.

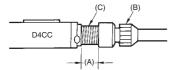




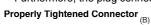


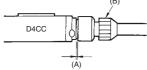
# **Plug Tightening**

 Connect the plug connector (B) to the connector threads (C) of the D4CC. Then firmly turn the plug connector by hand so that the connector threaded portion (C) will be completely covered by the plug connector (B) so that space (A) will be almost 0.



 Do not use any tools, such as pliers, to tighten the plug connector, otherwise the plug connector may become damaged. Make sure, however, that the plug connector is tightened securely, otherwise the rated degree of protection of the D4CC may not be maintained.
 Furthermore, the plug connector may be loosened by vibration.





# **Others**

- If failures, such as reset failures, in the plunger model are possible, use a model that has a rubber cap.
- Do not expose the Switch to water exceeding 70°C or use it in steam.

## **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.

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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 PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

# PROGRAMMABLE PRODUCTS

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

# **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 products 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 products.

# **DIMENSIONS AND WEIGHTS**

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

## 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.

# **ERRORS AND OMISSIONS**

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

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