

Compact, General-purpose Horizontal Switches.

Models for Microloads Added to Series

- Approved by EN, UL, CSA, and CCC (Chinese standard). (Ask your OMRON representative for information on approved models.)
- Incorporates a switch with a durable coil spring in a tough, highprecision case.
- Compact and uses a single basic switch for applications where strength is required.
- Models for microloads and models with operation indicators added to series.
- Terminal protective cover can be switched to wire cable from either the left or right.
- Sealing characteristics that meet IEC IP67 degree of protection.

Be sure to read *Safety Precautions* on page 7 and *Safety Precautions for All Limit Switches*.

Ordering Information

Switches

Туре	Standard	Micro load
Actuator	Model	Model
Plunger <u>A</u>	SHL-D55	SHL-D55-01
Panel mount plunger	SHL-Q55	SHL-Q55-01
Panel mount roller	SHL-Q2255	SHL-Q2255-01
Panel mount crossroller plunger	SHL-Q2155	SHL-Q2155-01
Short hinge lever	SHL-W55	SHL-W55-01
Hinge lever	SHL-W155	SHL-W155-01

Туре	Standard	Micro load
Actuator	Model	Model
Short hinge roller	SHL-W255	SHL-W255-01
Hinge roller lever	SHL-W2155	SHL-W2155-01
One-way action short hinge roller	SHL-W355	SHL-W355-01
One-way action	SHL-W3155	SHL-W3155-01

Note: Models are also available with molded terminals and with molded terminals and operation indicators. Refer to page 6.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Molded Terminal Models with Wire Cable

Without Operation Indicator

Location of	Туре	Standard	Micro load
lead outle	Actuator	Model	Model
	Plunger	SHL-D55-MR VCTF 3M	SHL-D55-01MR VCTF 3M
	Panel mount plunger	SHL-Q55-MR VCTF 3M	SHL-Q55-01MR VCTF 3M
	Panel mount roller plunger	SHL-Q2255-MR VCTF 3M	SHL-Q2255-01MR VCTF 3M
	Panel mount crossroller plunger	SHL-Q2155-MR VCTF 3M	SHL-Q2155-01MR VCTF 3M
Right-hand	Short hinge lever	SHL-W55-MR VCTF 3M	-
	Hinge lever	SHL-W155-MR VCTF 3M	_
	Short hinge roller lever	SHL-W255-MR VCTF 3M	SHL-W255-01MR VCTF 3M
	Hinge roller lever	SHL-W2155-MR VCTF 3M	SHL-W2155-01MR VCTF 3M
	One-way action short hinge roller lever	SHL-W355-MR VCTF 3M	-
	Plunger	SHL-D55-ML VCTF 3M	-
	Panel mount roller plunger	SHL-Q2255-ML VCTF 3M	SHL-Q2255-01ML VCTF 3M
	Panel mount crossroller plunger	SHL-Q2155-ML VCTF 3M	-
Left-hand	Short hinge lever	SHL-W55-ML VCTF 3M	-
	Hinge lever	SHL-W155-ML VCTF 3M	_
	Short hinge roller lever	SHL-W255-ML VCTF 3M	
	Hinge roller lever	SHL-W2155-ML VCTF 3M	SHL-W2155-01ML VCTF 3M
	Plunger	SHL-D55-MD VCTF 3M	-
	Panel mount plunger	SHL-Q55-MD VCTF 3M	-
	Panel mount roller plunger	SHL-Q2255-MD VCTF 3M	SHL-Q2255-01MD VCTF 3M
	Panel mount crossroller plunger	SHL-Q2155-MD VCTF 3M	-
Underside	Short hinge lever	SHL-W55-MD VCTF 3M	-
	Hinge lever	SHL-W155-MD VCTF 3M	_
	Short hinge roller lever	SHL-W255-MD VCTF 3M	_
	Hinge roller lever	SHL-W2155-MD VCTF 3M	-
	One-way action short hinge roller lever	SHL-W355-MD VCTF 3M	_

Operation Indicator

		Туре	Standard	Micro load
Location of lead outle	Actuator	Voltage specification*	Model	Model
	Plunger	L3	SHL-D55-L3MR VCTF 3M	SHL-D55-01L3MR VCTF 3M
	Fluinger	L4	SHL-D55-L4MR VCTF 3M	-
	Panel mount plunger	L3	SHL-Q55-L3MR VCTF 3M	-
	Panel mount plunger	L4	SHL-Q55-L4MR VCTF 3M	-
		L2	SHL-Q2255-L2MR VCTF 3M	-
	Panel mount roller plunger	L3	SHL-Q2255-L3MR VCTF 3M	SHL-Q2255-01L3MR VCTF 3M
		L4	SHL-Q2255-L4MR VCTF 3M	SHL-Q2255-01L4MR VCTF 3M
Right-hand	Panel mount crossroller plunger	L3	SHL-Q2155-L3MR VCTF 3M	SHL-Q2155-01L3MR VCTF 3M
	Panel mount crossioner plunger	L4	SHL-Q2155-L4MR VCTF 3M	SHL-Q2155-01L4MR VCTF 3M
	Hinge lever	L3	SHL-W155-L3MR VCTF 3M	-
	Short hinge roller lever	L3	SHL-W255-L3MR VCTF 3M	-
		L4	SHL-W255-L4MR VCTF 3M	SHL-W255-01L4MR VCTF 3M
	Hinge roller lever	L3	SHL-W2155-L3MR VCTF 3M	-
		L4	SHL-W2155-L4MR VCTF 3M	SHL-W2155-01L4MR VCTF 3M
	One-way action short hinge roller lever	L4	SHL-W355-L4MR VCTF 3M	_
	Panel mount roller plunger	L3	SHL-Q2255-L3ML VCTF 3M	SHL-Q2255-01L3ML VCTF 3M
	raner mount roner plunger	L4	SHL-Q2255-L4ML VCTF 3M	-
	Short hinge lever	L3	SHL-W55-L3ML VCTF 3M	-
Left-hand		L3	SHL-W155-L3ML VCTF 3M	-
	Hinge lever	L4	SHL-W155-L4ML VCTF 3M	-
	Short hinge roller lever	L3	SHL-W255-L3ML VCTF 3M	-
	Short hinge toner lever	L4	-	SHL-W255-01L4ML VCTF 3M
	Panel mount roller plunger	L4	SHL-Q2255-L4MD VCTF 3M	SHL-Q2255-01L4MD VCTF 3M
Underside	Short hings roller lover	L3	SHL-W255-L3MD VCTF 3M	-
Underside	Short hinge roller lever	L4	SHL-W255-L4MD VCTF 3M	-
	Hinge roller lever	L4	SHL-W2155-L4MD VCTF 3M	-

* Refer to Voltage rating for voltage specifications on page 6.

Specifications

Approved Standards

Agency	Standard	File No.	Approved models
UL	UL508	E76675	General-purpose models listed on
CSA	CSA C22.2 No. 14	LR45746	page 1.
TÜV Rheinland	EN60947-5-1	J50062486	All SHL models listed in this datasheet.
CCC (CQC)	GB/T14048.5	Contact your OMRON representative for details.	Ask your OMRON representative for information on approved models.

Ratings

	Non-induct		ve load (A)		Inductive load (A))
Rated voltage		stive ad	Lamp load		Lamp load Inductive load		Motor load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	1	0	1.	.5	:	3	2	.5
250 VAC	1	0	1.	.5	2	2	1	.5
480 VAC		2	-	-	-	-	-	-
8 VDC	1	0	2	2	Ę	5	2	2
14 VDC	1	0	2	2	Ę	5	2	2
30 VDC		5	1	.5	1	.5	1	.5
125 VDC	0).4	0	.4	0.	05	0.	05
250 VDC	C).2	0	.2	0.	03	0.	03

Inrush NC 15 A max. 15 A max. current NO

Note: 1. The above figures are for steady-state currents.

Inductive loads have a power factor of 0.4 min. (AC) and a time constant of 7 ms max. (DC).
Lamp load has an inrush current of 10 times the steady-state current.
Motor load has an inrush current of 6 times the steady-state current.

Micro load models

Deted	Non-inductive load (A)				
Rated voltage	Resistive load				
vollage	NC NO				
125 VAC	0.1				
8 VDC	0.1				
14 VDC	0.1				
30 VDC	0.	.1			

Approved Standard Ratings TÜV (EN60947-5-1), CCC (GB/T14048.5)

Model	Categor	y and rating	I the		
SHL-□55		2 A/125 V 2 A/48 V	5 A 5 A		
SHL-□55-01		0.1 A/125 V 0.1 A/48 V	0.5 A 0.5 A		
SHL-D55-L	AC-15	2 A/125 V	5 A		
SHL-255-01L	AC-14	0.1 A/125 V	0.5 A		
SHL-255-01L2	DC-12	0.1 A/12 V	0.5 A		
SHL-D55-L3	DC-12	2 A/24 V	5 A		
SHL-255-01L3	DC-12	0.1 A/24 V	0.5 A		
SHL-D55-L4	DC-12	2 A/24 V	5 A		
SHL-255-01L4	DC-12	0.1 A/24 V	0.5 A		
SHL-D55-L5	DC-12	2 A/48 V	5 A		
SHL-255-01L5	DC-12	0.1 A/48 V	0.5 A		

Note: "AC-15 2 A/125 V" indicates the following. Application category: AC-16 Rated operating current (le): 2 A Rated operating voltage (Ue): 125 V

UL/CSA

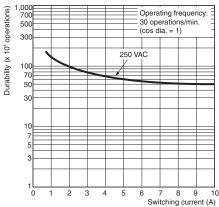
A3	00					
	Rated	Carry	Curre	nt (A)	Volt-am	peres (V)
	voltage	current	Make	Break	Make	Break
	120 VAC	10 A	60	6	7.200	720
	240 VAC	10 A	30	3	7,200	720

Characteristics (For SHL-W155)

Degree of protections *1	IP67 (EN60947-5-1)	
Durability *2 Mechanical	10,000,000 operations min.	
Electrical	500,000 operations min.	
Operating speed	0.1 mm/s to 0.5 m/s (hinge lever models)	
Operating Mechanical	120 operations/min	
frequency Electrical	30 operations/min	
Rated frequency	50/60 Hz	
Insulation resistance	100 MΩ min. (at 500 VDC)	
Contact resistance	15 m Ω max. (initial value for the built-in switch when tested alone)	
Between terminals of the same polarity	1,000 VAC, 50/60 Hz for 1 min	
Dielectric strength Between each terminal and non-current-carrying metal part	2,000 VAC, 50/60 Hz for 1 min/Uimp at 2.5 kV (EN60947-5-1)	
Rated insulation voltage (Ui)	150 V (EN60947-5-1)	
Pollution degree (operating environment)	3 (EN60947-5-1)	
Short-circuit protective device (SCPD)	10 A fuse type gl or gG (IEC60269)	
Conditional short-circuit current	100 A (EN60947-5-1)	
Conventional enclosed thermal current (Ithe)	5 A (EN60947-5-1)	
Protection against electric shock	Class II (grounding not required with double insulation)	
OFF reverse voltage	1,000 VAC max., 300 VDC max. (EN60947-5-1)	
Vibration resistance Malfunction	10 to 55 Hz, 1.5-mm double amplitude	
Shock Destruction	1,000 m/s ² max.	
resistance Malfunction	300 m/s ² max.	
Ambient operating temperature	-10°C to +80°C (with no icing)	
Ambient operating humidity	35% to 95%RH	
Weight *3	Approx. 62 to 72 g	

Engineering Data Electrical Durability

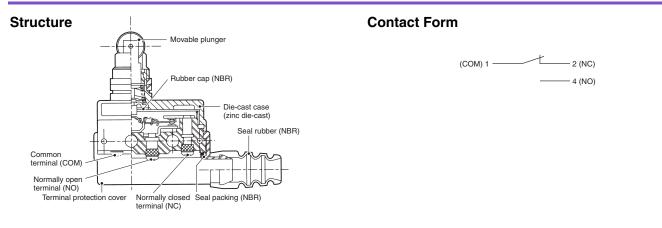
(Ambient temperature: +5°C to +35°C, Ambient humidity: 40% to 50%RH)



Note: 1. The figures at the left are initial values.

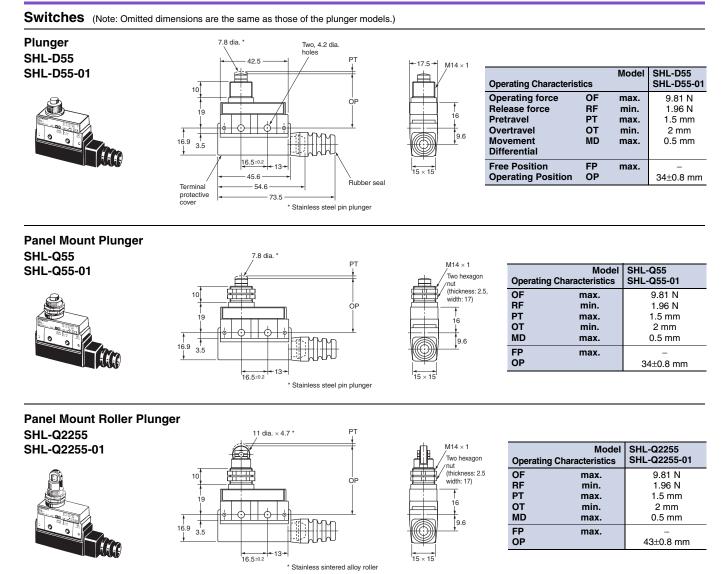
- 2. The ratings at the left may vary depending on the model. Contact your OMRON representative for further details.
- *1. The head section of the plunger type SHL-D(Q) \Box is excluded.
- *2. Durability values are calculated at an operating temperature of +5°C to +35°C, and an operating humidity of 40% to 70%RH.
- *3. The values are for the plunger-type models.

Structure and Nomenclature



Dimensions and Operating Characteristics

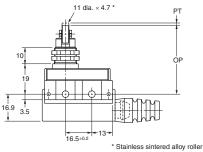
(Unit: mm)

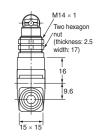


Note: Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

Panel Mount Crossroller Plunger SHL-Q2155 SHL-Q2155-01







OF max. 9.81 N RF min. 1.96 N PT max. 1.5 mm OT min. 2 mm MD max. 0.5 mm FP max. - OP 43±0.8 mm	Operating Chara		SHL-Q2155 SHL-Q2155-01
PT max. 1.5 mm OT min. 2 mm MD max. 0.5 mm FP max. –	OF	max.	9.81 N
OT MD min. max. 2 mm 0.5 mm FP max. –	RF	min.	1.96 N
MD max. 0.5 mm FP max. –	PT	max.	1.5 mm
FP max. –	от	min.	2 mm
	MD	max.	0.5 mm
OP 43±0.8 mm	FP	max.	-
	OP		43±0.8 mm

SHL-W55 SHL-W55-01

> 3.14 N 0.78 N

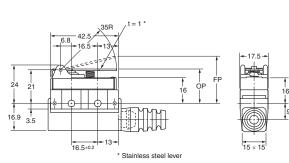
8 mm

3 mm 2.5 mm

29.5 mm 21.5±1 mm

Short Hinge Lever SHL-W55 SHL-W55-01

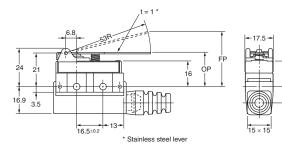




	Operating Ch	Model aracteristics
	OF	max.
	RF	min.
	PT	max.
	от	min.
.6	MD	max.
	FP	max.
	OP	-

Hinge Lever SHL-W155 SHL-W155-01

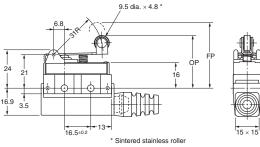




Model Operating Characteristics		HL-W155 SHL-W155-01
OF	max.	2.35 N
RF	min.	0.44 N
PT	max.	13 mm
от	min.	5 mm
MD	max.	4 mm
FP	max.	34.5 mm
OP		21.5±1 mm

Short Hinge Roller Lever SHL-W255 SHL-W255-01

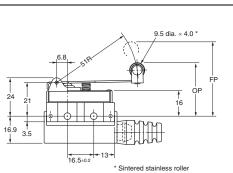


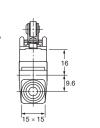


Operating	Model Characteristics	SHL-W255 SHL-W255-01
OF	max.	3.92 N
RF	min.	0.78 N
PT	max.	8 mm
от	min.	3 mm
MD	max.	2.5 mm
FP	max.	41 mm
OP		33±1 mm

Hinge Roller Lever SHL-W2155 SHL-W2155-01







Operating Ch		SHL-W2155 SHL-W2155-01
OF BF	max. min.	2.55 N 0 49 N
PT	max.	13 mm
OT MD	min. max.	5.5 mm 4 mm
FP	max.	46.5 mm
OP		33.5±1 mm

Note: Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

One-way Action Short Hinge Roller Lever 9.5 dia. × 4.0 ' SHL-W355 SHL-W355-01 SHL-W355 Model SHL-W355-01 **Operating Characteristics** ą Operating direction OF 3.92 N max. 0.78 N RF min. РΤ max. 8 mm от min. 3 mm MD max. 2.5 mm 96 FP max. 52.5 mm 16.9 3.5 OP 44.5±1 mm 16.5±0.2 * Stainless sintered roller **One-way Action Hinge Roller Lever** 9.5 dia. × 4.0 * SHL-W3155 SHL-W3155-01 SHL-W3155 Model SHL-W3155-01 **Operating Characteristics** Operating direction OF max. 2.55 N RF min. 0.49 N PT OT MD max. 13 mm min. 5.5 mm 16 max. 4 mm FP max. 57.5 mm 9.6 OP 44.5±1 mm

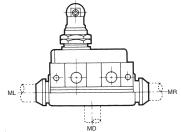
|∢ ⊧|∢ 13[.] 16.5±0.2

* Stainless sintered roller

Note: Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

Molded Terminal Models

Use of the molded terminal model is recommended in locations subject to excessive dust, oil drips, or moisture. The molded terminal model will have the same dimensions and operating characteristics as the basic model.



Suffix by Location of Lead Outlet

Location of	Model (suffix)	
lead outlet (Refer to above figure)	Terminal COM, NC, NO	
Right-hand	-MR	
Left-hand	-ML	
Underside	-MD	

Note: The above suffixes can be added to the model numbers given on page 1 to specify molded terminals.

Lead Supplies

Specifications	VCTF
Leads	(Vinyl cabtire cable)
Nominal cross-sectional area (mm ²)	0.75
No. of conductors/cond. dia.	30/0.18
External diameter (mm)	3-conductor 7 dia.
Terminal connections	Black: COM White: NO Red: NC
Length (m)	3 (standard)

Operation Indicator-equipped Models

The molded terminal model may be equipped with an operation indicator (neon lamp or LED) upon request to facilitate maintenance and inspection.

The operation indicator is designed to illuminate when the Switch is not operating. (Because of the molded terminal model, any change to the Switch wiring cannot be made.)

For DC

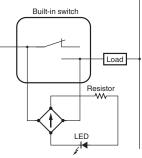
• LED indicator is provided.

- As a rectifier stack is incorporated, into the unit and no directionality exists for connection of + and -, this type can also be operated on AC.
- The voltage specifications are given below.
- Voltage ratings of LED indicators are as shown in the table below.

Model	Voltage rating (V)	Leakage current (mA)	Internal resistance (kΩ)
L2	12	Approx. 2.4	4.3
L3	24	Approx. 2	10
L4	24	Approx. 1.2	18

Contact Circuit - Pov





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 (SiO2) 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.

Connections

Be sure to connect a fuse with a breaking current 1.5 to 2 times the rated current to the Limit Switch in series in order to protect the Limit Switch from damage due to short-circuiting.

When using the Limit Switch under the EN ratings, use a gl or gG 10-A fuse that conforms to IEC60269.

Mounting

- Secure the Switch with two M4 screws and washers. The tightening torque applied to each terminal must be 1.18 to 1.37 N·m. Tighten the screws to the specified torque. An excessive tightening torque may damage the Switch and cause a malfunction.
- When mounting the panel mount-type Switch with screws on a side surface, remove the hexagonal nuts from the actuator.

Mounting Holes

• When mounting the panel mount type (SHL-Q55, SHL-Q2255, or SHL-Q2155) on a panel, tighten the hexagonal nuts of the actuator to a torque less than 4.90 to 7.84 N·m.

Mounting Holes



• When mounting the Terminal Protective Cover to the case, align the cover on the case and then press the cover down to mount it firmly. If the cover is pressed down in an inclined position, rubber packing will deform and thus affect the sealing capability.

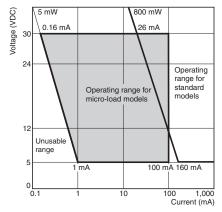


Rubber packing

Micro Load Models

When using a Limit Switch for opening or closing micro-load circuit (zones 1 through 3), contact failure may occur if a Limit Switch with ordinary contact specifications is used. Therefore, when using Limit Switches in the micro-load range, use ones with contact specifications that are suited to each zone. Use the SHL- -01 micro load models within the zones (1 through 3) shown in the following diagram.

Micro Load Applicable Ranges



The above diagram is for standard conditions (+5°C to +35°C, 40% to 70%RH). Since the values vary depending on the operating environment conditions, contact your OMRON representative for further details.

Tightening Torque

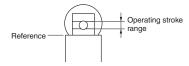
• A loose screw may result in a malfunction. Be sure to tighten each screw to the proper tightening torque as shown below.

No.	Туре	Appropriate tightening torque
1	Terminal screw (M3 screw)	0.24 to 0.44 N⋅m
2	Mounting screw (M4 screw)	1.18 to 1.37 N·m

• When wiring, use M3 round solderless terminals and apply insulation shielding to the connections. Tighten the terminals screws to 0.24 to 0.44 N·m.

Operating Stroke

Ensure that the operating stroke for roller plunger models is within the set position display.



Others

The standard seal rubber for the lead wire outlet is one that allows 6to 8-dia. cables. The appropriate nominal cross-section of the lead wire is 0.75 mm². (When the sealing capability is required over a long period of time, use mold specifications.)

Terms and Conditions Agreement

Read and understand this catalog.

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NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

Performance Data.

Data presented in Omron Company websites, catalogs and other materials 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 user must correlate it to actual application requirements. Actual performance is subject to the Omron'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 practice to change part 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 part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual specifications of purchased Product.

Errors and Omissions. Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.

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

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