# Enclosed Switch

# **Economical, High Utility Enclosed Switch**

- Enclosed Switches with Built-in Basic Switches for High Repeatability and Durability of 10 Million Operations Minimum.
- Panel mount versions have the same operating position as Z Basic Switch.
- Suitable for applications demanding higher mechanical strength, dustproof and drip-proof properties than those on basic switches.
- Resin molded terminal versions are available.
- Approved by UL, CSA, and CCC (Chinese standard). (Ask your OMRON representative for information on approved models.)

Be sure to read Safety Precautions on page 5 and Safety Precautions for All Limit Switches.

### **Model Number Structure**

#### Model Number Legend



#### (1) Actuator

- 5000: Panel mount plunger 5020: Panel mount roller plunger 5040: Panel mount crossroller plunger 1000: Hinge lever
- 1020: Short hinge lever
- 2000: Hinge roller lever
- 2020: Short hinge roller lever
- 3030: One-way action short hinge roller lever

## **Ordering Information**

Actuator		Model
Panel mount plunger	鱼	D4MC-5000
Panel mount roller plunger	en	D4MC-5020
Panel mount crossroller plunger		D4MC-5040
Hinge lever	<u>e</u>	D4MC-1000
Short hinge lever	<u> </u>	D4MC-1020
Hinge roller lever	R	D4MC-2000
Short hinge roller lever	A A A A A A A A A A A A A A A A A A A	D4MC-2020
One-way action short hinge roller lever		D4MC-3030

Note: 1. Use Switches with molded terminals in locations subject to dirt, dust, oil drops, or high humidity. Models are available with lead wires on the right, on the left, and from the bottom.

2. Contact your OMRON representative for information on models certified for international standards.

## Specifications

Approved Standard
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Agency	Standard	File No.
UL *	UL508, CSA C22.2 No.14	E76675
CCC(CQC)	GB14048.5	2003010303077627

Note: Ask your OMRON representative for information on approved models. \* UL certified for CSA C22.2 No. 14.





#### Ratings

	Non-inductive load (A)				Inductive load (A)			
Rated voltage	Resistive load		Lamp load		Inductive load		Motor load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC 250 VAC 480 VAC		10 10 3	3 2.5 1.5	1.5 1.25 0.75		10 10 2.5	5 3 1.5	2.5 1.5 0.75
8 VDC 14 VDC 30 VDC 125 VDC 250 VDC		10 10 6 0.5 .25	3 3 0.4 0.2	1.5 1.5 1.5 0.4 0.2		6 6 5 .05 .03	5 5 0.05 0.03	2.5 2.5 2.5 0.05 0.03

NC 30 A max. Inrush

current NO 15 A max.

- Note: 1. The above figures are for steady-state currents.
  2. Inductive loads have a power factor of 0.4 min. (AC) and a time constant of 7 ms max. (DC).
  3. Lamp load has an inrush current of 10 times the steady-state current.
  4. Motor load has an inrush current of 6 times the steady-state current.
  5. The above ratings were tested under the following conditions. (1) Ambient temperature: +20±2°C
  (2) Ambient humidity: 65±5%RH
  (3) Operating frequency: 20 operations/min

#### Characteristics

Degree of	f protection	IP67		
-	Mechanical	10,000,000 operations min.		
Durability	Electrical	500,000 operations min.		
Operating speed		0.05 mm/s to 0.5 m/s *1		
Operating Mechanical		120 operations/min		
frequency	Electrical	20 operations/min		
Rated fre	quency	50/60 Hz		
Insulation	n resistance	100 MΩ min. (at 500 VDC)		
Contact r	esistance	15 m $\Omega$ max. (initial value for the built-in switch when tested alone)		
Dielectric	Between terminals of the same polarity	1,000 VAC, 50/60 Hz for 1 min		
strength	Between each terminal and non-current-carrying part	2,000 VAC, 50/60 Hz for 1 min		
Rated insulation voltage (Ui)		1,000 VAC		
Pollution degree (operating environment)		3 (IEC947-5-1)		
Protection	against electric shock	Class II		
PTI (track	ting characteristics)	175		
Switch ca	ategory	D (IEC335)		
Rated op	erating current (le)	10 A		
Rated op	erating voltage (Ue)	250 VAC		
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude *2		
ShockDestructionresistanceMalfunction		1,000 m/s² min.		
		100 m/s <sup>2</sup> min. *1 *2		
Ambient operating temperature		-10°C to +80°C (with no icing)		
Ambient	operating humidity	35% to 95%RH		
Weight		Approx. 71 g (in case of panel mount plunger)		
1 Only for	r models with nlungers	Contact your OMBON representative for		

\*1. Only for models with plungers. (Contact your OMRON representative for information on other models.)

\*2. Less than 1 ms under a free state at the operating limits.

#### **Approved Standard Ratings** UL/CSA

#### A300

Rated voltage	Carry	Current (A)		Volt-amperes (VA)	
naleu voltage	current	Make	Break	Make	Break
120 VAC	10A	60	6	7.200	720
240 VAC	IUA	30	3	7,200	720

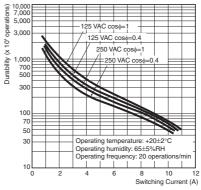
#### EN60947-5-1

#### CCC (GB14048.5)

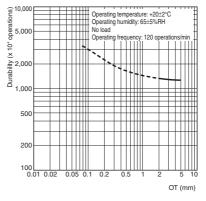
Applicable category and ratings	
AC-12 10 A/250 VAC	

## **Engineering Data**

#### **Electrical Durability**



Mechanical Durability (D4MC-5000)

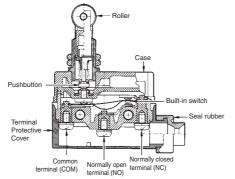


## Structure and Nomenclature

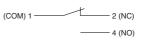
#### Structure

Changing the Terminal Protective Cover around allows the cable to be pulled out from either the right or the left.

M4 binding head screws (with toothed washers) are used as the terminal screws.



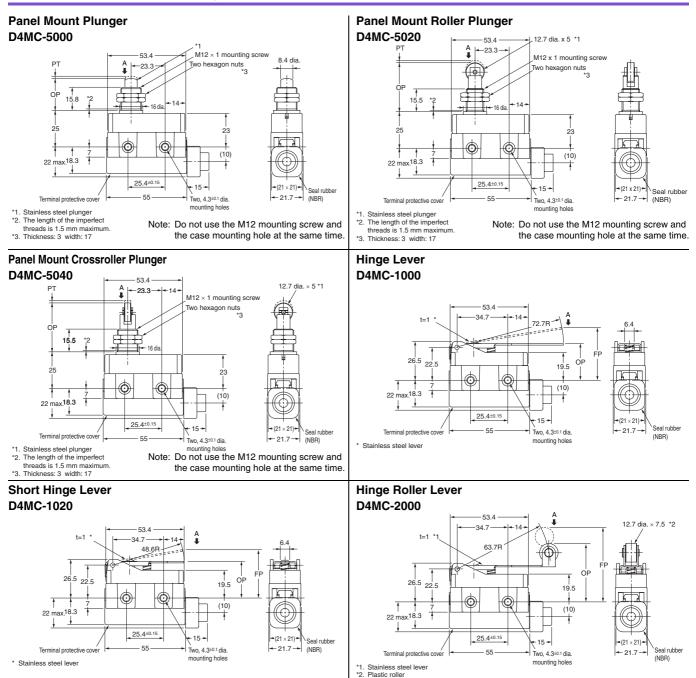
## **Contact Form**



# D4MC

(Unit: mm)

## **Dimensions and Operating Characteristics**



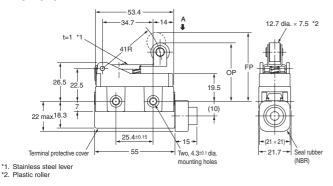
Note: 1. Unless otherwise specified, a tolerance of±0.4 mm applies to all dimensions. 2. Operating characteristics are for when the Switch is operated from direction A.

3. Make sure that the permissible OT position is not exceeded.

<b>Operating Characterist</b>	ics	Model	D4MC-5000	D4MC-5020	D4MC-5040	D4MC-1000	D4MC-1020	D4MC-2000
Operating force	OF	max.	5.88 N	5.88 N	5.88 N	1.67 N	2.55 N	1.96 N
Release force	RF	min.	0.98 N	0.98 N	0.98 N	0.25 N	0.34 N	0.39 N
Pretravel	PT	max.	1.6 mm	1.6 mm	1.6 mm			
Overtravel	ОТ	min.	5 mm	5 mm	5 mm	4 mm	2.5 mm	5 mm
Movement Differential	MD	max.	0.2 mm	0.2 mm	0.2 mm	3 mm	1.7 mm	3 mm
Free Position	FP	max.				36 mm	33 mm	51 mm
Operating Position	OP		21.8±1.2 mm	33.4±1.2 mm	33.4±1.2 mm	25±1 mm	25±1mm	40±1 mm

# D4MC

#### Short Hinge Roller Lever D4MC-2020



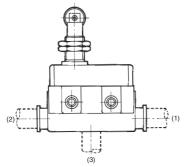
Note: 1. Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions. 2. Operating characteristics are for when the Switch is operated from direction A.

3. Make sure that the permissible OT position is not exceeded.

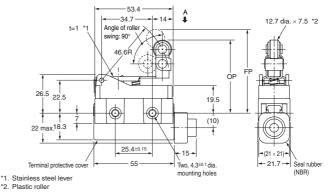
Operating characteristics	Model	D4MC-2020	D4MC-3030
Operating force	OF max.	2.94 N	2.94 N
Release force	RF mim.	0.39 N	0.39 N
Pretravel	PT max.		
Overtravel	OT min.	2 mm	2 mm
Movement Differential	MD max.	1.5 mm	1.5 mm
Free Position	FP max.	47 mm	57.2 mm
Operating position	OP	40±1 mm	50±1 mm

#### Molded Terminal Models (Not Approved by UL, CSA, or EN)

Use Switches with molded terminals in locations subject to dirt, dust, oil drops, or high humidity. Molded terminals are available with all D4MC models. Dimensions and operating characteristics are the same as the basic models.



# One-way Action Short Hinge Roller Lever D4MC-3030



#### Suffix by Location of Lead Outlet

Location of lead outlet	Model
(Refer to left figure)	COM, NC, and NO
(1) Right-hand	D4MC-001
(2) Left-hand	D4MC-DD2
(3) Underside	D4MC-□□3

Note: To form the model numbers for molded terminals models, add the numbers 1 to 3 in the table above to the end of the model number in Ordering Information on page 1.

#### Leads Supplied

Specifications	Nominal cross-sec- tional area mm <sup>2</sup>	External diameter mm	Terminal connections	Cable length m
V.C.T. (Vinyl cabtire cable)	1.25	3 conductor 10.5 dia.	Black: COM White: NO Red: NC	1, 3

Note: Add the VCT length to the end of the model number when ordering. Consult with your OMRON representative for other types of lead wires and for lead wires longer than 3 m.

#### How to Order

Example:

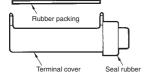
Standard type: D4MC-5020

Location of lead outlet: Underside

Length of lead: 1 m (V.C.T. lead)

When placing your order for the above Switch specify the model number as D4MC-5023 VCT 1M

Terminal Protective Cover, Seal Rubber, and Rubber Packing (The Switch is equipped with these 3 items as a standard.)



• ZC Terminal Cover (Product code: ZC55-0002H)

• ZC Seal Rubber (Product code: SC-1404C)

• ZC Rubber Packing (Product code: ZC55-0003F)

## Safety Precautions

#### Refer to Safety Precautions for All Limit Switches.

#### Precautions for 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.



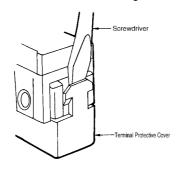
- · Constantly subjecting a Switch to vibration or shock can result in wear, which can lead to contact interference with contacts, operation failure, reduced durability, and other problems. Excessive vibration or shock can lead to false contact operation or damage. Install Switches in locations not subject 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.

#### Operating

Excessive dog angle, operating speed, or overtravel (OT) may damage the actuator. Check that OT has a sufficient margin. The actual OT should be rated OT  $\times$  0.7 to 1.

#### Handling

- Do not expose the Switch to water exceeding +60°C or use it in steam
- Do not use the Switch in oil or water.
- An 8.5-dia. to 10.5-dia. cable can be applied as seal rubber for the lead wire outlet. (Use two- or three-core cable of VCT1.25 mm<sup>2</sup>.) • When detaching the Terminal Protective Cover, insert a
- screwdriver and apply a force in the opening direction. Do not use excess force to remove the cover. Doing so may cause deformation in the fitting section and reduce the holding force.



• 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

#### Mounting

. When mounting the Switch with screws on a side surface, fasten the Switch with M4 screws and use washers, spring washers, etc., to ensure secure mounting.

#### Mounting Holes



- When mounting the Panel Mount-type Switch (D4MC-5000, D4MC-5020, or D4MC-5040) with screws on a side surface, remove the hexagonal nuts from the actuator.
- When mounting the panel mount type on a panel, be careful not to tighten to an excessive torque. Tightening the screws to a torque exceeding 4.91 N·m will cause the plunger to fail.

#### **Mounting Hole Dimensions**

D4MC-5000

D4MC-5020, D4MC-5040





#### **Tightening Torque**

A loose screw may cause malfunctions. Be sure to tighten each screw to the proper tightening torgue as shown in the table.

No.	Туре	Appropriate tightening torque
(1)	Terminal screw	0.78 to 1.18 N·m
(2)	Panel mounting screw	2.94 to 4.92 N⋅m
(3)	Side mounting screw	1.18 to 1.47 N⋅m

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- Offer: Acceptance. These terms and conditions (these "Terms") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "<u>Products</u>") by Omron Electronics LLC and its subsidiary companies ("<u>Omron</u>"). Omron objects to any terms or conditions proposed in Buyer's purchase\_order or other documents which are inconsistent with, or in addition to, these Terms
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- <u>Shipping: Delivery</u> Unless otherwise expressly agreed in writing by Omron:
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  - b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer; c. All sales and shipments of Products shall be FOB shipping point (unless of
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   <u>Claims</u>. Any claim by Buyer against Omron for shortage or damage to the Products occurring before delivery to the carrier must be presented in writing to Omron within 30 days of receipt of shipment and include the original trans-portation bill signed by the carrier noting that the carrier received the Products from Omron in the candition claims of the products of the product of the products of the product of the from Omron in the condition claimed.
- Warranties. (a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed 13 (b) <u>Limitations</u>. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABIL-

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   (ii) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.

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