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CSM_D4MC_DS_E_2_1

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

D4MC- □
(1)

(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	D4MC-5000
Panel mount roller plunger	D4MC-5020
Panel mount crossroller plunger	D4MC-5040
Hinge lever	D4MC-1000
Short hinge lever	D4MC-1020
Hinge roller lever	D4MC-2000
Short hinge roller lever	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 Standards

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.

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Ratings

Rated voltage	Non-inductive load (A)				Inductive load (A)			
	Resistive load		Lamp load		Inductive load		Motor load	
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	10		3	1.5	10		5	2.5
250 VAC	10		2.5	1.25	10		3	1.5
480 VAC	3		1.5	0.75	2.5		1.5	0.75
8 VDC	10		3	1.5	6		5	2.5
14 VDC	10		3	1.5	6		5	2.5
30 VDC	6		3	1.5	5		5	2.5
125 VDC	0.5		0.4	0.4	0.05		0.05	0.05
250 VDC	0.25		0.2	0.2	0.03		0.03	0.03

Inrush current	NC	30 A max.
	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 protection		IP67
Durability	Mechanical	10,000,000 operations min.
	Electrical	500,000 operations min.
Operating speed		0.05 mm/s to 0.5 m/s *1
Operating frequency	Mechanical	120 operations/min
	Electrical	20 operations/min
Rated frequency		50/60 Hz
Insulation resistance		100 MΩ min. (at 500 VDC)
Contact resistance		15 mΩ max. (initial value for the built-in switch when tested alone)
Dielectric strength	Between terminals of the same polarity	1,000 VAC, 50/60 Hz for 1 min
	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 (tracking characteristics)		175
Switch category		D (IEC335)
Rated operating current (Ie)		10 A
Rated operating voltage (Ue)		250 VAC
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude *2
Shock resistance	Destruction	1,000 m/s² min.
	Malfunction	100 m/s² 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 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	Current (A)		Volt-amperes (VA)	
		Make	Break	Make	Break
120 VAC	10A	60	6	7,200	720
240 VAC		30	3		

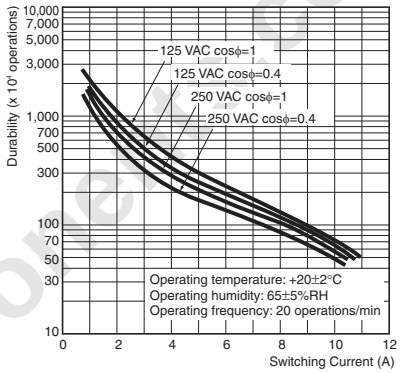
EN60947-5-1

CCC (GB14048.5)

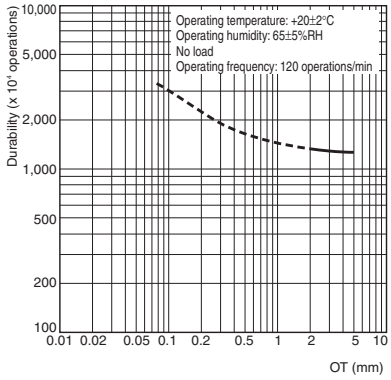
Applicable category and ratings
AC-12 10 A/250 VAC

Engineering Data

Electrical Durability



Mechanical Durability (D4MC-5000)

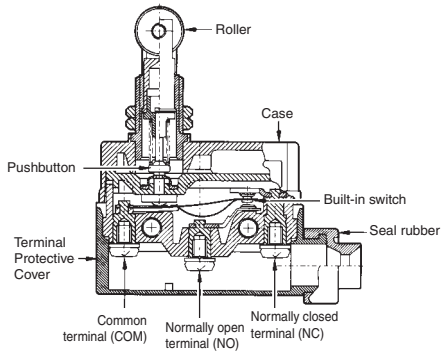


Structure and Nomenclature

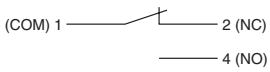
Structure

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

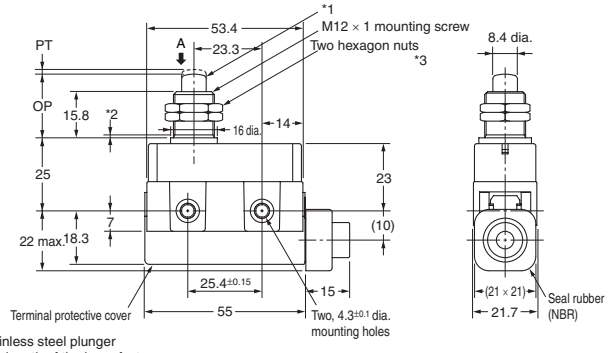


Dimensions and Operating Characteristics

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(Unit: mm)

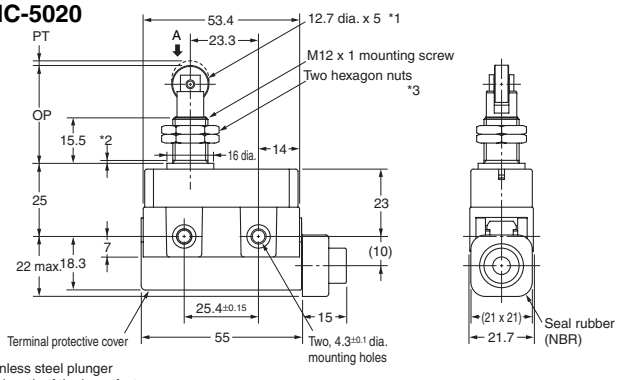
Panel Mount Plunger
D4MC-5000



*1. Stainless steel plunger
*2. The length of the imperfect threads is 1.5 mm maximum.
*3. Thickness: 3 width: 17

Note: Do not use the M12 mounting screw and the case mounting hole at the same time.

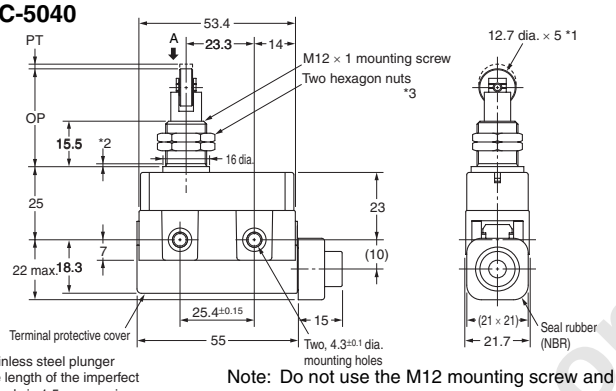
Panel Mount Roller Plunger
D4MC-5020



*1. Stainless steel plunger
*2. The length of the imperfect threads is 1.5 mm maximum.
*3. Thickness: 3 width: 17

Note: Do not use the M12 mounting screw and the case mounting hole at the same time.

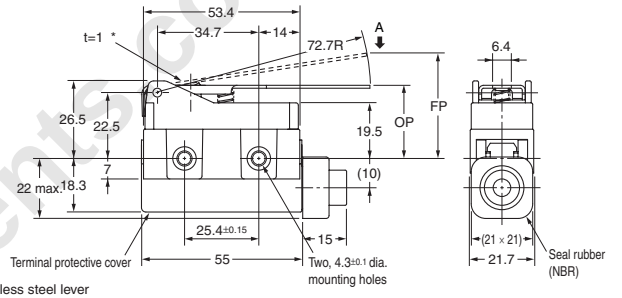
Panel Mount Crossroller Plunger
D4MC-5040



*1. Stainless steel plunger
*2. The length of the imperfect threads is 1.5 mm maximum.
*3. Thickness: 3 width: 17

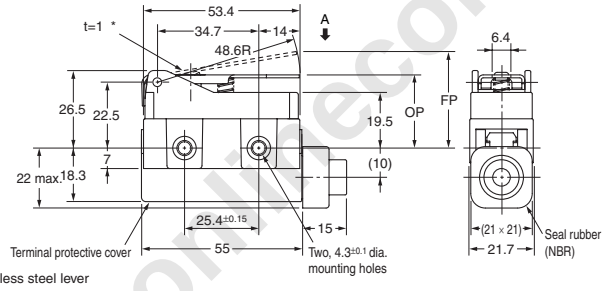
Note: Do not use the M12 mounting screw and the case mounting hole at the same time.

Hinge Lever
D4MC-1000



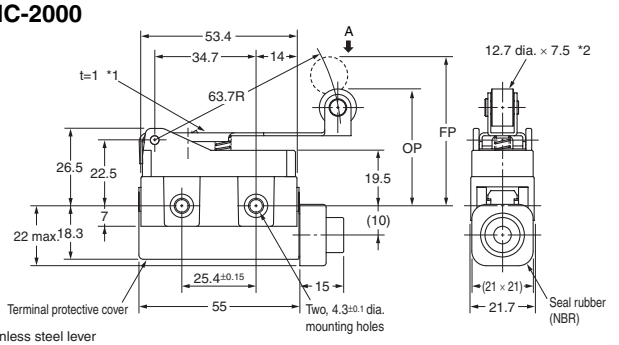
* Stainless steel lever

Short Hinge Lever
D4MC-1020



* Stainless steel lever

Hinge Roller Lever
D4MC-2000



*1. Stainless steel lever
*2. Plastic roller

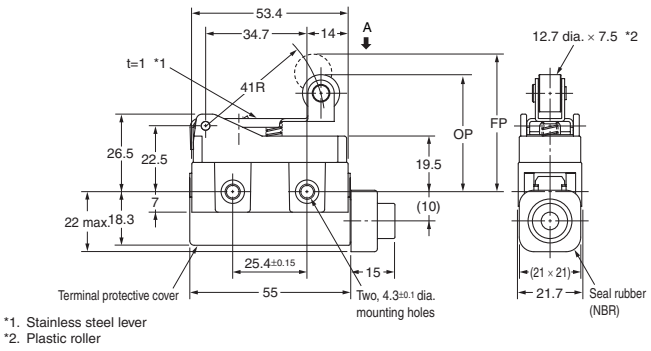
Note: 1. Unless otherwise specified, a tolerance of±0.4 mm applies to all dimensions.
2. Operating characteristics are for when the Switch is operated from direction A.
3. Make sure that the permissible OT position is not exceeded.

Operating Characteristics		Model	D4MC-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	OT	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

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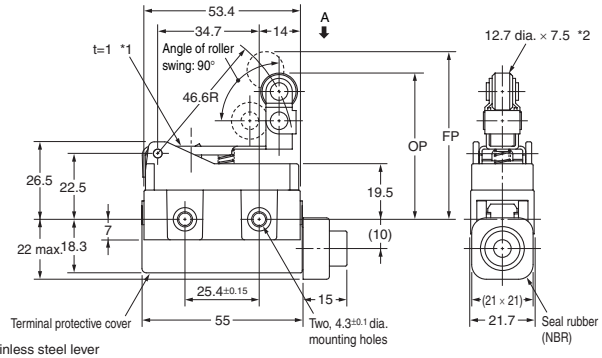
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Short Hinge Roller Lever
D4MC-2020



*1. Stainless steel lever
*2. Plastic roller

One-way Action Short Hinge Roller Lever
D4MC-3030



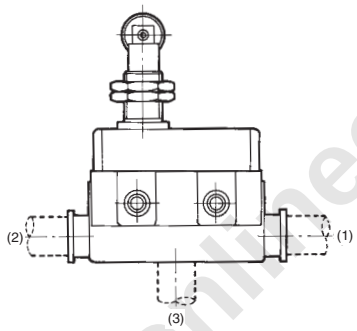
*1. Stainless steel lever
*2. Plastic roller

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.



Suffix by Location of Lead Outlet

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

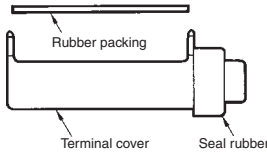
Specifications / Leads	Nominal cross-sectional area mm²	External diameter mm	Terminal connections	Cable length m
V.C.T. (Vinyl cabtire cable)	1.25	3 conductor 10.5 dia.	Black: COM White: NO Red: NC	1, 3

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)

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Safety Precautions

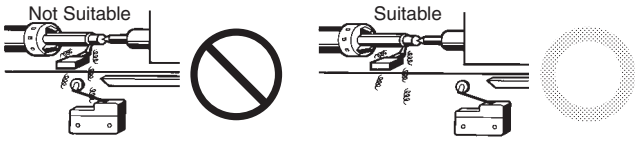
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Refer to *Safety Precautions for All Limit Switches*.

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.



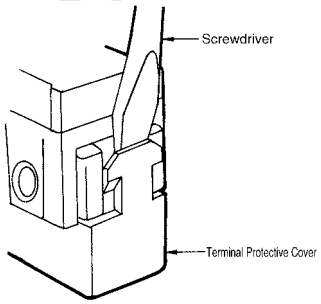
- Constantly subjecting a Switch to vibration or shock can result in wear, which can lead to contact interference with contacts, operation failure, reduced durability, and other problems. Excessive vibration or shock can lead to false contact operation or damage. Install Switches in locations not subject 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 (SiO_2) 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

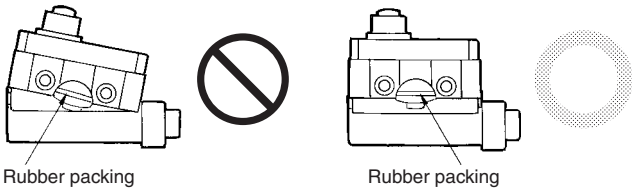
Excessive dog angle, operating speed, or overtravel (OT) may damage the actuator. Check that OT has a sufficient margin. The actual OT should be rated OT × 0.7 to 1.

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^2.)
- 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.



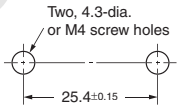
- When mounting the Terminal Protective Cover to the case, align the cover on the case and then press the cover down to mount it firmly. If the cover is pressed down in an inclined position, rubber packing will deform and thus affect the sealing capability.



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.

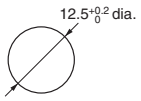
Mounting Holes



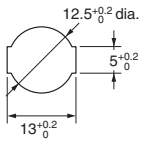
- When mounting the Panel Mount-type Switch (D4MC-5000, D4MC-5020, or D4MC-5040) with screws on a side surface, remove the hexagonal nuts from the actuator.
- When mounting the panel mount type on a panel, be careful not to tighten to an excessive torque. Tightening the screws to a torque exceeding 4.91 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 torque as shown in the table.

No.	Type	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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5. Orders. Omron will accept no order less than $200 net billing.
6. Governmental Approvals. Buyer shall be responsible for, and shall bear all costs involved in, obtaining any government approvals required for the importation or sale of the Products.
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8. Financial. If the financial position of Buyer at any time becomes unsatisfactory to Omron, Omron reserves the right to stop shipments or require satisfactory security or payment in advance. If Buyer fails to make payment or otherwise comply with these Terms or any related agreement, Omron may (without liability and in addition to other remedies) cancel any unshipped portion of Products sold hereunder and stop any Products in transit until Buyer pays all amounts, including amounts payable hereunder, whether or not then due, which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid accounts.
9. Cancellation; Etc. Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Omron against all related costs or expenses.
10. Force Majeure. Omron shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
11. Shipping; Delivery. Unless otherwise expressly agreed in writing by Omron:
    a. Shipments shall be by a carrier selected by Omron; Omron will not drop ship except in "break down" situations.
    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 otherwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid;
    d. Delivery and shipping dates are estimates only; and
    e. Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
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