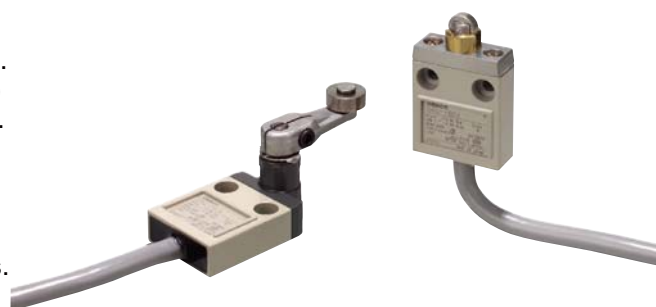


Compact Limit Switch That's Also Thin and Highly Sealed



- Approved by EN, UL, CSA, and CCC (Chinese standard).
(Ask your OMRON representative for information on approved models.)
- Sealing characteristics that meet IEC IP67 degree of protection.
- Triple-sealed construction:
Plunger section sealed via nitrile rubber packing seal and diaphragm; switch section sealed via nitrile rubber cap; cable entrance sealed via encapsulating material.
- Cable lengths of 3 and 5 m available on standard models.
Models also available with UL and CSA-certified cables.
- Multiple mounting possible with Switches with Plungers.
- Models with red LED indicators added to series for easy confirmation of operation.
(Set by default to light for non-operation.)
- VCTF cables with CE marking.
(Applicable only to standard models.)



Be sure to read *Safety Precautions* on page 13 to 14 and *Safety Precautions for All Limit Switches*.

Model Number Structure

Model Number Legend

Standard Models

D4C-□□□□
(1)(2)(3)

(1) Rated Current

- 1: 5 A at 250 VAC, 4 A at 30 VDC
- 2: 5 A at 125 VAC (with LED indicator)
- 3: 4 A 30 VDC (with LED indicator)
- 4: 0.1 A at 125 VAC, 0.1 A at 30 VDC
- 5: 0.1 A at 125 VAC (with LED indicator)
- 6: 0.1 A at 30 VDC (with LED indicator)

(2) Cable Specifications

- 2: VCTF oil-resistant cable (3 m)
- 3: VCTF oil-resistant cable (5 m)
- 4: VCTF (3 m)
- 5: VCTF (5 m)
- 6: SJT(O) (3 m)
- 7: SJT(O) (5 m)

(3) Actuator

- 01: Pin plunger
- 02: Roller plunger
- 03: Crossroller plunger
- 20: Roller lever
- 24: Roller lever (high-sensitivity model)
- 31: Sealed pin plunger
- 32: Sealed roller plunger
- 33: Sealed crossroller
- 50: Plastic rod
- 60: Center roller lever

Pre-wired Models

D4C-□0□□-□□□□□□
(1) (2) (3) (4)

(1) Rated Current

- 1: 1 A at 125 VAC, 1 A at 30 VDC
(Without operation indicator)
- 2: 1 A at 125 VAC (with operation indicator)
- 3: 1 A at 30 VDC (with operation indicator)

(2) Actuator

- 01: Pin plunger
- 02: Roller plunger
- 31: Sealed plunger
- 32: Sealed roller plunger
- 24: Roller lever (high-sensitivity model)

(3) Wiring Specifications

- DK1EJ: Pre-wired models
(3 conductors: DC specification)
- AK1EJ: Pre-wired models
(3 conductors: AC specification)
- M1J: Connector models for ASI devices
(2 conductors: NO wiring)

(4) Cable length

- 03: 0.3 m

Wiring Specifications

Internal switch	Connector
COM	3
NC	2
NO	4

Weather-resistant Models

D4C-□□□□-P
(1)(2)(3) (4)

(1) Rated Current

- 1: 5 A at 250 VAC, 4 A at 30 VDC
- 2: 5 A at 125 VAC (with LED indicator)
- 3: 4 A at 30 VDC (with LED indicator)
- 4: 0.1 A at 125 VAC, 0.1 A at 30 VDC

(2) Cable Specifications

- 2: VCTF oil-resistant cable (3 m)
- 3: VCTF oil-resistant cable (5 m)

(3) Actuator

- 20: Roller lever
- 24: Roller lever (high-sensitivity model)
- 27: Adjustable roller lever
- 29: Adjustable rod lever

(4) Structure

- P: Weather-resistant

Ordering Information

Switches

Switches with No Operation Indicator

Actuator	Ratings Cable Cable length (m)	Standard			Microload	
		5 A at 250 VAC, 4 A at 30 VDC			0.1 A at 125 VAC, 0.1 A at 30 VDC	
		VCTF oil-resistant cable *1	VCTF cable *2	SJT(O) cable *3	VCTF oil-resistant cable *1	VCTF cable *2
		Model				
Pin plunger 	3	D4C-1201	D4C-1401	D4C-1601	D4C-4201	D4C-4401
	5	D4C-1301	D4C-1501	D4C-1701	D4C-4301	D4C-4501
Roller plunger 	3	D4C-1202	D4C-1402	D4C-1602	D4C-4202	D4C-4402
	5	D4C-1302	D4C-1502	D4C-1702	D4C-4302	D4C-4502
Crossroller plunger 	3	D4C-1203	D4C-1403	D4C-1603	D4C-4203	D4C-4403
	5	D4C-1303	D4C-1503	D4C-1703	D4C-4303	D4C-4503
Roller lever 	3	D4C-1220	D4C-1420	D4C-1620	D4C-4220	D4C-4420
	5	D4C-1320	D4C-1520	D4C-1720	D4C-4320	D4C-4520
Roller lever, high -sensitivity 	3	D4C-1224	D4C-1424	D4C-1624	D4C-4224	D4C-4424
	5	D4C-1324	D4C-1524	D4C-1724	D4C-4324	D4C-4524
Sealed pin plunger 	3	D4C-1231	D4C-1431	D4C-1631	D4C-4231	D4C-4431
	5	D4C-1331	D4C-1531	D4C-1731	D4C-4331	D4C-4531
Sealed roller plunger 	3	D4C-1232	D4C-1432	D4C-1632	D4C-4232	D4C-4432
	5	D4C-1332	D4C-1532	D4C-1732	D4C-4332	D4C-4532
Sealed crossroller plunger 	3	D4C-1233	D4C-1433	D4C-1633	D4C-4233	D4C-4433
	5	D4C-1333	D4C-1533	D4C-1733	D4C-4333	D4C-4533
Plastic rod 	3	D4C-1250	D4C-1450	D4C-1650	D4C-4250	D4C-4450
	5	D4C-1350	D4C-1550	D4C-1750	D4C-4350	D4C-4550
Center roller lever 	3	D4C-1260	D4C-1460	D4C-1660	D4C-4260	D4C-4460
	5	D4C-1360	D4C-1560	D4C-1760	D4C-4360	D4C-4560

Note: 1. Models are available separately with resistance to viscous oils (oil drain holes are also available), but only with Plunger Models. Add "-M" to the model number (example: D4C-1202 would be D4C-1202-M).

2. Switches with variable roller levers are also available. Ask your nearest OMRON representative for details.

*1. Oil-resistant vinyl cabtire cables; approved by EN and IEC.

*2. Ordinary vinyl cabtire cables; approved by EN and IEC.

*3. Switches with SJT(O) Cables (cables approved by UL and CSA) are approved by UL and CSA.

Standard Switches with Operation Indicator (Red)

Actuator	Ratings Cable length (m)	0.1 A at 125 VAC		0.1 A at 30 VDC	
		VCTF oil-resistant cable *1	VCTF cable *2	VCTF oil-resistant cable *1	VCTF cable *2
		Model			
Pin plunger 	3	D4C-2201	D4C-2401	D4C-3201	D4C-3401
	5	D4C-2301	D4C-2501	D4C-3301	D4C-3501
Roller plunger 	3	D4C-2202	D4C-2402	D4C-3202	D4C-3402
	5	D4C-2302	D4C-2502	D4C-3302	D4C-3502
Crossroller plunger 	3	D4C-2203	D4C-2403	D4C-3203	D4C-3403
	5	D4C-2303	D4C-2503	D4C-3303	D4C-3503
Roller lever 	3	D4C-2220	D4C-2420	D4C-3220	D4C-3420
	5	D4C-2320	D4C-2520	D4C-3320	D4C-3520
Roller lever, high-sensitivity 	3	D4C-2224	D4C-2424	D4C-3224	D4C-3424
	5	D4C-2324	D4C-2524	D4C-3324	D4C-3524
Sealed pin plunger 	3	D4C-2231	D4C-2431	D4C-3231	D4C-3431
	5	D4C-2331	D4C-2531	D4C-3331	D4C-3531
Sealed roller plunger 	3	D4C-2232	D4C-2432	D4C-3232	D4C-3432
	5	D4C-2332	D4C-2532	D4C-3332	D4C-3532
Sealed crossroller plunger 	3	D4C-2233	D4C-2433	D4C-3233	D4C-3433
	5	D4C-2333	D4C-2533	D4C-3333	D4C-3533
Plastic rod 	3	D4C-2250	D4C-2450	D4C-3250	D4C-3450
	5	D4C-2350	D4C-2550	D4C-3350	D4C-3550
Center roller lever 	3	D4C-2260	D4C-2460	D4C-3260	D4C-3460
	5	D4C-2360	D4C-2560	D4C-3360	D4C-3560

Note: Ask your nearest OMRON representative for information on Switching with approved international standards.

*1. Oil-resistant vinyl cabtire cables; approved by EN and IEC.

*2. Ordinary vinyl cabtire cables.; approved by EN and IEC.

Microload Switches with Operation Indicator

Actuator	Ratings Cable length (m)	0.1 A at 125 VAC		0.1 A at 30 VDC	
		VCTF oil-resistant cable*		VCTF oil-resistant cable*	
		Model			
Pin plunger 	3	D4C-5201		D4C-6201	
	5	D4C-5301		D4C-6301	
Roller plunger 	3	D4C-5202		D4C-6202	
	5	D4C-5302		D4C-6302	
Crossroller plunger 	3	D4C-5203		D4C-6203	
	5	D4C-5303		D4C-6303	
Roller lever 	3	D4C-5220		D4C-6220	
	5	D4C-5320		D4C-6320	
Roller lever, high-sensitivity 	3	D4C-5224		D4C-6224	
	5	D4C-5324		D4C-6324	
Sealed pin plunger 	3	---		D4C-6231	
	5	---		D4C-6331	
Sealed roller plunger 	3	D4C-5232		D4C-6232	
	5	D4C-5332		D4C-6332	
Sealed crossroller plunger 	3	---		D4C-6233	
	5	---		D4C-6333	
Plastic rod 	3	D4C-5250		D4C-6250	
	5	D4C-5350		D4C-6350	

Note: Ask your nearest OMRON representative for information on Switching with approved international standards.

* Oil-resistant vinyl cabtire cables; approved by EN and IEC.

Pre-wired Models (Use VCTF Oil-resistant Cable)

Actuator	Ratings Operation indicator	1 A at 125 VAC		1 A at 30 VDC	
		Without operation indicator	With operation indicator	Without operation indicator	With operation indicator
Pin plunger 		D4C-1001-AK1EJ□	D4C-2001-AK1EJ□	D4C-1001-DK1EJ□	D4C-3001-DK1EJ□
Roller plunger 		D4C-1002-AK1EJ□	D4C-2002-AK1EJ□	D4C-1002-DK1EJ□	D4C-3002-DK1EJ□
Sealed plunger 		D4C-1031-AK1EJ□	D4C-2031-AK1EJ□	D4C-1031-DK1EJ□	D4C-3031-DK1EJ□
Sealed roller plunger 		D4C-1032-AK1EJ□	D4C-2032-AK1EJ□	D4C-1032-DK1EJ□	D4C-3032-DK1EJ□
Roller lever (high-sensitivity model) 		D4C-1024-AK1EJ□	D4C-2024-AK1EJ□	D4C-1024-DK1EJ□	D4C-3024-DK1EJ□

Note: 1. The □ contains the length of the cable.

For example: 30 cm → 4C-1001-AK1EJ03

2. M1J models are also available. Contact your OMRON sales representative for further information.

3. Of the above model numbers, some with special specifications are not registered.

Weather-resistant Models

		Operation indicator	Without operating indication		With operating indication	
			Standard	Microload	Standard	
		Ratings	5 A at 250 VAC 4 A at 30 VDC	0.1 A at 125 VAC 0.1 A at 30 VDC	5 A at 125 VAC	4 A at 30 VDC
Actuator	Cable length (m)	Model				
Roller lever		3	D4C-1220-P	D4C-4220-P	D4C-2220-P	D4C-3220-P
		5	D4C-1320-P	---	---	---
Roller lever (high-sensitivity model)		3	D4C-1224-P	D4C-4224-P	D4C-2224-P	D4C-3224-P
		5	D4C-1324-P	D4C-4324-P	D4C-2324-P	D4C-3324-P
Adjustable roller lever		3	D4C-1227-P	D4C-4227-P	D4C-2227-P	D4C-3227-P
		5	D4C-1327-P	D4C-4327-P	D4C-2327-P	D4C-3327-P
Adjustable rod lever		3	D4C-1229-P	D4C-4229-P	---	D4C-3229-P
		5	D4C-1329-P	---	D4C-2329-P	D4C-3329-P

Note: Silicon rubber is used to increase resistance to the environment. Silicon rubber, however, can generate silicon gas. (This can occur at room temperature, but the amount of silicon gas generated increases at higher temperatures.) Silicon gas will react as a result of arc energy and form silicon oxide (SiO₂). If silicon oxide accumulates on the contacts, contact interference can occur and can interfere with the device. Before using a Switch, test it under actual application conditions (including the environment and operating frequency) to confirm that no problems will occur in actual.

Mounting Plates(Order Separately)

The WL model incorporated by equipment can be replaced with the D4C together with the Mounting Plate without changing the position of the dog or cam.

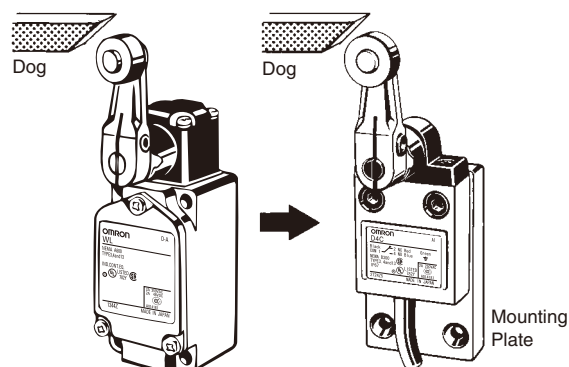
List of Replaceable Models

WL model (Actuator)	D4C model (Actuator)	Plate
WLD/WL01D (Top plunger)	→ D4C-□□01 (Plunger)	D4C-P001
WLD2/WL01D2 (Toproller plunger)	→ D4C-□□02 (Roller plunger)	D4C-P002
WLC A2/WL01CA2 (Roller lever)	→ D4C-□□20 (Roller lever)	D4C-P020

Note: The WL01□ is for micro loads.

Example of Replacement

Note: The position of the dog remains unchanged.



Individual Parts

Head/Actuator

Actuator	Head (with actuator)	Actuator
Pin plunger	D4C-0001	---
Roller plunger	D4C-0002	---
Crossroller plunger	D4C-0003	---
Roller lever	D4C-0020	WL-1A100
Environment-resistant roller lever	D4C-0020-P	WL-1A100P1
Roller lever	D4C-0024	WL-1A100
Variable roller lever	D4C-0027	HL-1HPA320
Variable rod lever	D4C-0029	HL-1HPA500
Sealed pin plunger	D4C-0031	---
Sealed roller plunger	D4C-0032	---
Sealed crossroller plunger	D4C-0033	---
Plastic rod	D4C-0050	---
Center roller lever	D4C-0060	---

Note: 1. The model numbers for heads are of the form D4C-00□□, with the numbers in the squares indicating the type of actuator.

2. Actuators for plunger models, plastic rod models, and center roller lever models cannot be ordered individually. They must be ordered together with the head.