# ZC-∏55

CSM\_ZC-\_55\_DS\_E\_3\_1

# Small, High-precision Enclosed Switch

- Small, High-precision Enclosed Switches with Built-in Basic Switches for High Repeatability and Durability of 10 Million Operations Minimum.
- Same mounting pitch as Z Basic Switch.
- Requires less operating force than conventional limit switches.
- Lineup includes modes with operation indicators for easy maintenance and inspection.
- Approved by EN, UL, CSA, and CCC (Chinese standard). (Ask your OMRON representative for Information on approved models.)



Be sure to read Safety Precautions on page 8 and Safety Precautions for All Limit Switches.





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

# **Model Number Structure**

# **Model Number Legend**

**ZC-**□55 (1)

(1) Actuator

Plunger

Panel mount plunger Q22: Panel mount roller plunger

Q21: Panel mount crossroller plunger

N22: Sealed roller plunger

N21: Sealed crossroller plunger

Short hinge lever

W1: Hinge lever

W2: Short hinge roller lever W21: Hinge roller lever

W3: One-way action short hinge roller lever W31: One-way action hinge roller lever

# **Ordering Information**

Actuator		Model	Appro	ved Star	ndards
Actuator		Wodei	UL	CSA	EN
Plunger	Δ	ZC-D55	•	•	•
Panel mount plunger	盘	ZC-Q55	•	•	•
Panel mount roller plunger	PP PP	ZC-Q2255	•	•	•
Panel mount crossroller plunger	盘	ZC-Q2155	•	•	•
Sealed roller plunger	<u>R</u>	ZC-N2255	•	•	•
Sealed crossroller plunger	A	ZC-N2155	•	•	•
Short hinge lever	<b>~</b>	ZC-W55	•	•	•
Hinge lever		ZC-W155	•	•	•
Short hinge roller lever	<b>R</b>	ZC-W255	•	•	•
Hinge roller lever	9	ZC-W2155	•	•	•
One-way action short hinge roller lever	- Q	ZC-W355	•	•	•
One-way action hinge roller lever	→ @	ZC-W3155	•	•	•

Note: 1. Use molded terminal models when using the Switch under one of the following conditions: a) dusty, b) high amount of dripping oil, or c) high humidity. Refer to Molded Terminal Model in page 2 for the details.

<sup>2.</sup> Models are available with lead outlets in three positions: right-hand, left-hand, and underside.

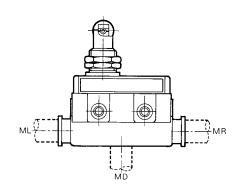
# **Molded Terminal Model**

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 in each. Not approved by UL, CSA or EN.

Actuator	Location of lead output	Left-hand	Right-hand	Underside
Plunger	1 M	ZC-D55-ML VCT 1M	ZC-D55-MR VCT 1M	ZC-D55-MD VCT 1M
Fluilgei	3 M	ZC-D55-ML VCT 3M	ZC-D55-MR VCT 3M	ZC-D55-MD VCT 3M
Panel mount plunger	1 M	ZC-Q55-ML VCT 1M	ZC-Q55-MR VCT 1M	ZC-Q55-MD VCT 1M
Parier mount plunger	3 M	ZC-Q55-ML VCT 3M	ZC-Q55-MR VCT 3M	-
Panel mount roller plunger	1 M	ZC-Q2255-ML VCT 1M	ZC-Q2255-MR VCT 1M	ZC-Q2255-MD VCT 1M
Parier mount roller plunger	3 M	ZC-Q2255-ML VCT 3M	ZC-Q2255-MR VCT 3M	ZC-Q2255-MD VCT 3M
Panel mount crossroller plunger	1 M	ZC-Q2155-ML VCT 1M	ZC-Q2155-MR VCT 1M	ZC-Q2155-MD VCT 1M
Parier mount crossroller plunger	3 M	-	ZC-Q2155-MR VCT 3M	ZC-Q2155-MD VCT 3M
Cooled valley when you	1 M	ZC-N2255-ML VCT 1M	ZC-N2255-MR VCT 1M	ZC-N2255-MD VCT 1M
Sealed roller plunger	3 M	ZC-N2255-ML VCT 3M	ZC-N2255-MR VCT 3M	ZC-N2255-MD VCT 3M
Sealed crossroller plunger	1 M	ZC-N2155-ML VCT 1M	ZC-N2155-MR VCT 1M	ZC-N2155-MD VCT 1M
Sealed Crossioner plunger	3 M	ZC-N2155-ML VCT 3M	ZC-N2155-MR VCT 3M	-
Short hinge lever	1 M	-	ZC-W55-MR VCT 1M	-
Hinge lever	1 M	ZC-W155-ML VCT 1M	ZC-W155-MR VCT 1M	ZC-W155-MD VCT 1M
Short hinge roller lever	1 M	ZC-W255-ML VCT 1M	ZC-W255-MR VCT 1M	ZC-W255-MD VCT 1M
Hinge roller lever	1 M	ZC-W2155-ML VCT 1M	ZC-W2155-MR VCT 1M	ZC-W2155-MD VCT 1M
One-way action short hinge roller lever	1 M	-	ZC-W355-MR VCT 1M	-

# Location of lead output

Right-hand	MR
Left-hand	ML
Underside	MD



# **Lead Supplies**

Leads	Specifi- cation	Nominal cross-sectional area (mm²)	External diameter (mm)	Terminal connections
V.C.T. (vinyl cabtire cable)		1.25	3 conductor: 10.5 dia.	Black: COM White: NO Red: NC

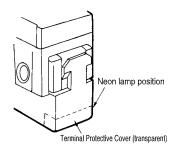
# **Operation Indicator-equipped Models**

Some models can be equipped upon request with a operation indicator to facilitate maintenance and inspection. Because the indicator is incorporated in the Terminal Protective Cover, the dimensions of the Limit Switch are not affected. In this model, the lead wire is to be connected to the screw terminal. (A connecting washer is provided on the tip of the lead wire). The lead wire can be connected to either the NC or NO terminal. Operating characteristics are the same as the basic model from in each. Not approved by UL, CSA and EN.

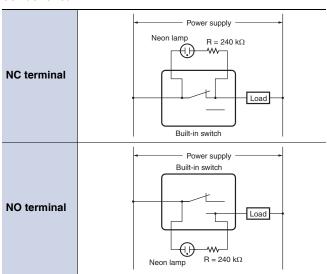
Actuator	AC	DC (12VDC)	DC (24VDC)
Plunger	ZC-D55-L	-	ZC-D55-L4
Panel mount plunger	ZC-Q55-L	-	ZC-Q55-L4
Panel mount roller plunger	ZC-Q2255-L	ZC-Q2255-L2	ZC-Q2255-L4
Panel mount crossroller plunger	ZC-Q2155-L	-	ZC-Q2155-L4
Sealed roller plunger	ZC-N2255-L	ZC-N2255-L2	ZC-N2255-L4
Sealed crossroller plunger	ZC-N2155-L	ZC-N2155-L2	ZC-N2155-L4
Hinge lever	ZC-W155-L	-	ZC-W155-L4
Short hinge roller lever	ZC-W255-L	-	ZC-W255-L4
Hinge roller lever	ZC-W2155-L	-	ZC-W2155-L4

### (For AC)

- The operating voltage range is from 90 to 250 VAC.
- The dimensions are the same as the standard type. The top of the Terminal Protective Cover is transparent to allow checking the operation easily.



### **Contact Circuit**

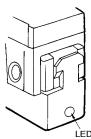


Note: If the wiring is as shown above, the operation of the respective parts will be as shown in the following table. The neon lamp is not wired when the Switch is delivered. Connect it as required.

Contact	Neon lamp	Load	Actuator
NC	ON	Does not operate	Operates
NC	OFF	Operates	Does not operate
NO ON		Does not operate	Does not operate
NO	OFF	Operates	Operates

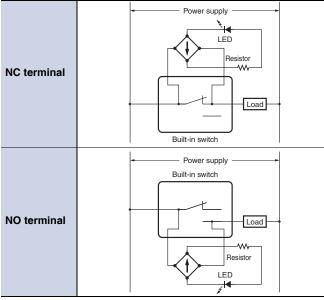
### (For DC)

- The DC-operated is provided with an LED indicator.
- There is no protective structure.
- Since a rectifier stack is incorporated into the unit to permit reversing the polarity, this type can also operate on AC power source.
- The LED projects from the housing for easy visibility.



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

# **Contact Circuit**



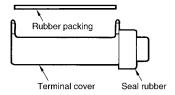
Note: If the wiring is as shown above, the operation of the respective parts will be as shown in the following table. The LED terminals are not wired when the Switch is delivered. Connect it as required.

		•	
Contact	LED	Load	Actuator
NC	ON	Does not operate	Operates
OFF	Operates	Does not operate	
NO	ON	Does not operate	Does not operate
140	OFF	Operates	Operates

# **Accessories**

	MODEL
ZC Terminal Cover	TERMINAL COVER FOR ZC55
ZC Seal Rubber	SC-R40
ZC Rubber Packing	ZC RUBBER PACKING

Note: The Switch is equipped with these 3 items as a standard.



# **Specifications**

# **Approved Standards**

Agency	Standard	File No.
UL*	UL508	E76675
TÜV Rheinland	EN60947-1, EN60947-5-1	J50041904
CCC(CQC)	GB14048.5	2003010303077620

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

### Ratings

Detect	Non-	Non-inductive load (A)				Inductive load (A)			
Rated voltage	Resisti	ve load	Lamp	load	Inducti	ve load	Moto	r load	
voltage	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	
8 VDC	10		3	1.5	6		5	2.5	
<b>14 VDC</b>	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	NC	30 A max.
current	NO	15 A max.

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).
- 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 according.
  - (1) Ambient temperature:+20±2°C

  - (2) Ambient humidity: 65±5%RH
    (3) Operating frequency:20 operations/min.

# **Approved Standard Ratings UL/CSA**

### A300

Voltage	Carry current	Curre	nt (A)	Volt-amperes (VA)	
	Current	Make	Break	Make	Break
120 VAC 240 VAC	10A	60 30	6 3	7,200	720

TÜVRheinland (EN60947-1, EN60947-5-1), CCC (GB14048.5)

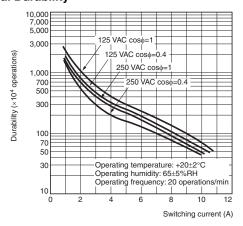
Applicable category and ratings
AC-12 10 A/250 VAC

# Characteristics

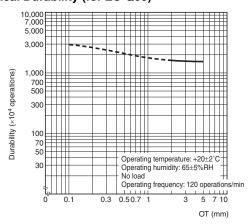
Degree of p	rotections	IP67		
Durability	Mechanical	10,000,000 operations min.		
Durability	Electrical	500,000 operations min.		
Operating s	peed	0.05 mm/s to 0.5 m/s *1		
Operating	Mechanical	120 operations/min		
frequency	Electrical	20 operations/min		
Insulation r	esistance	100 MΩ min. (at 500 VDC)		
Contact res	istance	15 m $\Omega$ max. (initial value for the builtin switch when tested alone)		
Dielectric	Between non-continuous terminals	1,000 VAC, 50/60 Hz for 1 min		
strength	Between each terminal and non-current-carry-ing metal parts	2,000 VAC, 50/60 Hz for 1 min		
Rated insul	ation voltage (Ui)	1,000 VAC		
Pollution de (operating e	egree environment)	3 (IEC947-5-1)		
Short-circu	it protective device	10 A-fuse type gG (IEC 60269)		
Protection a	against electric shock	Class II		
Proof track	ing index (PTI)	175		
Switch cate	gory	D (IEC335)		
Rated opera	ating current (le)	10 A		
Rated opera	ating voltage (Ue)	250 VAC		
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude *2		
Shock	Destruction	1,000 m/s <sup>2</sup> max.		
resistance	Malfunction	300 m/s² max. (in case of plunger model) *1 *2		
Ambient op	erating temperature	-10°C to +80°C (with no icing)		
Ambient op	erating humidity	35% to 95%RH		
Weight		Approx. 92 g (in case of ZC-Q22(21)55)		

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

# **Engineering Data Electrical Durability**



# Mechanical Durability (for ZC-Q55)

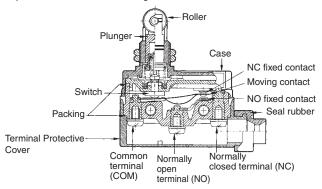


<sup>\*2.</sup> Less than 1 ms under a free state at the operating limits.

# **Structure and Nomenclature**

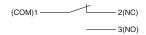
### Structure

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



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

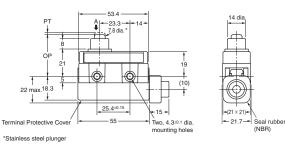
# **Contact Form**



# **Dimensions and Operating Characteristics**

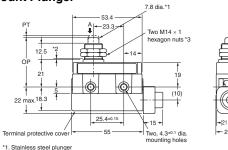
(Unit: mm)

# **Plunger** ZC-D55



# **Panel Mount Plunger**

**ZC-Q55** 

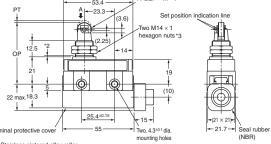


- \*1. Stainless steel plunger
  \*2. The length of the imperfect threads is 1.5 mm maximum
  \*3. Thickness: 3 width: 17

Note: Do not use the M14 mounting screw and the case mounting hole at the same time.

# **Panel Mount Roller Plunger**

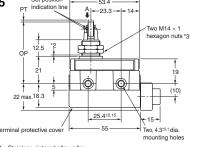
**ZC-Q2255** 



- Stainless sintered alloy roller The length of the imperfect threads is 1.5 mm maximum.
- Thickness: 3 width: 17
  - Note: Do not use the M14 mounting screw and the case mounting hole at the same time.

# **Panel Mount Crossroller Plunger**

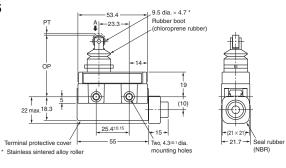
Set position ZC-Q2155



- Stainless sintered alloy roller
  The length of the imperfect threads is 1.5 mm maximum.
  Thickness: 3 width: 17 Note: Do not use the M14 mounting screw and the case mounting hole at the same time.

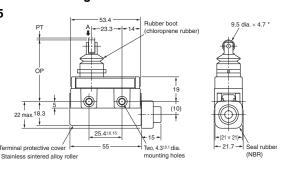
# Sealed Roller Plunger

ZC-N2255



# **Sealed Crossroller Plunger**

ZC-N2155



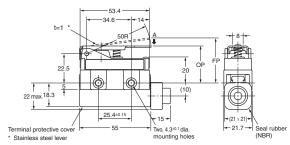
Note: 1. Unless otherwise specified, a tolerance of  $\pm 0.4$  mm applies to all dimensions.

2. Operating characteristics are for when the Switch is operated from direction A.

(NBR)

# **Short Hinge Roller Lever**

**ZC-W55** 



# 

mounting holes

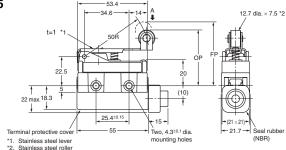
. Two. 4.3<sup>±0.1</sup> dia - 21.7-

Seal rubber

(NBR)

# **Short Hinge Roller Lever**

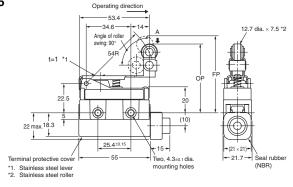
**ZC-W255** 



# Hinge Roller Lever ZC-W2155 12.7 dia. × 7.5 '2 12.7 dia. × 7.5 '2 12.8 dia. × 7.5 '2 12.7 dia. × 7.5 '2 12.7 dia. × 7.5 '2 12.7 dia. × 7.5 '2

# One-way Action Short Hinge Roller Lever

ZC-W355



# One-way Action Hinge Roller Lever

\*1. Stainless steel lever \*2. Stainless steel roller

ZC-W3155

Operating direction

53.4

34.6

12.7 dia. × 7.5 '2

13. Stainless steel lever

13. Stainless steel lever

14. Stainless steel lever

15. Stainless steel lever

16. Stainless steel lever

17. Stainless steel lever

18. Stainless steel lever

19. Stainless steel lever

10. Stainless steel lever

Note: 1. Unless otherwise specified, a tolerance of  $\pm 0.4 \ \text{mm}$  applies to all dimensions.

2. Operating characteristics are for when the Switch is operated from direction A.

<b>Operating Characteristi</b>	ics	Model	ZC-D55	ZC-Q55	ZC-Q2255	ZC-Q2155	ZC-N2255 *	ZC-N2155 *
Operating force	OF	max.	11.8 N	11.8 N	11.8 N	11.8 N	6.86 N	6.86 N
Release force	RF	min.	4.9 N	4.9 N	4.9 N	4.9 N	1.67 N	1.67 N
Pretravel	PT	max.	1.5 mm					
Overtravel	ОТ	min.	2.4 mm	3 mm	3 mm	3 mm	2.5 mm	2.5 mm
Movement Differential	MD	max.	0.2 mm					
Free Position	FP	max.						
Operating Position	OP		32.4±0.8 mm	38.2±0.8 mm	47.4±0.8 mm	47.4±0.8 mm	47.4±0.8 mm	47.4±0.8 mm

<sup>\*</sup> Make sure that the permissible OT position is not exceeded.

<b>Operating Characteristi</b>	cs I	Model	ZC-W55	ZC-W155	ZC-W255	ZC-W2155	ZC-W355	ZC-W3155
Operating force	OF	max.	3.92 N	2.75 N	3.92 N	2.75 N	3.92 N	2.75 N
Release force	RF	min.	0.78 N	0.59 N	0.78 N	0.59 N	0.78 N	0.59 N
Pretravel	PT	max.						
Overtravel	ОТ	min.	6 mm	8.4 mm	6 mm	8.4 mm	6 mm	8.4 mm
<b>Movement Differential</b>	MD	max.	1 mm	1.4 mm	1 mm	1.4 mm	1 mm	1.4 mm
Free Position Operating Position	FP OP	max.	34.7 mm 28.5±1.2 mm	36.7 mm 28.5±1.2 mm	49.2 mm 43±1.2 mm	51.3 mm 43±1.2 mm	59.2 mm 53±1.2 mm	61.2 mm 53±1.2 mm

# **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.



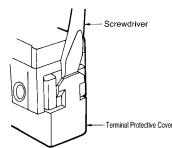
- Constantly subjecting a Switch to vibration or shock can result in wear, which can lead to contact interference with contacts, operation failure, reduced durability, and other problems.
   Excessive vibration or shock can lead to false contact operation or damage. Install Switches in locations not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

# **Dog Angle**

When operating the roller type, be sure to set the dog angle to less than  $30^\circ$  (even when operating at a low speed). Operating the model at a dog angle exceeding  $30^\circ$  will soon cause abrasion or damage. Do not apply a twisting force to the plunger. Set the OT to 70% to 100% of the specified value so that the actuator will not exceed the OT.

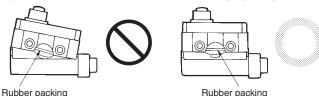
### Handling

 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,

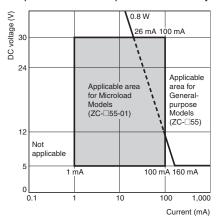
align the cover on the case and then press the cover down to mount it firmly. If the cover is pressed down in an inclined position, rubber packing will deform and thus affect the sealing capability.



- A 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 mm².)
- Use weather-proof rubber (chloroprene rubber) as seal rubber for the ZC-N22(21)55.

### **Micro Load Models**

Contact failure may occur is a General-purpose Switch is used to switch a microload circuit. Use Switches within the areas shown in the following chart. Even when using Microload Switches within the area shown below, contact wear will become more extreme with loads that generate surge current when switching and durability will be adversely affected. If necessary, insert a contact protective circuit. Microloads are indicated by N standard reference values. This value represents the failure rate at a 60% ( $\lambda$ 60) reliability level. (JIS C5003) The equation  $\lambda$ 60 = 0.5 × 10<sup>-6</sup>/operations indicates that a failure rate of 1/2,000,000 operations can be expected at a reliability level of 60%.



Model	ZC-□55-01	ZC-□55		
Minimum applicable load	5 VDC 1mA	5 VDC 160mA		

### 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.
- When mounting the Panel Mounttype Enclosed Switch (ZC-Q55, ZC-Q2255, or ZC-Q2155) with screws on a side surface, remove the hexagonal nuts from the actuator.

### **Mounting Holes**



# **Mounting Holes**



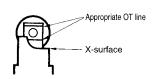
### Appropriate Tightening Torque

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	0.78 to 1.18 N·m
(2)	Panel mounting screw	4.90 to 7.84 N·m
(3)	Side mounting screw	1.18 to 1.47 N·m

### Operation

With the ZC-Q22(21)55, an appropriate OT line is marked on the plunger. Set the OT so that it is between the two X-surface lines.



# Terms and Conditions Agreement

### 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.

### 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 in writing by Omron). Omron disclaims all other warranties, express or implied.
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