General-purpose Basic Switch

Z

Best-selling Basic Switch Boasting High Precision and Wide Variety

- A large switching capacity of 15 A with high repeat accuracy.
- A wide range of variations in contact form for your selection: basic, split-contact, maintained-contact, and adjustable contact gap types.
- A series of standard models for micro loads is available.
- A series of molded terminal-type models incorporating safety terminal protective cover is available.



Model Number Structure

■ Configuration

Basic models —	General-purpose —	W.100 COM.	— Refer to page 34.
	Drip-proof	Without terminal protective cover——	Refer to individual datasheets. (Contact your OMRON representative).
	TW	With terminal protective cover	Refer to individual datasheets. (Contact your OMRON representative).
	LTW W	—— Molded terminal ————	Refer to page 36.
Split-contact models	General-purpose —	MW.100A.COMITA	— Refer to page 35.
Maintained-contact models ——	—— General-purpose –	MAN TOON TON TAN	Refer to page 36.

Basic Models

General-purpose

A variety of actuators is available for a wide range of application.

The contact mechanism of models for micro loads is a crossbar type with gold-alloy contacts, which ensures highly reliable operations for micro loads.

Contact Gap:

H2: 0.15 mm (extra-high-sensitivity)

H: 0.25 mm (high-sensitivity, micro voltage current load)

G: 0.5 mm (standard) E: 1.8 mm (high-capacity)

F: 1.0 mm (split-contact models)

Drip-proof Models

These Switches use a rubber boot on the actuator and adhesive fill between the case and cover to increase resistance to drips.

Models with drip-proof terminal protective covers and molded terminals with resin filling are also available.

Split-contact Models

This type is identical in construction to the general-purpose basic switch except that it has two pairs of simultaneous acting contacts by splitting moving contacts.

Since the moving contacts are connected to a common terminal, either parallel or series connection is possible.

Highly reliable micro load switching is ensured if the model is used as a twin-contact switch.

Maintained-contact Models

The maintained-contact type has a reset button at the bottom of the switch case, in addition to the pushbutton (plunger) located on the opposite side of the reset button. Use these buttons alternately.

Since the Switch has greater pretravel than overtravel, it is suitable for use in reversible control circuits, manual reset circuits, safety limit circuits, and other circuits which are not preferable for automatic resetting. (For further details, refer to individual datasheets.)

■ Model Number Legend

Basic Models

Z-____

1 2 3 4 5

1. Ratings

01: 0.1 A (for micro load)

15: 15 A

2. Contact Gap

H2: 0.15 (extra-high-sensitivity)

H: 0.25 mm (high-sensitivity, micro load)

G: 0.5 mm (standard)

E: 1.8 mm (high-capacity)

3. Actuator

None: Pin plunger

S: Slim spring plunger

D: Short spring plunger

K: Spring plunger (medium OP)

K3: Spring plunger (high OP)

Q3: Panel mount plunger (low OP)

Q: Panel mount plunger (medium OP)

Q8: Panel mount plunger (high OP)

Q22: Panel mount roller plunger

Q21: Panel mount cross roller plunger

L: Leaf spring (high OF)

L2: Roller leaf spring

W21: Short hinge lever

W: Hinge lever (low OF)

W3: Hinge lever (medium OF)

W32: Hinge lever (high OF)

W4: Low-force hinge lever

W44: Long hinge lever

W78: Low-force wire hinge lever (low OF)

W52: Low-force wire hinge lever (high OF)

W22: Short hinge roller lever

W2: Hinge roller lever

W25: Hinge roller lever (large roller)

W49: Short hinge cross roller lever

W54: Hinge cross roller lever

W2277: Unidirectional short hinge roller lever (Low OF)

M: Reverse hinge lever

M22: Reverse short hinge roller lever

M2: Reverse hinge roller lever

NJ: Flexible rod (high OF)

NJS: Flexible rod (low OF)

4. Degree of Protection

None: General-purpose

55: Drip-proof

A55: Drip-proof (including the terminals)

5. Terminals

None: Solder terminal

B: Screw terminal (with toothed washer)

B5V: Screw terminal with terminal cover (for Z-15G□A55 only)

Note: For combinations of models, refer to the following pages.

<u>Standard Models (Drip-proof Type/</u> Molded Terminals)

Z-□55-M□□ □M

2 3 4

1. Drip-proof Type

2. Lead Outlets

None: VSF

19: VCT

3. Directions of Lead Outlets (See following diagrams.)

L: Left

R: Right

L Type

D: Descending









4. Length of Lead Outlets

1: 1 m

3: 3 m

Split-contact Models

Z-10F□Y-B

1 2 3 4 5

1. Ratings

10: 10 A

2. Contact Gap

F: 1 mm (high-capacity)

3. Actuator

None: Pin plunger

S: Slim spring plunger

D: Short spring plunger

Q: Panel mount plunger

Q22: Panel mount roller plunger

W: Hinge lever

W22: Short hinge roller lever

W2: Hinge roller lever

M22: Reverse short hinge roller lever

4. Construction

Y: Split-contact models

5. Terminals

None: Solder terminal

B: Screw terminal (with toothed washer)

Maintained-contact Models

Z-15-E □ R

1 2 3 4

1. Ratings

15: 15 A

2. Contact Gap

E: 1.8 mm (High capacity)

3. Actuator

None: Pin plunger

S: Slim spring plunger

W: Hinge lever 4. Structure

R: Maintained-contact models

Ordering Information

■ List of Models

Basic Models (General-purpose)

NITW	Actuator	neral-purp	Standard	High-sensitivity	High-capacity	Micro load	Extra-high- sensitivity
			G (0.5 mm)	H (0.25 mm)	E (1.8 mm)	H (0.25 mm)	H2 (0.15 mm)
Pin plunger	-	Solder terminal	Z-15G	Z-15H	Z-15E	Z-01H	Z-15H2
i in plunger		Screw terminal	Z-15G-B	Z-15H-B	Z-15E-B	Z-01H-B	Z-15H2-B
Slim spring plun	ner A	Solder terminal	Z-15GS	Z-15HS	100 Y.C	Z-01HS	
Omin opining plan	ger <u> </u>	Screw terminal	Z-15GS-B	Z-15HS-B	77.0	Z-01HS-B	
Short spring		Solder terminal	Z-15GD	Z-15HD	Z-15ED	Z-01HD	
plunger		Screw terminal	Z-15GD-B	Z-15HD-B	Z-15ED-B	Z-01HD-B	
Panel mount	Low OP	Solder terminal	Z-15GQ3	- 	TAN AND SON		
plunger	N.A.	Screw terminal	Z-15GQ3-B		WW.100	COM.	4t.T
ON COE	Medium	Solder terminal	Z-15GQ	Z-15HQ	Z-15EQ	Z-01HQ	
	OP	Screw terminal	Z-15GQ-B	Z-15HQ-B	Z-15EQ-B	Z-01HQ-B	ÇN
	High OP	Solder terminal	Z-15GQ8	1	XX W.19	COM-	-5-41
	WT	Screw terminal	Z-15GQ8-B	WILL	WW.	107.	In
Panel mount roll	er 🙃	Solder terminal	Z-15GQ22	Z-15HQ22	Z-15EQ22	Y.CU	
plunger	er	Screw terminal	Z-15GQ22-B	Z-15HQ22-B	Z-15EQ22-B	1 COP	
Panel mount cro	- T	Solder terminal	Z-15GQ21	Z-15HQ21	Z-15EQ21	400	1.1.1
roller plunger	ss	Screw terminal	Z-15GQ21-B	Z-15HQ21-B	Z-15EQ21-B	. OUT CO	
Leaf spring	CONT	Solder terminal	Z-15GL	ON1		N. A. C.	22
Lear spring	•	Screw terminal	Z-15GL-B	T. M.T.W		M 100 Y.	OMITWO
Roller leaf spring	1 CONT.	Solder terminal	Z-15GL2	CON TO	WY	007.	
noner lear spring		Screw terminal	Z-15GL2-B	OY.COM.	W W	MM.Too.	COM
Short hinge lever		Solder terminal	Z-15GW21	COM		W. Fo	COMP.
WW TIN		Screw terminal	Z-15GW21-B	1001. OM.	1	1	COMITY
Hinge lever	Low OF	Solder terminal	Z-15GW	Z-15HW	·#-	A 10	Y. T
	1 C	Screw terminal	Z-15GW-B	Z-15HW-B		THE WILLIAM	COMP.
	Medium	Solder terminal	Z-15GW3	-100 y. COL	#1. \\	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	W COM.
	OF	Screw terminal	Z-15GW3-B	1001	TW	MM.	100X.
	High OF	Solder terminal	Z-15GW32	Tal. CC	ZI.		- OX.CO
W	W 100 Y		Z-15GW32-B	131.100	OM:		100
Low-force hinge	lever	Solder terminal		Z-15HW24		1/1/1/1	-100Y
~11		Screw terminal	Z-15GW4-B	Z-15HW24-B	COM TOWN	WW	W. Co
Low-force wire	Low OF	Solder terminal		Z-15HW78	-0M-		W. Jan
hinge lever	11111	Screw terminal	W.	Z-15HW78-B	= MIW	1111	
	High OF	Solder terminal		Z-15HW52	E.CO.		W. A. TOOK
	TXN.	Screw terminal		Z-15HW52-B	COM.	sī.	-4/W-10
Short hinge rolle	er lever \cap	Solder terminal	Z-15GW22	Z-15HW22	Z-15EW22	Z-01HW22	1N 100 x
J -1 -	Ar	Screw terminal	Z-15GW22-B	Z-15HW22-B	Z-15EW22-B	Z-01HW22-B	41VI 100
Chart bings are		Solder terminal	Z-15GW49	73711.3	51 COM.	08.	
Short hinge cros roller lever	I I I	Screw terminal	Z-15GW49-B	M M	1007.	IN	W 10
	Standard	Solder terminal	Z-15GW2	Z-15HW2	00 X CO	WILL	WW
Hinge roller (Jianualu	Screw terminal	Z-15GW2 Z-15GW2-B	Z-15HW2-B	1100 × CO	XX	***
	Large roll-	Solder terminal	Z-15GW2-B Z-15GW25	Z-1311WZ-B	*I 1007.	MITH	
	er	Screw terminal	Z-15GW25-B	4 WW	M. Cr	TW	MW VI

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W.100Y.COM.TW

						OMROD
Actuator		Standard	High-sensitivity	High-capacity	Micro load	Extra-high- sensitivity
		G (0.5 mm)	H (0.25 mm)	E (1.8 mm)	H (0.25 mm)	H2 (0.15 mm)
Hinge cross	Solder terminal	Z-15GW54	100 F	20M.1		
roller lever	Screw terminal	Z-15GW54-B	MANATOON	TW		
Unidirectional short	Solder terminal	Z-15GW2277	WWW.	CONT.		
hinge roller lever	Screw terminal	Z-15GW2277-B	WWW.IO	N.COM.	N	
Reverse hinge lever	Solder terminal	Z-15GM	, , , , , , , , , , , , , , , , , ,	1 COM1. 2		
(see note)	Screw terminal	Z-15GM-B	1111	00	111	
Reverse short hinge	Solder terminal	Z-15GM22	1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/	-01.CO	77	
roller lever (see note)	Screw terminal	Z-15GM22-B	WWW	Inc. COM	TW	
Reverse hinge roller lever	Solder terminal	Z-15GM2		100 × CO	L. I	
(see note)	Screw terminal	Z-15GM2-B		N.100X.CC	WIN	

Note: The pin plungers of reverse-type models are continuously pressed by the actuator levers with compression coil springs and the pin plungers are freed by operating the levers. Reverse-type models are highly vibration- and shock-resistive because the pin plungers

Minimum Order Lot

The following models are available at the minimum order lot specified below. Orders must be placed per lot.

Actuator	Standard	High-sensitivity	Minimum order lot (pcs)	
	G (0.5 mm)	H (0.25 mm)	Y.CO. TW	
Short spring plunger	Z-15GD-B	Mr	10	
Panel mount plunger	Z-15GQ Z-15GQ-B Z-15GQ8-B	OMETH WWW	1.11 00X.COM.TW	
Panel mount roller plunger	Z-15GQ22 Z-15GQ22-B	CONTRA MA	W.100X.COM.TW	
Panel mount cross roller plunger	Z-15GQ21-B	in The Man	1100Y. OM.TW	
Short hinge lever	Z-15GW21-B	V.C.	W. CO. TW	
Hinge lever	Z-15GW Z-15GW-B	ON TWI	W.100Y.COM.	
Low-force hinge lever	Z-15GW4-B	Z-15HW24-B	MAN. TO COM.	
Low-force hinge wire lever	<u> </u>	Z-15HW78-B	11 CONT.	
Short hinge roller lever	Z-15GW22 Z-15GW22-B	.101 -COM.TW	TWW.100Y.COM.T	
Hinge roller lever	Z-15GW2 Z-15GW2-B	N.11 DY. COM.TW	MAN. 100X.COM.	
Reverse short hinge roller lever	Z-15GM22-B	M. COM.	W. 100 L. COM	
Reverse hinge roller lever	Z-15GM2-B		WW. 100X.Co	

Split-contact Models

Actuator	$M_{i,I}$		F (1.0 mm)	TWW.In
Pin plunger	TTV	Solder terminal	1100X.	M. 1007.
TWW.Io		Screw terminal	Z-10FY-B	WWW. CON.
Slim spring plunger	OMIT	Solder terminal	-WINTER COM.	TANN. IOU
MATTER STORY		Screw terminal	Z-10FSY-B	11002
Short spring plunger	COM.	Solder terminal	WWW. CO. CO.	WWW
		Screw terminal	Z-10FDY-B	TWW. Inc
Panel mount plunger Med	ium OP	Solder terminal	-100x- 100x	100
. 追加		Screw terminal	Z-10FQY-B	MAN

				W.100Y.COM.TW	OMRON
	Act	uator		F (1.0 mm)	
Panel mount roller	(i)	-31.7	Solder terminal	1003.0 M.IW	
plunger	Ħ		Screw terminal	Z-10FQ22Y-B	
Hinge lever		Low OP	Solder terminal	TAN W. TO COM	
			Screw terminal	Z-10FWY-B	
Short hinge roller		WAY.CO.	Solder terminal	# 11 100 X COLIN	
lever			Screw terminal	Z-10FW22Y-B	
Hinge roller lever	0	1.100	Solder terminal	COM.	
	9		Screw terminal	Z-10FW2Y-B	
Reverse short		100X.	Solder terminal	MAN W 1007.CO 211.77	
hinge roller lever	9		Screw terminal	Z-10FM22Y-B	
		4 1 1 1 1 2			

Note: The pin plungers of reverse-type models are continuously pressed by the actuator levers with compression coil springs and the pin plungers are freed by operating the levers. Reverse-type models are highly vibration- and shock-resistive because the pin plungers are normally pressed.

Maintained-contact Models

Actuator	Maintained-contact model			
Pin plunger	Z-15ER	TW WWW. ONLOW TW		
Slim spring plunger	Z-15ESR	WWW. CONTRA		
Hinge lever	Z-15EWR	TW WWW.Indy.COM.		

Basic Models (Drip-proof Models)

1001	Actuator	44	100 r. COW. I.	Basic model (drip-prod	of)
			Standa	ard	Micro load
WWW.100Y.COM.TW W		G (0.5 r	H (0.25 mm)		
			Without drip-proof terminal protective cover	With drip-proof terminal protective cover	Without drip-proof terminal protective cover
Pin plunger	A CON	Solder terminal	Z-15G55	WW WY	Z-01H55
W - 100		Screw terminal	Z-15G55-B	Z-15GA55-B5V	Z-01H55-B
Short spring plunger —		Solder terminal	Z-15GD55	£.1.1.	Z-01HD55
MAN	ON COM	Screw terminal	Z-15GD55-B	V Wr	Z-01HD55-B
Spring plunger	Medium OP	Solder terminal	Z-15GK55	M	TWW. Par COMP
<u>.</u>	1007.	Screw terminal	Z-15GK55-B	$\Delta M.TW$	W. 1001. COM
WWW	HIgh OP	Solder terminal	Z-15GK355	- TW	#W. 1007.60
	11.100	Screw terminal	Z-15GK355-B	Z-15GK3A55-B5V	TAMM. TO CO
Panel mount	Medium OP	Solder terminal	Z-15GQ55	OW.1	TN 100 -
plunger $\equiv \checkmark$	unger 😑		Z-15GQ55-B	Z-15GQA55-B5V	MM. 100 X.C.
Panel mount roller plunger		Solder terminal	Z-15GQ2255	COMP.	VIVIN.
		Screw terminal	Z-15GQ2255-B	Z-15GQ22A55-B5V	W . 100 r.
Panel mount cross		Solder terminal	N WWW	MY. C. YEL	1007
roller plunger	_ = W.70	Screw terminal	Z-15GQ2155-B	Z-15GQ21A55-B5V	M.M.W.
Leaf spring	W 10	Solder terminal	Z-15GL55	\overline{m}_{r}	VIVI 100
		Screw terminal	Z-15GL55-B	100Y.CO.	MM. 100
Roller leaf spring		Solder terminal	Z-15GL255	- COM	Of- WALLEY
_(Sy Sy	Screw terminal	Z-15GL255-B	N.100 T. COM: 1	M MMM'I
Short hinge lever		Solder terminal	Z-15GW2155	4 Jan COM.	
•		Screw terminal	Z-15GW2155-B	100Y.	Lu M.
Long hinge lever		Solder terminal	Z-15GW4455	TALL OF CO.	-4/N MM
-		Screw terminal	Z-15GW4455-B	Z-15GW44A55-B5V	V. TINY
Hinge lever	_ 1/1	Solder terminal	Z-15GW55	T. 1001.	4.14
		Screw terminal	Z-15GW55-B	Z-15GWA55-B5V	WW WIT
Short hinge	0	Solder terminal	Z-15GW2255		Z-01HW2255
roller lever		Screw terminal	Z-15GW2255-B	Z-15GW22A55-B5V	Z-01HW2255-B

	Astrotor		WWW.100X.CG	OM.TW	OMRO
	Actuator		Standa	Basic model (drip-proo	Micro load
			G (0.5 r		H (0.25 mm)
			Without drip-proof terminal protective cover	With drip-proof terminal protective cover	Without drip-proof terminal protective cove
Hinge roller lever	Parallel	Solder terminal	Z-15GW255	DY. C. MIN	
	WWW	Screw terminal	Z-15GW255-B	Z-15GW2A55-B5V	
Unidirectional sho	rt 🔾	Solder terminal	Z-15GW227755	1001. ON IN	
hinge roller lever		Screw terminal	Z-15GW227755-B	Z-15GW2277A55-B5V	
Reverse hinge leve	er 📁	Solder terminal	Z-15GM55	1007.00	N N
(see note 1)		Screw terminal	Z-15GM55-B	M. To COM.	
Reverse short hing	ge 🔾	Solder terminal	Z-15GM2255	21/100 COM	<u> </u>
roller lever (see note 1)		Screw terminal	Z-15GM2255-B	W.100Y.CO	LTW
Reverse hinge roller lever (see note 1) Flexible rod (coil spring)		Solder terminal	Z-15GM255	77. 100 X.	TT. T. Y.
		Screw terminal	Z-15GM255-B	MMM. 100X.CO	WILL
		Solder terminal	Z-15GNJ55	- C	The state of the s
(see note 2)		Screw terminal	Z-15GNJ55-B	MMM.1007.	OM:ITW

Note: 1. The pin plungers of reverse-type models are continuously pressed by the actuator levers with compression coil springs and the pin plungers are freed by operating the levers.

Actuator	W W	Standard	High-sensitivity	Minimum order lot
	(G (0.5 mm)	H (0.25 mm)	COM
Short spring plunger	Z-15GD55-B	= 1007.	W.T.A	10
Spring plunger	Z-15GK55-B	M M. C.	W. W.	TV.CO
Hinge lever	Z-15GW4455-B Z-15GW55 Z-15GW55-B	MAN TOOK	COM: WY	NA TOOX COM LA
Short hinge roller lever	Z-15GW2255 Z-15GW2255-B	W.1001	COME	M.1001.COM.
Hinge roller lever	Z-15GW255-B	72 100	CO17-	W.100 COM
Flexible rod (coil spring)	Z-15GNJ55-B	4111	D TN	M. 100 X.
Flexible rod (steel wire)	-0N		Z-15HNJS55-B	MIN. COL

Basic Models (Drip-proof High-sensitivity Models)

Actuator	Y.C.	High-sensitivity
		H (0.25 mm)
Flexible rod (steel wire)	Solder terminal	al Z-15HNJS55
, , , , , , , , ,	Screw terminal	I Z-15HNJS55-B
	* COMP	THE THE TOTAL THE THE TANK!
W.	700 r. COM.	TWW.100 COM. I

^{2.} The tip is made of resin.

Specifications

■ Approved Standards

Agency	Standard	File No.
UL	UL508	E41515
CSA	CSA C22.2 No. 55	LR21642
TÜV Rheinland	EN61058-1	R9451585

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■ Approved Standard Ratings

UL508 (File No. E41515) CSA C22.2 No.55 (File No. LR21642)

Rated voltage	Z-15	Z-10F	Z-01H
125 VAC	15 A 1/8 HP	6 A 1/10 HP	0.1 A
250 VAC	15 A 1/4 HP	6 A 1/8 HP	IIIn COM
480 VAC	15 A	6 A	1707
30 VDC	<u>l</u>		0.1 A
125 VDC	0.5 A	0.6 A	400 2
250 VDC	0.25 A	0.3 A	001.Co

TUV (EN61058-1)

Rated voltage	Z-15H□-B	Z-15G□-B	Z-01H□-B
250 VAC	15 A	15 A	
125 VAC	A) . 1	O No.	0.1 A
30 VDC	- 100 J.		0.1 A

Note: Z-15H2 Series models are not approved.

Note: Consult with OMRON about approved part numbers by standards.

■ Ratings

Z-15 (Except Micro Load and Flexible Rod Models)

Iter	n		Non-inductive load				Inductive load			
	ON.CO	Resistive load		La	mp load	Inductive load		Motor load		
Model	Rated voltage	NC	NO	NC	NO	NC	NO	NC	NO	
G, H, E	125 VAC 250 VAC 500 VAC	15 (10) A (se 15 (10) A (se 10 A		3 A 2.5 A 1.5 A	1.5 A 1.25 A 0.75 A	15 (10) A (se 15 (10) A (se 6 A		5 A 3 A 1.5 A	2.5 A 1.5 A 0.75 A	
G WW	8 VDC 14 VDC 30 VDC 125 VDC 250 VDC	15 A 15 A 6 A 0.5 A 0.25 A	M	3 A 3 A 3 A 0.5 A 0.25 A	1.5 A 1.5 A 1.5 A 0.5 A 0.25 A	15 A 10 A 5 A 0.05 A 0.03 A	WW	5 A 5 A 5 A 0.05 A 0.03 A	2.5 A 2.5 A 2.5 A 0.05 A 0.03 A	
H W	8 VDC 14 VDC 30 VDC 125 VDC 250 VDC	15 A 15 A 2 A 0.4 A 0.2 A	N	3 A 3 A 2 A 0.4 A 0.2 A	1.5 A 1.5 A 1.4 A 0.4 A 0.2 A	15 A 10 A 1 A 0.03 A 0.02 A	V	5 A 5 A 1 A 0.03 A 0.02 A	2.5 A 2.5 A 1 A 0.03 A 0.02 A	
E	8 VDC 14 VDC 30 VDC 125 VDC 250 VDC	15 A 15 A 15 A 0.75 A 0.3 A	TW	3 A 3 A 3 A 0.75 A 0.3 A	1.5 A 1.5 A 1.5 A 0.75 A 0.3 A	15 A 15 A 10 A 0.4 A 0.2 A	N	5 A 5 A 5 A 0.4 A 0.2 A	2.5 A 2.5 A 2.5 A 0.4 A 0.2 A	

Note: Figures in parentheses are for the Z-15HW52 and Z-15HW78(-B) models, the AC ratings of these models are 125 and 250 V only.

Z-15 (Flexible Rod Models)

Rated voltage	VIVI	Non-in	ductive load	XX	- TIW W.	Indu	ctive load	V
	Resist	ive load	Lar	np load	Inductiv	ve load	Mo	tor load
	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC 250 VAC	15 A	111.100	2 A 1 A	1 A 0.5 A	7 A 5 A	100	2.5 A 1.5 A	2 A 1 A
8 VDC 14 VDC 30 VDC 125 VDC 250 VDC	15 A 15 A 2 A 0.4 A 0.2 A	WW.I	2 A 2 A 2 A 0.4 A 0.2 A	1 A 1 A 1 A 0.4 A 0.2 A	7 A 7 A 1 A 0.03 A 0.02 A	N.Y.100	3 A 3 A 1 A 0.03 A 0.02 A	1.5 A 1.5 A 0.5 A 0.03 A 0.02 A

Z-15H2

Rated voltage		Non-in	ductive load		11/1/100	Indu	ctive load	
	Resisti	ive load	La	mp load	Induct	tive load	Mo	tor load
-<1	NC	NO	NC	NO	NC	NO	NC	NC
125 VAC 250 VAC	10 A	CO	3 A 2.5 A	1.5 A 1.25 A	10 A	N.CON	5 A 3 A	2.5 A 1.5 A
8 VDC 14 VDC 30 VDC 125 VDC 250 VDC	15 A 15 A 2 A 0.4 A 0.2 A	100X.C	3 A 3 A 2 A 0.4 A 0.2 A	1.5 A 1.5 A 1.4 A 0.4 A 0.2 A	15 A 10 A 1 A 0.03 A 0.02 A	100X.CO	5 A 5 A 1 A 0.03 A 0.02 A	2.5 A 2.5 A 1 A 0.03 A 0.02 A

Z-01H

Rated voltage	NC	ve load NO
125 VAC	0.1 A	MN.
8 VDC 14 VDC 30 VDC	0.1 A 0.1 A 0.1 A	WW.
Z-10F		

Z-10F

8 VDC 14 VDC 30 VDC	0.1 A 0.1 A 0.1 A	VV.100								
<u>Z-10F</u>										
Model Rated voltage		WIN W.	Non-inc	luctive load		Inductive load				
	001.		Resistive load		Lamp load		Inductive load		Motor load	
	WTI	NC	NO	NC	NO	NC	NO	NC	NO	
Series connection	125 VAC 250 VAC	10 A 10 A	x 100Y	4 A 2.5 A	2 A 1.5 A	6 A	V.100Y.	5 A 3 A	2.5 A 1.5 A	
	30 VDC 125 VDC 250 VDC	10 A 1 A 0.6 A	N.100	4 A 1 A 0.6 A	2 A 1 A 0.6 A	6 A 0.1 A 0.05 A	W.100X	6 A 0.1 A 0.05 A	3 A 0.1 A 0.05 A	
Parallel connection	125 VAC 250 VAC	6 A 6 A	WW.I	3 A 2.5 A	1.5 A 1.25 A	4 A 4 A	N W. 10	4 A 2 A	2 A 1 A	
	30 VDC 125 VDC 250 VDC	6 A 0.6 A 0.3 A	MMM.	4 A 0.6 A 0.3 A	2 A 0.6 A 0.3 A	4 A 0.1 A 0.05 A	MMM.	6 A 0.1 A 0.05 A	3 A 0.1 A 0.05 A	

Note: 1. The above current ratings are the values of the steady-state current.

- 2. Inductive load has a power factor of 0.4 min. (AC) and a time constant of 7 ms max. (DC).

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... Worder load has an inrush current of 6 times the steady-state current.

5. The normally closed and normally open ratings of reverse hinge lever models are opposite to each other.

6. The AC ratings of molded terminals are 125 and 250 V only.

7. The ratings values apply under the following test are applicable to the control of the WWW.100Y.COM.TW

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Ambient temperature: 20±2°C Ambient humidity: 65±5%

Operating frequency: 20 operations/min

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■ Characteristics

Item WW	Basic (except micro load and flexible rod)/ maintained contact Z-15	Basic (micro load) Z-01H	Basic (flexible roc Z-15	d) COM.TV	N N	olit-contact Z-10F
Operating speed (see note)	0.01 mm to 1 m/s (se	e note 1)	1 mm to 1 m/s	Y.COM.	0.1 mm to 1 i	m/s (see note 1)
Operating frequency	Mechanical: 240 ope	erations/min erations/min	Mechanical: 120 opera		Mechanical: Electrical:	240 operations/min 20 operations/min
Insulation resistance	100 M Ω min. (at 500	VDC)	MM	MY.Co	WTI	
Contact resistance	15 mΩ max. (initial value)	50 m Ω max. (initial value)	15 mΩ max. (initial valu	ue)	25 mΩ max.	(initial value)
Dielectric strength	Contact gap H, H2: 6 f Contact gap E: Between current-carr and ground, and betw and non-current-carr 2,000 VAC, 50/60 Hz	1,000 VAC, 50/60 Hz for 1 min 600 VAC, 50/60 Hz for 1 min 1,500 VAC, 50/60 Hz for 1 min rying metal parts ween each terminal rying metal parts z for 1 min	Contact gap H: 600 VA 60 Hz 1 Between current-carrying parts and ground, and each terminal and non-rying metal parts 2,000 VAC, 50/60 Hz for	VAC, 50/ for 1 min AC, 50/ for 1 min ring metal between -current-car- for 1 min	Contact gap Between curreparts and groeach termina rying metal p	ntacts of same polarity F: 1,500 VAC, 50/ 60 Hz for 1 min rent-carrying metal bund, and between al and non-current-car- barts 50/60 Hz for 1 min
Vibration resistance	Malfunction: 10 to 55 ble amplitude (see no		Malfunction: 10 to 20 H double amplitude (see			10 to 55 Hz, 1.5-mm itude (see note 5)
Shock resistance	Destruction: 1,000 n Malfunction: 300 m/s (see no		Destruction: 1,000 m/s Malfunction: 50 m/s² n (see note	max.	4	1,000 m/s ² max. 300 m/s ² max. (see note 3, 5)
Durability	Mechanical: Contact gap G, H, H2 Contact gap E: Electrical: Contact gap G, H, H2 Contact gap E:	erations min. (see note 4) 300,000 operations 2: 500,000 operations min. 100,000 operations min.	Mechanical: 1,000,000 tions min Electrical: 100,000 min.	n	Mechanical: Electrical:	500,000 operations min. (see note 1) 100,000 operations min.
Degree of protection	THE THE TANK	00 quivalent to IP62	M.Jon.	TW	WW	W.Igo. COM
Degree of protection against electric shock	Class I	W W	NAY TOOX COM	LTW.	WV	TW.100Y.COM
Proof tracking index (PTI)	175	LM M	WW. 100Y.CO.	M.TW	W	W.100Y.C
Switch category	D (IEC335-1)	TW Y	MM	TW		1007.0
Ambient temperature	Operating: General-purpose: -2 Drip-proof: -1	25°C to 80°C (with n 15°C to 80°C (with n		COM.TV	V	WWW.100Y.
Ambient humidity	Operating: General-purpose: 35 Drip-proof: 35	5% to 85% 5% to 95%	MMM.100	I COM:	TW	WWW.100
Weight	Approx. 22 to 58 g	TW	Approx. 42 to 48 g	24.	Approx. 34 to	o 61 g

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 - 3. The values are for the Z-10FY-B.
 - 4. The values are for the pin plunger. The durability for models other than the pin plunger is 10,000,000 min.
 - 5. Malfunction: 1 ms max.

■ Contacts Specification

	Item	Z-15	Z-01H	Z-10F
Contacts	Shape	Rivet	Single crossbar	Rivet
	Material	Silver alloy	Gold alloy	Silver alloy
Inrush current	NC NC	30 A max.	0.1 A max.	40 A max.
	NO	15 A max.	0.1 A max.	20 A max.

■ Contact Form

Basic Models

General-purpose

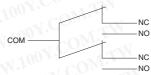
Contact Form (SPDT)



Note: The Z-15GM is a reversible model and the NO and NC positions are reversed.

Split-contact Models

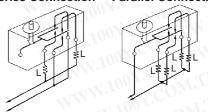
Contact Form (Split-contact)



Note: The NO and NC terminal arrangement is reversed for Models with reverse operation (Z-10FM).

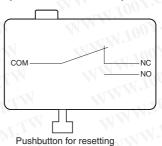
Connection Example

Series Connection Parallel Connection



Maintained-contact Models

Contact Form (Maintained-contact)



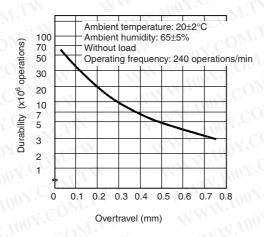
勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

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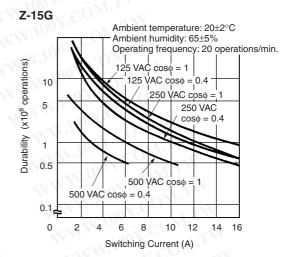
Engineering Data

■ Mechanical Durability

Z-15G



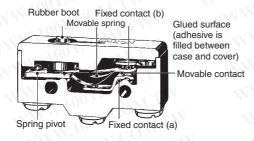
■ Electrical Durability



Nomenclature

■ Drip-proof Construction

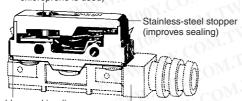
Without Terminal Protective Cover



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With Terminal Protective Cover

Rubber boot (weather-resistive chloroprene is used)



Rubber packing (improves sealing between switch housing and terminal cover)

Terminal protective covers are sold separately for maintenance purposes, which can be, however, used with the Z-□-B5V models only.

Dimensions

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Note: 1. Unless otherwise indicated, all units are in millimeters.

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

■ Dimensions and Operating Characteristics

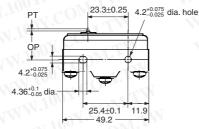
Basic Models (General-purpose) & Split-contact Models

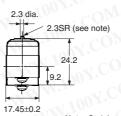
The models, illustrations, and graphics are for screw-terminal models (-B). The "-A" at the end of the model number for solder terminal models has been omitted. For details of the terminals, refer to *Terminals* on page 59.

Pin Plunger

Z-15G-B, Z-15E-B Z-15H-B, Z-15H2-B Z-01H-B, Z-10FY-B







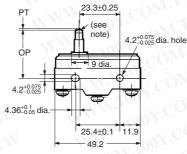
Note: Stainless-steel plunger

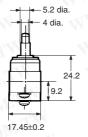
Z-15G-B	Z-15H-B	Z-15H2-B	Z-15E-B	Z-01H-B	Z-10FY-B
2.45 to 3.43 N	1.96 to 2.75 N	1.96 to 2.5 N	6.12 to 7.85 N	2.45 N max.	4.46 to 7.26 N
1.12 N	1.12 N	1.12 N	1.12 N	0.78 N	1.12 N
0.4 mm	0.3 mm	0.3 mm	0.8 mm	0.5 mm	0.8 mm
0.13 mm	0.13 mm	0.1 mm	0.13 mm	0.13 mm	0.13 mm
0.05 mm	0.025 mm	0.005 to 0.008 mm	0.13 mm	0.04 mm	0.1 mm
15.9±0.4 mm	MAN	T	4/	11007.	-71.77
	2.45 to 3.43 N 1.12 N 0.4 mm 0.13 mm 0.05 mm	2.45 to 3.43 N	2.45 to 3.43 N 1.96 to 2.75 N 1.96 to 2.5 N 1.12 N 1.12 N 1.12 N 0.4 mm 0.3 mm 0.3 mm 0.13 mm 0.13 mm 0.1 mm 0.05 mm 0.005 to 0.008 mm	2.45 to 3.43 N 1.96 to 2.75 N 1.96 to 2.5 N 6.12 to 7.85 N 1.12 N 1.12 N 1.12 N 1.12 N 0.4 mm 0.3 mm 0.3 mm 0.8 mm 0.13 mm 0.1 mm 0.13 mm 0.13 mm 0.05 mm 0.005 to 0.008 mm 0.13 mm	2.45 to 3.43 N 1.96 to 2.75 N 1.96 to 2.5 N 6.12 to 7.85 N 2.45 N max. 1.12 N 1.12 N 1.12 N 0.78 N 0.4 mm 0.3 mm 0.3 mm 0.8 mm 0.5 mm 0.13 mm 0.13 mm 0.1 mm 0.13 mm 0.13 mm 0.05 mm 0.025 mm 0.005 to 0.008 mm 0.13 mm 0.04 mm

Slim Spring Plunger

Z-15GS-B, Z-15HS-B, Z-01HS-B, Z-10FSY-B







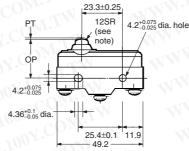
Note: Stainless-steel plunger (flat, 1R chamfered)

Car	Z-15GS-B	Z-15HS-B	Z-01HS	Z-10FSY-B
OF O	2.45 to 3.43 N	1.96 to 2.79 N	2.45 N max.	4.46 to 7.26 N
RF min.	1.12 N	1.12 N	0.78 N	1.12 N
PT max.	0.4 mm	0.3 mm	0.5 mm	0.8 mm
OT min.	1.6 mm	1.6 mm	1.6 mm	1.6 mm
MD max.	0.05 mm	0.025 mm	0.05 mm	0.1 mm
OP	28.2±0.5 mm	NAME OF THE PARTY	TW	M 4. 100 X.

Short Spring Plunger

Z-15GD-B, Z-01HD-B Z-15HD-B, Z-10FDY-B Z-15ED-B







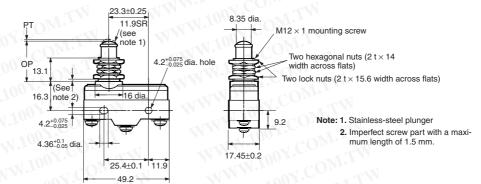
Note: Plated iron plunger

	Z-15GD-B	Z-15HD-B	Z-15ED-B	Z-01HD-B	Z-10FDY-B
OF RF min.	2.45 to 3.43 N 1.12 N	1.96 to 2.79 N 1.12 N	6.13 to 7.85 N 1.12 N	2.45 N max. 0.78 N	4.46 to 7.26 N 1.12 N
PT max.	0.4 mm	0.3 mm	0.8 mm	0.7 mm	0.8 mm
OT min.	1.6 mm	1.6 mm	1.6 mm	1.6 mm	1.6 mm
MD max.	0.05 mm	0.025 mm	0.13 mm	0.05 mm	0.1 mm
OP	21.5±0.5 mm	311001.	61.7	100	V. 7

Panel Mount Plunger

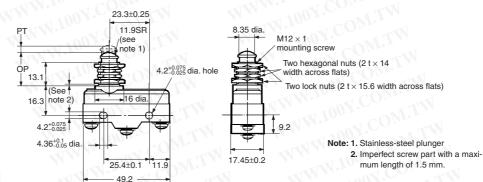
Z-15GQ-B, Z-01HQ-B Z-15HQ-B, Z-10FQY-B **Z-15EQ-B**





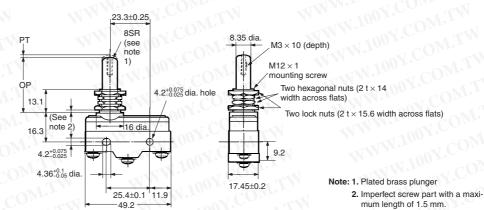
Z-15GQ3-B





Z-15GQ8-B





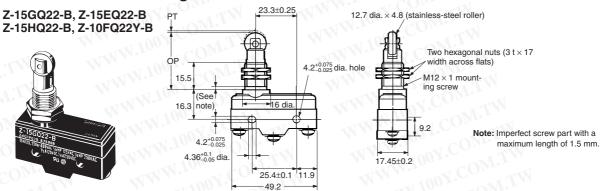
	XIX	
/-B	Z-15GQ3-B	Z-15GQ8-B
6 N	2.45 to 3.43 N	2.45 to 3.43 N
	1.12 N	1.12 N
	4.2 mm	0.5 mm
	2.5 mm	5.5 mm

	Z-15GQ-B	Z-15HQ-B	Z-15EQ-B	Z-01HQ-B	Z-10FQY-B	Z-15GQ3-B	Z-15GQ8-B
OF	2.45 to 3.43 N	1.96 to 2.79 N	6.13 to 7.85 N	2.45 N max.	4.46 to 7.26 N	2.45 to 3.43 N	2.45 to 3.43 N
RF min.	1.12 N	1.12 N	1.12 N	0.78 N	1.12 N	1.12 N	1.12 N
PT max.	0.4 mm	0.3 mm	0.8 mm	0.5 mm	0.8 mm	4.2 mm	0.5 mm
OT min.	5.5 mm	5.5 mm	5.5 mm	5.5 mm	5.5 mm	2.5 mm	5.5 mm
MD max.	0.05 mm	0.025 mm	0.13 mm	0.05 mm	0.1 mm	2.2 mm	0.05 mm
OP	21.8±0.8 mm	· LO	TVN	WW.	ON COM	18.8±0.8 mm	32.5±1 mm

Note: 1. Do not use the M12 mounting screw and the case mounting hole at the same time, or excessive pulling force will be imposed on the Switch and the case and cover may be damaged.

- 2. On the model Z-15GQ3-B, PT can be set to a value larger than that for the Z-15GQ.
- 3. On the model Z-15GQ8-B, operating position can be adjusted by providing a screw in the plunger section. The M3 hole with a depth of 10 mm is a through hole. Take precautions so that no water or screw lock agent penetrates into the hole.

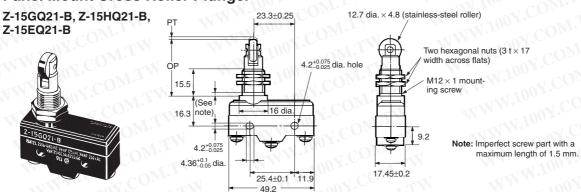
Panel Mount Roller Plunger



MAG	Z-15GQ22-B	Z-15HQ22-B	Z-15EQ22-B	Z-10FQ22Y-B
OF	2.45 to 3.43 N	1.96 to 2.79 N	6.13 to 7.85 N	4.46 to 7.26 N
RF min.	1.12 N	1.12 N	1.12 N	1.12 N
PT max.	0.4 mm	0.3 mm	0.8 mm	1 mm
OT min.	3.58 mm	3.58 mm	3.58 mm	3.55 mm
MD max.	0.05 mm	0.025 mm	0.13 mm	0.1 mm
OP 🕥	33.4±1.2 mm	WTS	MM	WILL

Note: Do not use the M12 mounting screw and the case mounting hole at the same time, or the case may be damaged.

Panel Mount Cross Roller Plunger

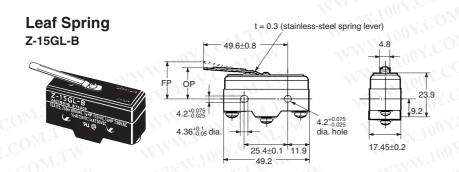


W	Z-15GQ21-B	Z-15HQ21-B	Z-15EQ21-B
OF	2.45 to 3.43 N	1.96 to 2.79 N	6.13 to 7.85 N
RF min.	1.12 N	1.12 N	1.12 N
PT max.	0.4 mm	0.3 mm	0.8 mm
OT min.	3.58 mm	3.58 mm	3.58 mm
MD max.	0.05 mm	0.025 mm	0.13 mm
OP	33.4±1.2 mm	Oh	WWW. OUT.

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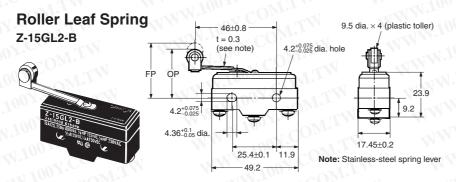
Note: Do not use the M12 mounting screw and the case mounting hole at the same time, or the case may be damaged.

WWW.100Y.COM.TW



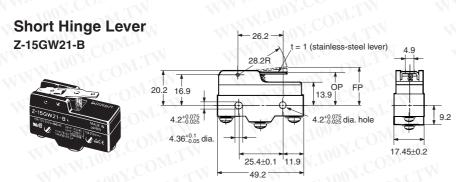
1	OF max.	1.38 N
	RF min.	0.14 N
	OT min.	1.6 mm (see note)
	MD max.	1.3 mm
э	FP max.	20.6 mm
1	OP	17.4±0.8 mm

Note: When operating, be sure not to exceed 1.6 mm.



OF max.	1.38 N
RF min.	0.14 N
OT min.	1.6 mm (see note)
MD max.	1.3 mm
FP max.	31.8 mm
OP	28.6±0.8 mm

Note: When operating, be sure not to exceed 1.6 mm.



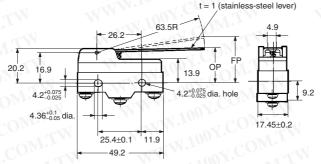
1110 =	~ / / /
OF max.	1.57 N
RF min.	0.27 N
OT min.	2 mm
MD max.	1 mm
FP max.	24.8 mm
OP	19±0.8 mm

Hinge Lever Z-15GW-B, Z-150

Z-15GW-B, Z-15GW32-B Z-15HW-B, Z-10FWY-B

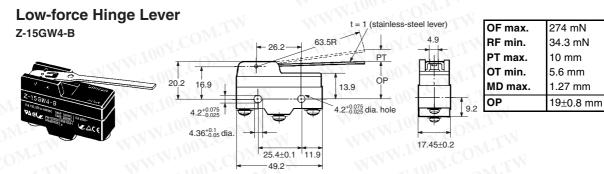
Z-15GW3-B (Lever Length: 56R) (see note)

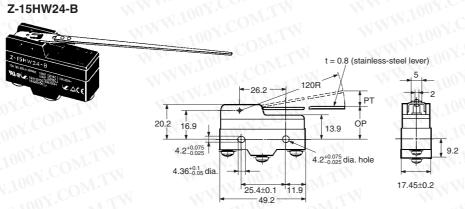




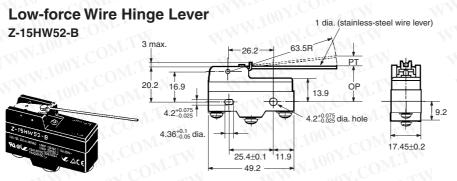
Note: The external dimensions of the actuator vary.

	Z-15GW-B	Z-15HW-B	Z-15GW32-B	Z-10FWY-B	Z-15GW3-B
OF max.	0.69 N	0.66 N	1.47 to 1.96 N	0.88 N	0.78 N
RF min.	0.14 N	0.14 N	0.92 N	0.14 N	0.15 N
OT min.	5.6 mm	5.6 mm	5.6 mm	5.6 mm	4.8 mm
MD max.	1.27 mm	0.63 mm	1.27 mm	2.4 mm	1.12 mm
FP max.	28.2 mm	27.4 mm	28.2 mm	29.8 mm	27.2 mm
OP	19±0.8 mm	MAIN TO COM	TI STY	M. T. COH	Win In





	_
OF max.	58.8 mN
RF min.	4.90 mN
PT max.	19.8 mm
OT min.	10 mm
MD max.	2 mm
OP	19.8±1.6 mm



OF max.	58.8 mN
RF min.	4.90 mN
PT max.	8.3 mm
OT min.	5.6 mm
MD max.	0.65 mm
OP	19±1 mm

	OON.COM.TA		
7-151	Jun COM	1 dia. (stain	ess-steel wire lever)
TOPHW 76-B THE SECONDARY CONTROL OF THE SECON	3 max.	-26.2 110R	ON COM.
	W 10	PT	
	20.2 16.9	13.9 OP	N.700 OW
	4.2+0.075	4.2 ^{+0.075} _{-0.025} dia. ho	9.2
	4.36 ^{+0.1} _{-0.05} dia. →	- 1125 014111	•
	MAMA CO	25.4±0.1 11.9	17.45±0.2
	WW.Ing	- 49.2 	

Z-15HW78-B

OF max.	39.2 mN
RF min.	2.94 mN
PT max.	10 mm
OT min.	6 mm
MD max.	3 mm
OP <	20±1 mm
OP	20±1 mm

Short Hinge Roller Lever

Z-15GW22-B, Z-01HW22-B

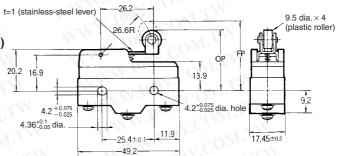
Z-15HW22-B, Z-10FW22Y-B (see note)

Z-15EW22-B, Z-15GW2-B

Z-15HW2-B (see note), Z-10FW2Y-B (see note)

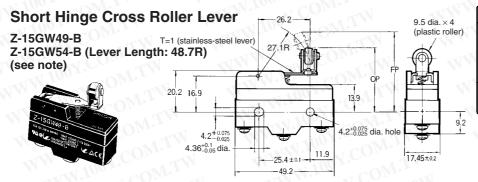
(Lever Length: 48.5R) (see note)





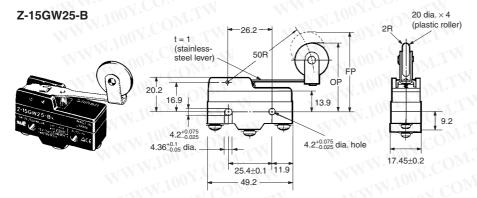
Note: The external dimensions of the actuator vary.

COM	Z-15GW22-B	Z-15HW22-B	Z-15EW22-B	Z-01HW22-B	Z-10FW22Y-B	Z-15GW2-B	Z-15HW2-B	Z-10FW2Y-B
OF max.	1.57 N	1.47 N	1.94 N	1.57 N	2.45 N	0.98 N	0.84 N	1.27 N
RF min.	0.41 N	0.41 N	0.41 N	0.27 N	0.34 N	0.22 N	0.22 N	0.22 N
OT min.	2.4 mm	2.4 mm	2.4 mm	2.4 mm	2.4 mm	4 mm	4 mm	4 mm
MD max.	0.5 mm	0.45 mm	1.3 mm	0.5 mm	1 mm	1.02 mm	0.6 mm	2 mm
FP max. OP	32.5 mm 30.2±0.4 mm	WW	35.1 mm 30.2±0.4 mm	32.5 mm 30.2±0.4 mm	34.8 mm 30.2±0.4 mm	36.5 mm 30.2±0.8 mm	CONT	37.4 mm 30.2±0.8 mm



Model	Z-15GW49-B Z-15GW5		
OF max.	1.67 N	0.98 N	
RF min.	0.41 N	0.22 N	
OT min.	2.4 mm	4 mm	
MD max.	0.51 mm	1 mm	
FP max.	33.3 mm	37.3 mm	
OP	31±0.4 mm	31±0.8 mm	

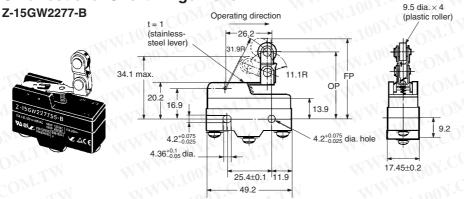
Note: The external dimensions of the actuator vary.



OF max.	0.98 N		
RF min.	0.21 N		
OT min.	4 mm		
MD max.	1.6 mm		
FP max.	47.5 mm		
OP	41.2±0.8 mm		

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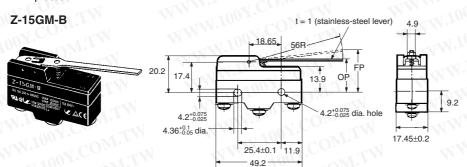
Unidirectional Short Hinge Roller Lever



	OF max.	1.67 N
Q	RF min.	0.41 N
	OT min.	2.4 mm
	MD max.	0.51 mm
	FP max.	43.6 mm
3	OP	41.3±0.8 mm

Reverse Hinge Lever

Note: The pin plungers of reverse-type models are continuously pressed by the actuator levers with compression coil springs and the pin plungers are freed by operating the levers. Reverse-type models are highly vibration- and shock-resistive because the pin plungers are normally pressed.



OF max.	1.67 N
RF min.	0.27 N
OT min.	5.6 mm
MD max.	0.89 mm
FP max.	23.8 mm
OP	19±0.8 mm

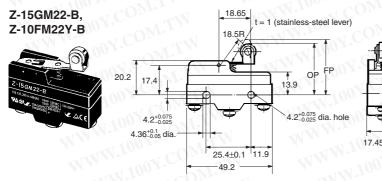
Reverse Short Hinge Roller Lever

Note: The pin plungers of reverse-type models are continuously pressed by the actuator levers with compression coil springs and the pin plungers are freed by operating the levers. Reverse-type models are highly vibration- and shock-resistive because the pin plungers are normally pressed.

9.5 dia. × 4

92

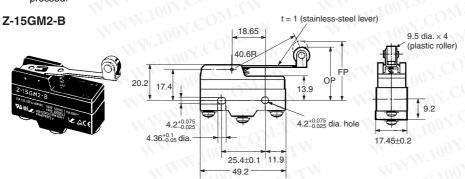
(plastic roller)



Model	Z-15GM22-B	Z-10FM22Y-B
OF max.	5.28 N	6.37 N
RF min.	1.67 N	1.67 N
OT min.	2 mm	2 mm
MD max.	0.28 mm	0.56 mm
FP max.	31.8 mm	33 mm
OP	29.4±0.4	29.4±0.4 mm
	mm	U. COM

Reverse Hinge Roller Lever

Note: The pin plungers of reverse-type models are continuously pressed by the actuator levers with compression coil springs and the pin plungers are freed by operating the levers. Reverse-type models are highly vibration- and shock-resistive because the pin plungers are normally pressed.



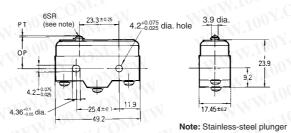
OF max.	2.35 N
RF min.	0.55 N
OT min.	4 mm
MD max.	0.64 mm
FP max.	35 mm
OP	30.2±0.8 mm
	RF min. OT min. MD max. FP max.

Basic Models (Drip-proof) without Terminal Protective Cover

Pin Plunger

Z-15G55-B Z-01H55-B



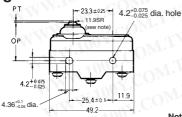


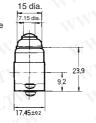
Model	Z-15G55-B	Z-01H55-B
OF	2.45 to 4.22 N	3.43 N max.
RF min.	1.12 N	0.78 N
PT max.	2.2 mm	2.2 mm
OT min.	0.13 mm	0.13 mm
MD max.	0.06 mm	0.06 mm
OP 15.9±0.4 mm		

Short Spring Plunger

Z-15GD55-B Z-01HD55-B





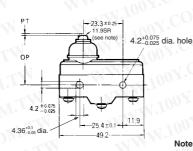


Note: Stainless-steel plunger

Model	Z-15GD55-B	Z-01HD55-B
OF max.	5.30 N	3.63 N
RF min.	1.12 N	0.78 N
PT max.	1.8 mm	1.9 mm
OT min.	1.6 mm	1.6 mm
MD max.	0.06 mm	0.06 mm
OP	21.5±0.5 mm	•

Spring Plunger Z-15GK55-B





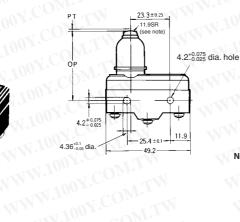


Note: Stainless-steel plunger

OF max.	5.30 N
RF min.	1.12 N
PT max.	2.3 mm
OT min.	1.6 mm
MD max.	0.06 mm
OP	28.2±0.5 mm

Z-15GK355-B





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Note: Stainless-steel plunger

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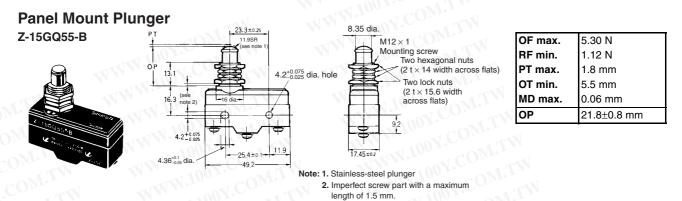
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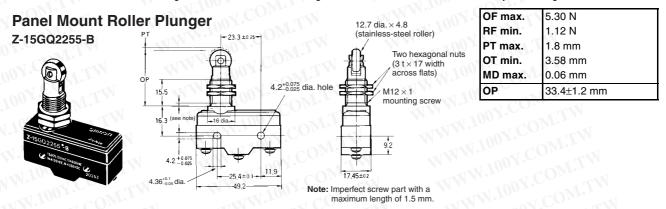
OF max.	5.30 N
RF min.	1.12 N
PT max.	2.4 mm
OT min.	3.5 mm
MD max.	0.06 mm
OP	37.8±1.2 mm

特力材料886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787

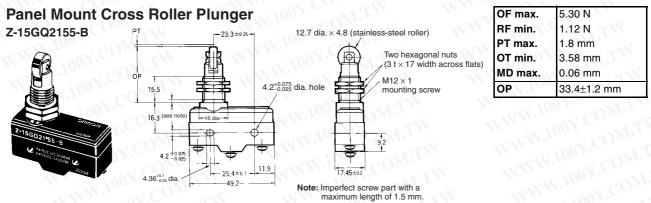
Http://www. 100y. com. tw



Note: Do not use the M12 mounting screw and the case mounting hole at the same time, or the case may be damaged.



Note: Do not use the M12 mounting screw and the case mounting hole at the same time, or the case may be damaged.

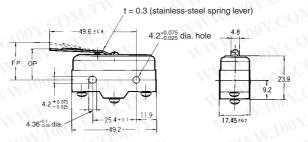


Note: Do not use the M12 mounting screw and the case mounting hole at the same time, or the case may be damaged.

OMRON

Leaf Spring Z-15GL55-B



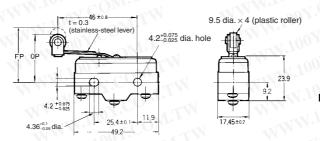


1	OF max.	1.96 N
	RF min.	0.14 N
	OT min.	1.6 mm
Į	MD max.	1.3 mm
0	FP max.	20.6 mm
1	OP	17.5±0.8 mm

Note: When operating, be sure not to exceed 1.6 mm.

Rol	ler	Leaf	Spr	ing
7 15	CLO	EE D		



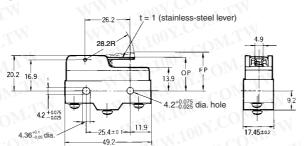


4	OF max.	1.96 N
1	RF min.	0.14 N
ı	OT min.	1.6 mm
1	MD max.	1.3 mm
	FP max.	31.8 mm
ı	OP	28.6±0.8 mm

Note: When operating, be sure not to exceed 1.6 mm.

Short Hinge Lever

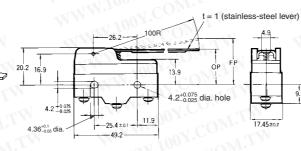




1.86 N
0.27 N
2 mm
1 mm
25 mm
19±0.8 mm

Long Hinge Lever

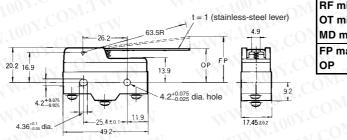




OF max.	0.88 N
RF min.	0.14 N
OT min.	5.6 mm
MD max.	3.5 mm
FP max.	33 mm
OP.	19±1.2 mm

Hinge Lever Z-15GW55-B





OF max.	0.98 N
RF min.	0.14 N
OT min.	5.6 mm
MD max.	2 mm
FP max.	28.2 mm
OP	19±0.8 mm

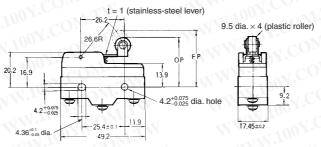
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Short Hinge Roller Lever



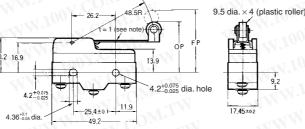




Model	Z-15GW2255-B	Z-01HW2255-B
OF max.	1.96 N	1.96 N
RF min.	0.41 N	0.27 N
OT min.	2.4 mm	2.4 mm
MD max.	0.8 mm	0.8 mm
FP max.	32.9 mm	
OP	30.2±0.4 mm	



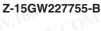




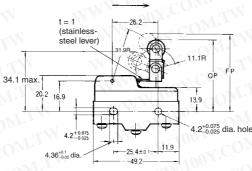
OF max.	1.27 N
RF min.	0.21 N
OT min.	4 mm
MD max.	1.6 mm
FP max.	36.5 mm
OP O	30.2±0.8 mm

Note: Stainless-steel lever

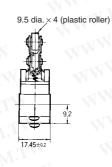
Unidirectional Short Hinge Roller Lever







Operating direction



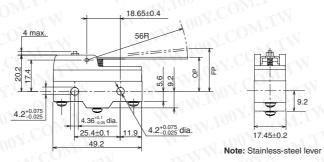
	2.70
OF max.	1.77 N
RF min.	0.49 N
OT min.	2.4 mm
MD max.	0.8 mm
FP max.	43.6 mm
OP	41.3±0.8 mm

Reverse Hinge Lever

Note: The pin plungers of reverse-type models are continuously pressed by the actuator levers with compression coil springs and the pin plungers are freed by operating the levers. Reverse-type models are highly vibration- and shock-resistive because the pin plungers are normally pressed.

Z-15GM55-B





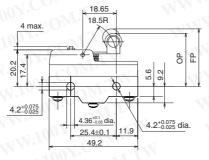
OF max.	1.96 N
RF min.	0.27 N
OT min.	5.6 mm
MD max.	0.89 mm
FP max.	23.8 mm
OP 🕥	19±0.8 mm

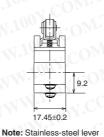
Reverse Short Hinge Roller Lever

Note: The pin plungers of reverse-type models are continuously pressed by the actuator levers with compression coil springs and the pin plungers are freed by operating the levers. Reverse-type models are highly vibration- and shock-resistive because the pin plungers are normally pressed.

Z-15GM2255-B







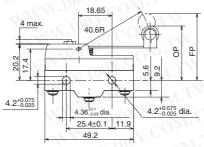
OF max.	5.69 N
RF min.	1.67 N
OT min.	2 mm
MD max.	0.28 mm
FP max.	31.8 mm
OP	29.4±0.4 mm

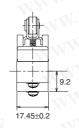
Reverse Hinge Roller Lever

Note: The pin plungers of reverse-type models are continuously pressed by the actuator levers with compression coil springs and the pin plungers are freed by operating the levers. Reverse-type models are highly vibration- and shock-resistive because the pin plungers are normally pressed.

Z-15GM255-B



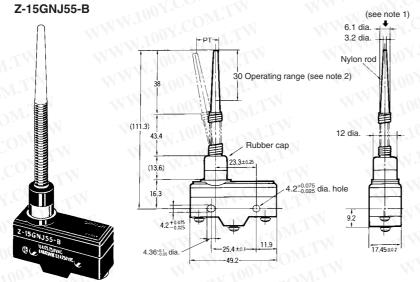




Note: Stainless-steel lever

OF max.	2.65 N
RF min.	0.55 N
OT min.	4 mm
MD max.	0.64 mm
FP max.	35 mm
OP CO	30.2±0.8 mm

Flexible Rod (Coil Spring)

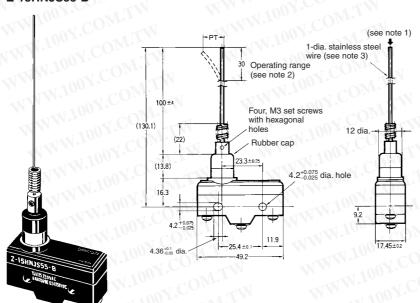


OF max.	0.49 N
PT max.	(20 mm)
ОТ	42 to 60 mm

Note: 1. Operation is possible in any direction other than the axial direction (indicated by the arrow \downarrow).

2. Use only the area within the top 30 mm of the rod as the operating part. (Do not use the area that falls within 80 mm from the mounting hole as the operating part. Using this area may cause damage to the nylon rod.

Flexible Rod (Steel Wire) Z-15HNJS55-B



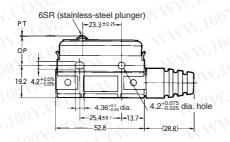
OF max. 0.15 N PT max. (25 mm)

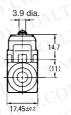
- **Note: 1.** Operation is possible in any direction other than the axial direction (indicated by the arrow \downarrow).
 - 2. Use only the area within the top 30 mm of the rod as the operating part. (Do not use the area that falls within 100 mm from the mounting hole as the operating part. Using this area may cause damage to the steel wire.)
 - 3. The steel wire can be replaced if damaged. (Model: Lever for HNJS55)

Basic Models (Drip-proof) with Terminal Protective Cover

Pin Plunger Z-15GA55-B5V



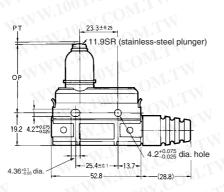


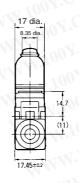


,	OF max.	2.45 to 4.22 N
	RF min.	1.12 N
(PT max.	2.2 mm
ŀ	OT min.	0.13 mm
	MD max.	0.06 mm
	OP	15.9±0.4 mm

Z-15GK3A55-B5V



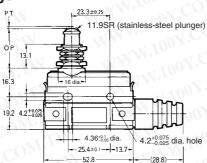


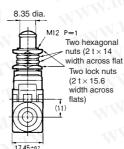


OF	max.	5.30 N
RF	min.	1.12 N
PT	max.	2.4 mm
ОТ	min.	3.5 mm
ME	max.	0.06 mm
OP	0_{Mr}	37.8±1.2 mm

Panel Mount Plunger





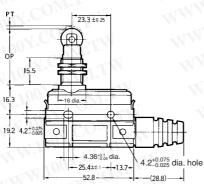


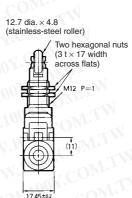
OF max.	5.30 N
RF min.	1.12 N
PT max.	1.8 mm
OT min.	5.5 mm
MD max.	0.06 mm
OP.	21.8±0.8 mm

Note: Do not use the M12 mounting screw and the case mounting hole at the same time, or the case may be damaged.

Panel Mount Roller Plunger



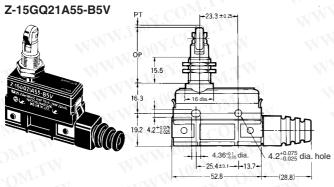


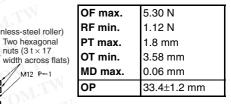


1 211	10 2
OF max.	5.30 N
RF min.	1.12 N
PT max.	1.8 mm
OT min.	3.58 mm
MD max.	0.06 mm
OP (33.4±1.2 mm

Note: Do not use the M12 mounting screw and the case mounting hole at the same time, or the case may be damaged.

Panel Mount Cross-roller Plunger

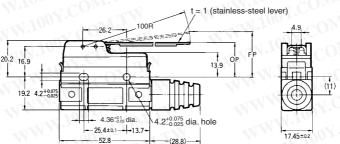




Note: Do not use the M12 mounting screw and the case mounting hole at the same time, or the case may be damaged.



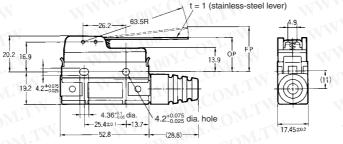




	OF max.	0.88 N
(RF min.	0.14 N
	OT min.	5.6 mm
	MD max.	3.5 mm
	FP max.	33 mm
J	OP	19±1.2 mm

Hinge Lever Z-15GWA55-B5V



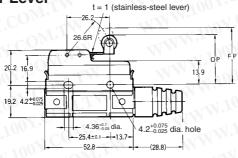


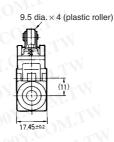
OF max.	0.98 N
RF min.	0.14 N
OT min.	5.6 mm
MD max.	2 mm
FP max.	28.2 mm
OP O	19±0.8 mm

Short Hinge Roller Lever







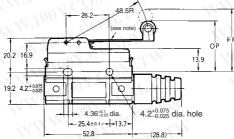


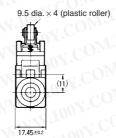
OF max.	1.96 N
RF min.	0.41 N
OT min.	2.4 mm
MD max.	0.8 mm
FP max.	32.9 mm
OP	30.2±0.4 mm

Hinge Roller Lever





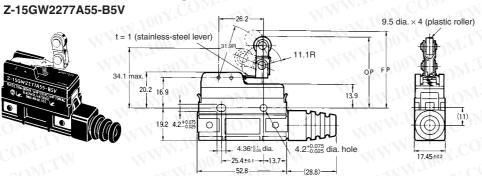




1.27 N
0.21 N
4 mm
1.6 mm
36.5 mm
30.2±0.8 mm

Note: t = 1 (stainless-steel lever)

Unidirectional Short Hinge Roller Lever

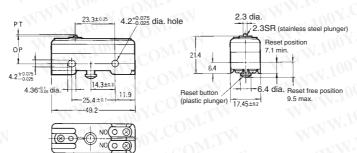


	-
OF max.	1.77 N
RF min.	0.49 N
OT min.	2.4 mm
MD max.	0.8 mm
FP max.	43.6 mm
ОР	41.3±0.8 mm

Maintained-contact Models

Pin Plunger Z-15ER





Plunger

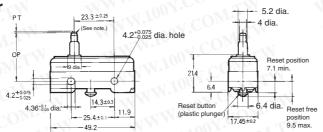
OF max.	1.96 to 2.50 N
PT max.	0.4 mm
OT min.	0.13 mm
OP	15.9±0.4 mm

Reset Button

OF max.	0.55 to 2.79 N
OT min.	0.4 mm

Slim Spring Plunger Z-15ESR





Note: Stainless steel plunger (tip only, flat, R1 bevel).

Plunger

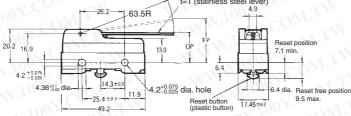
OF max.	2.65 N
PT max.	0.4 mm
OT min.	1.6 mm
OP.	28.2±0.5 mm

Reset Button

OF max.	2.79 N
OT min.	0.4 mm
	7 17

Hinge Lever





Lever Tip

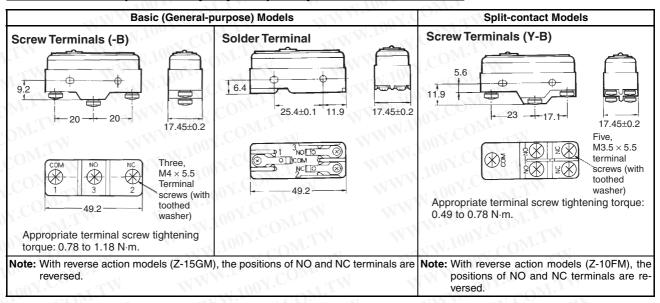
	4 1111 7.	
OF max.	0.54 N	
OT min.	5.6 mm	
FP max.	28.2 mm	
OP	19±0.8 mm	

Reset Button

OF max.	2.94 N
OT min.	0.4 mm

■ Terminals

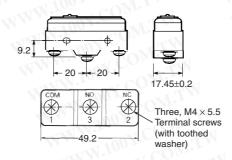
Basic Models (General-purpose) & Split-contact Models



Basic Models (Drip-proof) without Terminal Protective Cover

Without Terminal Protective Cover

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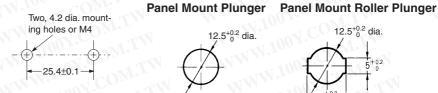


Note: With reverse action models (Z-15GM), the positions of NO and NC terminals are reversed.

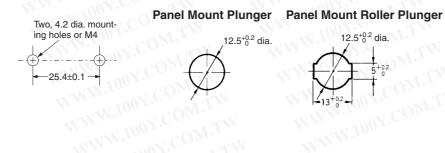
Mounting

Use M4 screws with plane washers and spring washers to mount the Switch. Tighten each mounting screw securely to a torque of 1.18 to

Basic Models (General-purpose) & Split-contact Models



Basic Models (Drip-proof) without Terminal Protective Cover



12.5^{+0.2} dia.

Molded Terminals (Drip-proof Type/Molded Terminal)

■ Contact Form

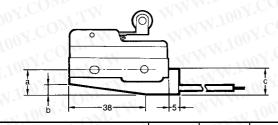


Note: With the reverse action model (Z-15GM), the positions of NO and NC terminals are reversed.

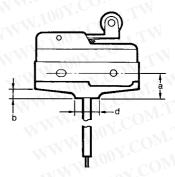
Dimensions

L/R Type

(The following illustration is the R type.)



Lead wire	а	b	d
VSF	12	4	13
VCT	19	11	20



Lead wire	а	b	d
VSF	12	4	12
VCT	19	11.C	16

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Lead Wire Specifications

Lead wire	Nominal cross- sectional area (mm²)	Finished outer diameter (mm)	Connection to terminal	Length (m)
VSF (single-core, vinyl cord)	1.25	Approx. 3.1 dia.	Black: COM	1, 3
VCT (vinyl-insulated cable)	ON. TW	Three-core: approx. 10.5 dia.	White: NO Red: NC	1100 X.COM

Note: No models with molded terminals are approved by UL, CSA, or TÜV. WWW.100Y.COM

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Precautions

Refer to pages 25 to 30 of General Information for details.

■ Correct Use

Panel Mount Switch (Z-15 Q , Z-01 Q)

When mounting the panel mount plunger model with screws on a side surface, be careful of the dog angle and operation speed. Excessive dog angle or operation speed may damage the Switch.

The Switch can be panel mounted, provided that the hexagonal nut of the actuator is tightened to a torque of 2.94 to 4.9 N·m.

When using the panel mount plunger model mounted with screws on a side surface, be careful not to apply a large shock. Applying a shock exceeding 100G may damage the Switch.

When using the panel mount plunger model mounted with screws on a side surface, remove the hexagonal nuts from the actuator.

High-sensitivity Switch (Z-15H)/ Extra-high-sensitivity Switch (Z-15H2)

When using the Switch in a DC circuit, be sure to provide an arc suppressor as well because the small contact gap of the Switch may result in contact troubles.

In an application where a high repeat accuracy is required, limit the current that flows through the Switch to within 0.1 A. Also, use a relay to control a high-capacity load if the Switch is connected to such a load. (In this case, the exciting current of the relay coil is the load of the Switch.)

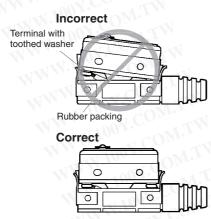
Do not apply a force of 19.6 N or higher to the pin plunger.

Exercise care that the environment conditions such as temperature and humidity do not change abruptly.

Models with Drip-proof Terminal Cover (Z-□A55-B5V)

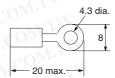
Wiring

To attach the Protective Cover to the case, hold the cover in almost parallel to the case and then push it to the case. If the cover is pushed diagonally, the rubber packing may slip off, degrading the sealability of the Switch.



Use round solderless terminals having the following dimensions to connect leads to the terminals. Tighten the screws of terminals to a torque of 0.78 to 1.18 N·m.

Use the terminal shown below.



A cable 8.5 to 10.5 mm in diameter can be applicable to the sealing rubber of the lead outlet of the Switch. A two-core or three-core VCT cable having a cross-sectional area of 1.25 mm² is especially suitable for this.

Use M4 small screws with spring toothed washer are used as the terminal screws.

Drip-proof Switch (Z□55)

The Switch is not perfectly oil-tight; so do not dip it in oil or water.

The rubber boots are made from weather-resistive chloroprene rubber.

Do not use Basic Switches in places with radical changes in temperature.

Rubber boots and rubber caps will tend to harden at lower ambient temperatures. If an Actuator is used in a pressed state for an extended period of time at low temperatures, it may return slowly or it may not return at all.

OMRON can provide special Actuators for use at low temperature with rubber boots or rubber caps made of silicon rubber, which has superior resistance to cold. Ask you OMRON representative for details.

Split-contact Switch (Z-10F□Y)

The applicable current varies depending on how the contacts are used. If the Switch is connected in series, the Switch can endure a current 1.5 to 2 times higher than the current that can be applied in parallel connection.

Flexible Rod Switch (Z-15□NJ□55, Dripproof)

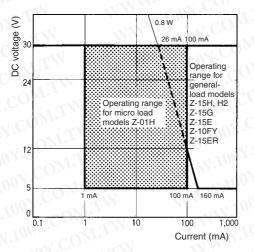
When the rod is fully swung, the Switch may operate when the lever returns, causing chattering. Use a circuit that compensates for chattering wherever possible.

Do not switch the rod to the fullest extent when the Switch is to break a power circuit because such a practice may cause metal deposition to occur between the mating contacts of the Switch.

Micro Load Applicable Range

Using a model for ordinary loads to open or close the contact of a micro load circuit may result in faulty contact. Use models that operate in the following range. However, even when using micro load models within the operating range shown here, if inrush current occurs when the contact is opened or closed, it may increase contact wear and so decrease durability. Therefore, insert a contact protection circuit where necessary.

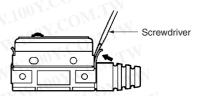
The minimum applicable load is the N-level reference value. This value indicates the malfunction reference level for the reliability level of 60% (λ 60). The equation, λ 60 = 0.5×10⁻⁶/operations indicates that the estimated malfunction rate is less than 1/2,000,000 operations with a reliability level of 60%.



Item	Z-01H	Z-15□, Z-10FY
Minimum applicable load	1 mA at 5 VDC	160 mA at 5 VDC

Others

Do not apply an excessive force to the mounting bracket with a screwdriver or a similar object when attaching or detaching the protective cover; otherwise, the cover will be deformed.



This terminal protective cover cannot be used with models whose model number does not have the prefix "-B5V."

Terminal protective covers can be ordered separately for mainte-

■ Accessories (Order Separately)

Refer to Z/A/X/DZ Common Accessories for details about Terminal Covers, Separators, and Actuators.

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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. B001-E1-12A

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