

Basic Switch

Z

General Purpose Basic Switch

- High precision basic switch in a variety of styles
- Wide margins of operating conditions increase the operating speed range
- Available in general purpose and dripproof types







Ordering Information



Pin plunger



Slim spring plunger



Short spring plunger



Spring plunger



Panel mount plunger



Panel mount roller plunger



Panel mount cross roller plunger







Low-force hinge lever



Low-force wire hinge lever



Short hinge roller lever



Hinge roller lever



Unidirectional short hinge roller lever



Flexible rod

GENERAL PURPOSE TYPE Standard

	Operating		Part Number	
Actuator	Characteristics	Rated Current	Solder Terminal	Screw Terminal
Pin plunger		15 A	Z-15G	Z-15G-B
Slim spring plunger		15 A	Z-15GS	Z-15GS-B
Short spring plunger	Low OP	15 A	Z-15GD	Z-15GD-B
Panel mount plunger	Middle OP	15 A	Z-15GQ	Z-15GQ-B
Panel mount roller plunger		15 A	Z-15GQ22	Z-15GQ22-B
Panel mount cross roller plunger		15 A	Z-15GQ21	Z-15GQ21-B
Hinge lever	Low OF	15 A	Z-15GW	Z-15GW-B
Low-force hinge lever		15 A	Z-15GW4	Z-15GW4-B
Short hinge roller lever		15 A	Z-15GW22	Z-15GW22-B
Hinge roller lever	Parallel	15 A	Z-15GW2	Z-15GW2-B
Unidirectional short hinge roller lever	Low OF	15 A	Z-15GW2277	Z-15GW2277-B

GENERAL PURPOSE TYPE

High-sensitivity

	Operating		Part Number	
Actuator	Characteristics	Rated Current	Solder Terminal	Screw Terminal
Pin plunger		15 A	_	Z-15H-B
Low-force hinge lever		15 A	_	Z-15HW24-B
Low-force, wire hinge lever	Low OF	15 A	Z-15HW78	Z-15HW78-B
Short hinge roller lever		15 A	_	Z-15HW22-B

DRIP-PROOF TYPE

Standard

	Operating	Rated	Contact	Part Number	
Actuator	Characteristics	Current	Gap	Solder Terminal	Screw Terminal
Slim spring plunger		15 A	0.5 mm	Z-15GS55	Z-15GS55-B
Short spring plunger		15 A	0.5 mm	Z-15GD55	Z-15GD55-B
Spring plunger	Middle OP	15 A	0.5 mm	Z-15GK55	Z-15GK55-B
	High OP	15 A	0.5 mm	Z-15GK355	Z-15GK355-B
Panel mount plunger	Middle OP	15 A	0.5 mm	Z-15GQ55	Z-15GQ55-B
Panel mount roller plunger		15 A	0.5 mm	_	Z-15GQ2255-B
Panel mount cross roller plunger		15 A	0.5 mm	_	Z-15GQ2155-B
Hinge lever	Low OF	15 A	0.5 mm	Z-15GW55	Z-15GW55-B
Short hinge roller lever		15 A	0.5 mm	Z-15GW2255	Z-15GW2255-B
Hinge roller lever	Parallel	15 A	0.5 mm	Z-15GW255	Z-15GW255-B
Flexible rod	High OF	15 A	0.5 mm	Z-15GNJ55	Z-15GNJ55-B

DRIP-PROOF TYPE

High-sensitivity

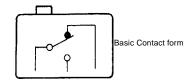
	Operating	Rated	Contact	Part Number	
Actuator	Characteristics	Current	Gap	Solder Terminal	Screw Terminal
Panel mount plunger	Middle OP	15 A	0.25 mm	_	Z-15HQ55-B
Flexible rod	High OF	15 A	0.25 mm		Z-15HNJS55-B

Note: For smaller mounting hole types, please consult OMRON.

■ BASIC CONTACT FORM

Туре	Contact gap	Features			
General purpose	H: 0.25 mm (high sensitivity)	Pin plunger and lever types available. Drip-proof and flexible rod types are also available.			
	G: 0.5 mm (standard)				
Drip-proof	H: 0.25 mm (high sensitivity)	The pin plunger is sealed from the other switch mechanisms by a resilient rubber, and the case and cover are sealed by adhesive so that the switch is resistant to			
	G: 0.5 mm (standard)	humidity, oil and dust. The degree of protection conforms to IEC IP63.			





Specifications _____

Standard type (except flexible rod types)

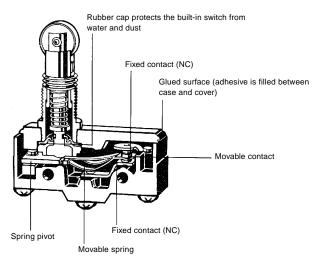
		Non-ind	uctive load	(A) b		Inductive	e load (A)				
Contact	Rated	Resistiv	e load	Lamp lo	ad	Inductive	e load	Motor lo	ad	Inrush curre	nt (A)
gap	voltage	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
G,H	125 VAC	15 (10)	_	3	1.5	15 (10)	_	5	2.5	30 max.	15 max.
	250 VAC	15 (10)	_	2.5	1.25	15 (10)	_	3	1.5]	
	500 VAC	10	_	1.5	0.75	6	_	1.5	0.75]	
G	8 VDC	15	_	3	1.5	15	_	5	2.5]	
	14 VDC	15	_	3	1.5	10	_	5	2.5]	
	30 VDC	6	_	3	1.5	5	_	5	2.5]	
	125 VDC	0.5	_	0.5	0.5	0.05	_	0.05	0.05]	
	250 VDC	0.25	_	0.25	0.25	0.03	_	0.03	0.03]	
Н	8 VDC	15	_	3	1.5	15	_	5	2.5]	
	14 VDC	15	_	3	1.5	10	_	5	2.5]	
	30 VDC	2	_	2	1.4	1	_	1	1	1	
	125 VDC	0.4	_	0.4	0.4	0.03	_	0.03	0.03	1	
	250 VDC	0.2	_	0.2	0.2	0.02	_	0.02	0.02	1	

Standard flexible rod types

	Non-ind	Non-inductive load (A)			Inductive load (A)					
Rated	Resistiv	e load	Lamp lo	ad	Inductive	e load	Motor lo	ad	Inrush curre	nt (A)
voltage	NC	NO	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC	15	_	2	1	7	_	2.5	2	30 max.	15 max.
250 VAC	15	_	1	0.5	5	_	1.5	1		
8 VDC	15	_	2	1	7	_	3	1.5		
14 VDC	15	_	2	1	7	_	3	1.5		
30 VDC	2	_	2	1	1	_	1	0.5		
125 VDC	0.4	_	0.4	0.4	0.03	_	0.03	0.03		
250 VDC	0.2	_	0.2	0.2	0.02	_	0.02	0.02		

■ CONSTRUCTION

Drip-proof type



Characteristics _

		Standard	Standard flexible rod types			
		(except flexible rod types)	(coil spring and steel wire type)			
Operating speed		0.01 mm to 1 m/second (see note 2)	1 mm to 1 m/second			
Operating frequency	Mechanical	240 operations/min.	120 operations/min.			
	Electrical	20 operations/min.	20 operations/min.			
Insulation resistance		100 MΩ min. (at 500 VDC)				
Contact resistance		50 mΩ max. (initial)	15 mΩ max. (initial)			
Dielectric strength (VAC)	G contact gap model	1,000 VAC, 50/60 Hz for 1 minute betwee	n terminals of same polarity			
	H contact gap model	600 VAC, 50/60 Hz for 1 minute				
		2,000 VAC, 50/60 Hz for 1 minute between current carrying metal parts and				
		ground and between each terminal and non-current carrying metal parts				
Vibration	Malfunction	10 to 55 Hz, 1.5 mm	10 to 20 Hz, 1.5 mm			
		double amplitude (see note 4)	double amplitude			
Shock	Mechanical durability	1,000 m/s ² min. (approx. 100 g)				
	Malfunction	300 m/s ² min. (approx. 30 g) (see note 3)	50 m/s ² min. (approx. 5 g)			
Ambient temperature	Standard types	-25° to 80°C (with no icing)				
	Drip-proof types	-15° to 80°C (with no icing)				
Humidity	Standard types	35% to 85% RH				
	Drip-proof types	35% to 95% RH				
Service life	Mechanical	G, H contact gap models	1,000,000 operations min.			
		20,000,000 operations min. (see note 4)				
	Electrical	G, H contact gap models 500,000 operations min. (see note 2)	100,000 operations min.			
Weight		Approx. 22 to 58 g	Approx. 42 to 48 g			

Note: 1. Data shown are of initial value.

- 2. Apply to the pin plunger models or the pin plunger of the lever models.
- 3. Apply to Z-15G.
- 4. Apply to the pin plunger models.

■ ACCESSORIES (order separately)

Operating Characteristics (when used with Z-15)

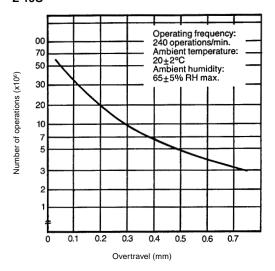
Characteristics	ZAA-1 w/Z-15G-B	ZAA-2 w/Z-15G-B
OF max.	500 g	500 g
RF min.	170 g	170 g
PT max.	_	_
OT min.	12.7 mm	12.7 mm
MD max.	2.2 mm	2.2 mm
FP max.	34.5 mm	46.1 mm
OP	28.9±1.6 mm	40.4±1.6 mm

Terminal enclosures - Standard models

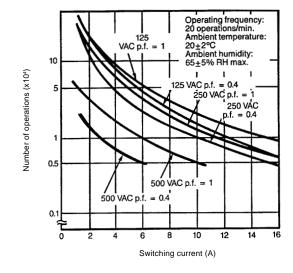
Material	Mounting method	For solder terminal	For screw terminal	Remarks
Phenolic resin	Side mounting	AP-A	AP-B	_
Metal	Side mounting	AP1-A	AP1-B	Use in conjunction with AP-A and AP-B
Polyvinyl chloride	Side mounting	AP-Z	AP-Z	Excels in safety and dust-proofing property

■ CHARACTERISTIC DATA

Mechanical service life Z-15G



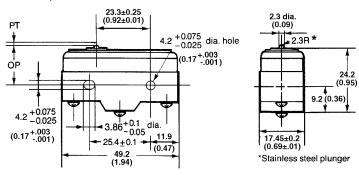
Electrical service life Z-15G



Dimensions_

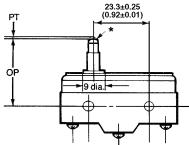
Unit: mm (inch)

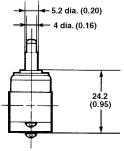
Z-15G-B, Z-15H-B



Operating characteristics	Z-15G-B	Z-15H-B
OF	250 to 350 g	200 to 280 g
RF min.	114 g	114 g
PT max.	.4 mm (0.02)	.3 mm (0.01)
OT min.	.13 mm (0.01)	.13 mm (0.01)
MD max.	.05 mm (0.002)	.025 mm (0.001)
OP	$15.9 \pm 0.4 \text{ mm}$ (0.63 ± 0.02)	$15.9 \pm 0.4 \text{ mm}$ (0.63 ± 0.02)

Z-15GS-B

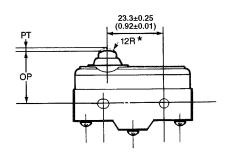


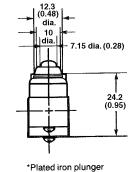


I		1
*Stainless steel plunger (flat,	, 1R chamfered)	

Operating	
characteristics	Z-15GS-B
OF	250 to 350 g
RF min.	114 g
PT max.	0.4 mm (0.02)
OT min.	1.6 mm (0.06)
MD max.	0.05 mm (0.002)
OP	28.2 ± 0.5 mm
	(1.1 ± 0.02)

Z-15GD-B

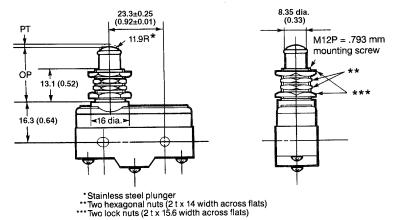




Z-15GD-B
250 to 350 g
114 g
0.4 mm (0.02)
1.6 mm (0.06)
0.05 mm (0.002)
21.5 ± 0.5 mm
(0.85 ± 0.02)

- Note: 1. Unless otherwise specified, a tolerance of $\pm\,0.4$ mm applies to all dimensions.
 - 2. For smaller diameter mounting holes, please consult OMRON.
 - 3. All drawings show the switches with screw terminals. For solder terminals, remove the "-B" from the end of the part number.

Z-15GQ-B

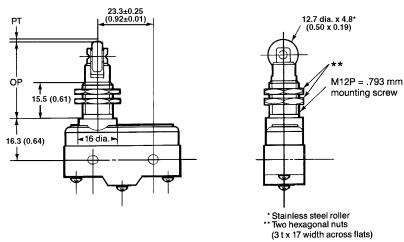


Operating	
characteristics	Z-15GQ-B
OF	250 to 350 g
RF min.	114 g
PT max.	0.4 mm (0.02)
OT min.	5.5 mm (0.22)
MD max.	0.05 mm (0.002)
OP	21.8 ± 0.8 mm
	(0.86 ± 0.03)

Z-15GQ22-B	
Z-15GQ22-B PT (0.92±0.01) OP 15.5 (0.61) 16.3 (0.64)	12.7 dia. x 4.8* (0.50 x 0.19) ** M12P = .793 mm mounting screw
1 ' 1 ' '	Ţ
	* Stainless steel roller
	** Two hexagonal nuts (3 t x 17 width across flats)
	(3 (x 1/ width across hats)

Operating	
characteristics	Z-15GQ22-B
OF	250 to 350 g
RF min.	114 g
PT max.	0.4 mm (0.02)
OT min.	3.58 mm (0.14)
MD max.	0.05 mm (0.002)
OP	33.4 ± 1.2 mm
	(1.31 ± 0.05)

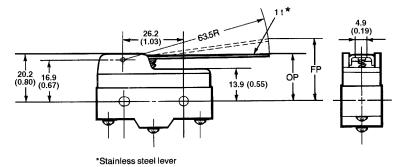
Z-15GQ21-B



Operating	
characteristics	Z-15GQ21-B
OF	250 to 350 g
RF min.	114 g
PT max.	0.4 mm (0.02)
OT min.	3.58 mm (0.14)
MD max.	0.05 mm (0.002)
OP	$33.4\pm1.2~\text{mm}$
	(1.31 ± 0.05)

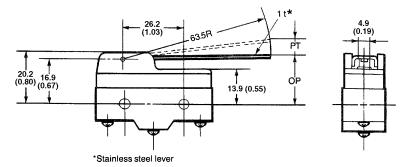
- Note: 1. Unless otherwise specified, a tolerance of $\pm\,0.4$ mm applies to all dimensions.
 - 2. For smaller diameter mounting holes, please consult OMRON.
 - 3. All drawings show the switches with screw terminals. For solder terminals, remove the "-B" from the end of the part number.

Z-15GW-B



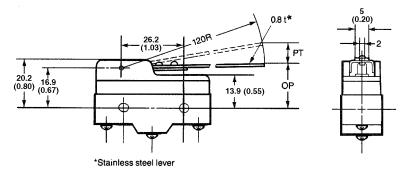
Operating characteristics	Z-15GW-B
OF max.	70 g
RF min.	14 g
OT min.	5.6 mm (0.22)
MD max.	1.27 mm (0.05)
FP max.	28.2 mm (1.11)
OP	$19 \pm 0.8 \text{ mm}$ (0.75 ± 0.03)

Z-15GW4-B



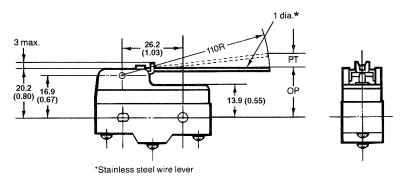
Operating	
characteristics	Z-15GW4-B
OF max.	28 g
RF min.	3.5 g
PT max.	10 mm (0.39)
OT min.	5.6 mm (0.22)
MD max.	1.27 mm (0.05)
OP	19 ± 0.8 mm
	(0.75 ± 0.03)

Z-15HW24-B



Operating characteristics	Z-15HW24-B
OF max.	6 g
RF min.	0.5 g
PT max.	19.8 mm (0.78)
OT min.	10 mm (0.39)
MD max.	2 mm (0.08)
OP	19.8 \pm 1.6 mm (0.75 \pm 0.03)

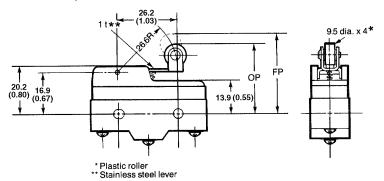
Z-15HW78-B



Operating characteristics	Z-15HW78-B
OF max.	4 g
RF min.	0.3 g
PT max.	10 mm (0.39)
OT min.	6 mm (0.24)
MD max.	3 mm (0.12)
OP	20 ± 1 mm (0.79 ± 0.04)

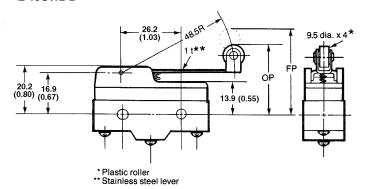
- Note: 1. Unless otherwise specified, a tolerance of $\pm\,0.4$ mm applies to all dimensions.
 - 2. For smaller diameter mounting holes, please consult OMRON.
 - 3. All drawings show the switches with screw terminals. For solder terminals, remove the "-B" from the end of the part number.

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



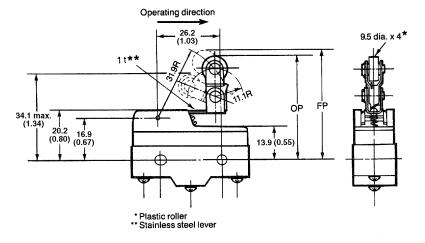
Operating characteristics	Z-15GW22-B	Z-15HW22-B
OF max.	160 g	150 g
RF min.	42 g	42 g
OT min.	2.4 mm (0.09)	2.4 mm (0.09)
MD max.	0.5 mm (0.02)	0.45 mm (0.02)
FP max.	32.5 mm (1.28)	32.5 mm (1.28)
OP	$30.2 \pm 0.4 \text{ mm}$ (1.19 ± 0.02)	$30.2 \pm 0.4 \text{ mm}$ (1.19 ± 0.02)

Z-15GW2-B



Operating	
characteristics	Z-15GW2-B
OF max.	100 g
RF min.	22 g
OT min.	4 mm (0.16)
MD max.	1.02 mm (0.04)
FP max.	36.5 mm (1.44)
OP	30.2 ± 0.8 mm
	(1.19 ± 0.03)

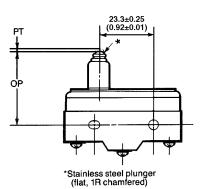
Z-15GW2277-B



Operating characteristics	Z-15GW2277-B
OF max.	170 g
RF min.	42 g
OT min.	2.4 mm (0.09)
MD max.	0.51 mm (0.02)
FP max.	43.6 mm (1.72)
OP	$41.3 \pm 0.8 \text{ mm}$ (1.63 ± 0.03)

- Note: 1. Unless otherwise specified, a tolerance of \pm 0.4 mm applies to all dimensions.
 - 2. For smaller diameter mounting holes, please consult OMRON.
 - 3. All drawings show the switches with screw terminals. For solder terminals, remove the "-B" from the end of the part number.

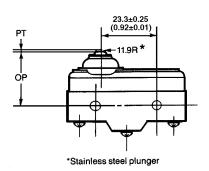
Z-15GS55-B





Operating	
characteristics	Z-15GS55-B
OF max.	540 g
RF min.	114 g
PT max.	1.9 mm (0.07)
OT min.	1.6 mm (0.06)
MD max.	0.06 mm (0.002)
OP	28.2 ± 0.5 mm
	(1.11 ± 0.02)

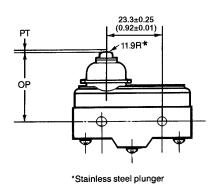
Z-15GD55-B





Operating	
characteristics	Z-15GD55-B
OF max.	540 g
RF min.	114 g
PT max.	1.8 mm (0.07)
OT min.	1.6 mm (0.06)
MD max.	0.06 mm (0.002)
OP	21.5 ± 0.5 mm
	$(.85 \pm 0.02)$

Z-15GK55-B

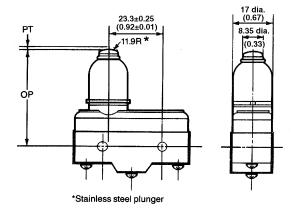




Operating characteristics	Z-15GK55-B
OF max.	540 g
RF min.	114 g
PT max.	2.3 mm (0.09)
OT min.	1.6 mm (0.06)
MD max.	0.06 mm (0.002)
OP	$28.2 \pm 0.5 \text{ mm}$ (1.11 ± 0.02)

- Note: 1. Unless otherwise specified, a tolerance of $\pm\,0.4$ mm applies to all dimensions.
 - 2. For smaller diameter mounting holes, please consult OMRON.
 - 3. All drawings show the switches with screw terminals. For solder terminals, remove the "-B" from the end of the part number.

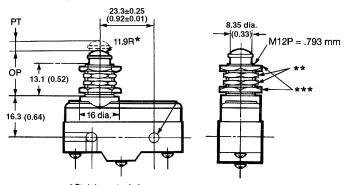
Z-15GK355-B



Operating	
characteristics	Z-15GK355-B
OF max.	540 g
RF min.	114 g
PT max.	2.4 mm (0.09)
OT min.	3.5 mm (0.14)
MD max.	0.06 mm (0.002)
OP	37.8 ± 1.2 mm
	(1.49 ± 0.05)

: Z

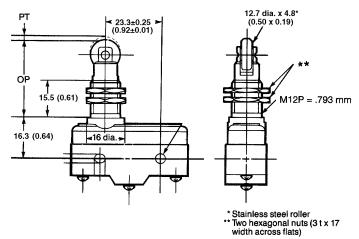
Z-15GQ55-B, Z-15HQ55-B



Operating characteristics	Z-15GQ55-B	Z-15GH55-B
OF max.	540 g	400 g
RF min.	114 g	114 g
PT min.	1.8 mm (0.07)	1.7 mm (0.07)
OT min.	5.5 mm (0.22)	5.5 mm (0.22)
MD max.	0.06 mm (0.002)	0.04 mm (0.002)
OP	21.8 ± 0.8 mm	$21.8\pm0.8~\text{mm}$
	(0.86 ± 0.03)	(0.86 ± 0.03)

- * Stainless steel plunger
 *** Two hexagonal nuts (21 x 14 width across flats)
 *** Two lock nuts (21 x 15.6 width across flats)

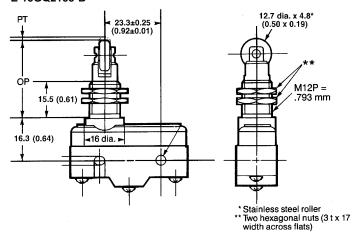
Z-15GQ2255-B



Operating characteristics	Z-15GQ2255-B
OF max.	540 g
RF min.	114 g
PT max.	1.8 mm (0.07)
OT min.	3.58 mm (0.14)
MD max.	0.06 mm (0.002)
OP	33.4 ± 1.2 mm
	(1.31 ± 0.05)

- Note: 1. Unless otherwise specified, a tolerance of \pm 0.4 mm applies to all dimensions.
 - 2. For smaller diameter mounting holes, please consult OMRON.
 - 3. All drawings show the switches with screw terminals. For solder terminals, remove the "-B" from the end of the part number.

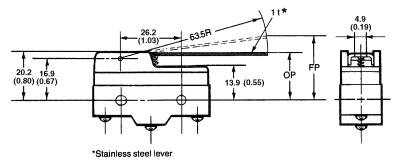
Z-15GQ2155-B



Operating characteristics	Z-15GQ2155-B
OF max.	540 g
RF min.	114 g
PT max.	1.8 mm (0.07)
OT min.	3.58 mm (0.14)
MD max.	0.06 mm (0.002)
OP	$33.4 \pm 1.2 \text{ mm}$ (1.31 ± 0.05)

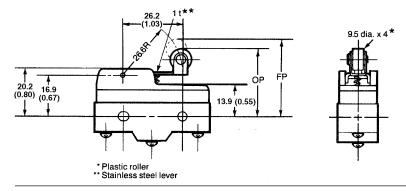
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Z-15GW55-B



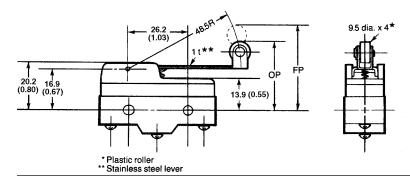
Operating	
characteristics	Z-15GW55-B
OF max.	100 g
RF min.	14 g
OT min.	5.6 mm (0.22)
MD max.	2 mm (0.08)
FP max.	28.2 mm (1.11)
OP	19 ± 0.8 mm
	(0.75 ± 0.03)

Z-15GW2255-B



Operating characteristics	Z-15GW2255-B
OF max.	200 g
RF min.	42 g
OT min.	2.44 mm (0.10)
MD max.	0.8 mm (0.03)
FP max.	32.9 mm (1.30)
OP	30.2 ± 0.4 mm (1.19 ± 0.02)

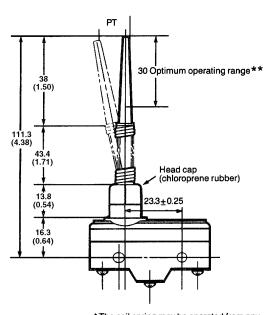
Z-15GW255-B

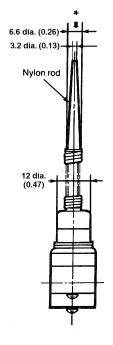


Operating characteristics	Z-15GW255-B
OF max.	130 g
RF min.	21 g
OT min.	4 mm (0.16)
MD max.	1.6 mm (0.06)
FP max.	36.5 mm (1.44)
OP	30.2 ± 0.8 mm
	(1.19 ± 0.03)

- Note: 1. Unless otherwise specified, a tolerance of \pm 0.4 mm applies to all dimensions.
 - 2. For smaller diameter mounting holes, please consult OMRON.
 - 3. All drawings show the switches with screw terminals. For solder terminals, remove the "-B" from the end of the part number.

Z-15GNJ55-B

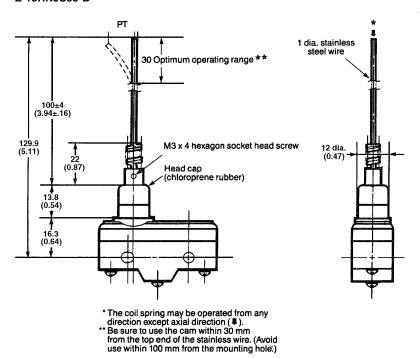




Operating characteristics	Z-15GNJ55-B
OF max.	50 g
PT max.	20 mm* (0.79)

* Reference value

Z-15HNJS55-B



Operating characteristics	Z-15HNJ55-B
OF max.	15 g
PT max.	25 mm* (0.98)

* Reference value

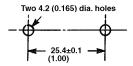
- Note: 1. Unless otherwise specified, a tolerance of \pm 0.4 mm applies to all dimensions.
 - 2. For smaller diameter mounting holes, please consult OMRON.
 - 3. All drawings show the switches with screw terminals. For solder terminals, remove the "-B" from the end of the part number.

^{*}The coil spring may be operated from any direction except axial direction (\$\\ \\ \\ \).

*Be sure to use the cam within 30 mm from the top end of the stainless wire. (Avoid use within 80 mm from the mounting hole.)

■ MOUNTING HOLES

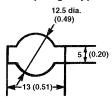
Side mounting



Panel mounting plunger type

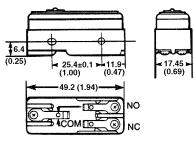


Roller plunger type

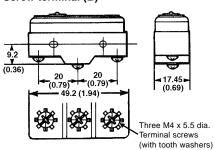


■ TERMINALS

Solder terminal (blank)

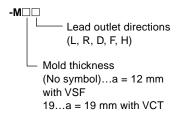


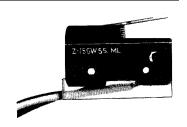
Screw terminal (B)



■ MOLDED TERMINAL TYPE ORDERING INFORMATION

The solder terminal type can be supplied with molded terminals with a choice of five different lead outlet directions. When placing your order for the molded terminal type, add the following code to the model number.



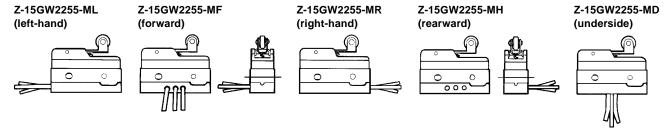


Note: 1. Standard leads are single-core vinyl cords (VSF) with a nominal cross sectional area of 1.25 mm².

- 2. Standard vinyl cord lengths are 1 m, 3 m, and 5 m.
- 3. Mold thickness will be 19 mm when using VCT cords.
- 4. Standard unit has three lead outlets in the same direction.
- 5. Connect the black lead to the COM terminal, white lead to the NO terminal, and red lead to the NC terminal, respectively.

■ DIRECTIONS OF LEAD OUTLETS

The following diagrams show the molded terminal version of sealed type Z-15GW2255, with a mold thickness of 12 mm.



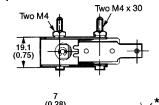
Note: Respective directions of lead outlets are determined with the plunger viewed on your left.

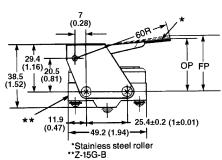
■ LEAD WIRE SPECIFICATIONS

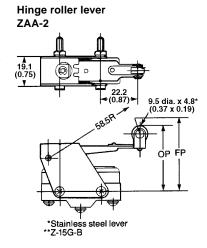
	Nominal cross-	Finished outer	Connection to	
Туре	sectional area (mm²)	diameter (mm)	terminal	Length (m)
VSF (single-core, vinyl cord)	1.25	Approx. 3.1	Black-COM	0.5, 1, 2, 3, 5
VCT (vinyl-insulated cable)		Approx. 9.6 (2-core)	White-NO	(standard)
		Approx. 10.5 (3-core)	Red-NC	

■ ACCESSORIES, order separately

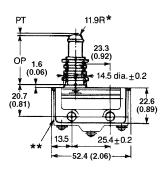
Hinge lever ZAA-1

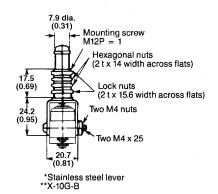






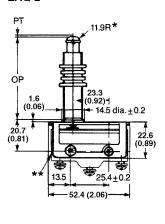
Panel mount plunger ZAQ-3

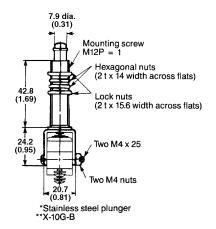




740 2
ZAQ-3 with Z-15G
550 g
144 g
1 mm (0.04 in)
4.5 mm (0.18 in)
0.2 mm (0.01 in)
27.8±1.5 mm
(1.09±0.06 in)

Panel mount plunger ZAQ-2

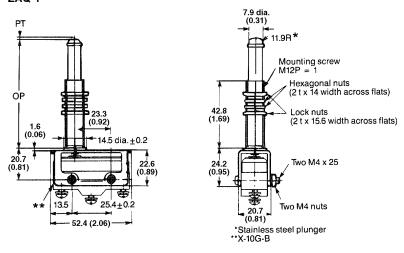




Operating	
characteristics	ZAQ-2 with Z-15G
OF max.	550 g
RF min.	144 g
RT max.	1 mm (0.04 in)
OT min.	4.5 mm (0.18 in)
MD max.	0.2 mm (0.01 in)
OP	53.2±1.5 mm (2.09±0.06 in)

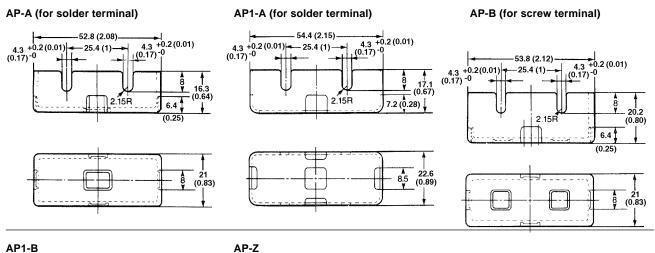
Note: Unless otherwise specified, a tolerance of $\pm\,0.8$ mm applies to all dimensions.

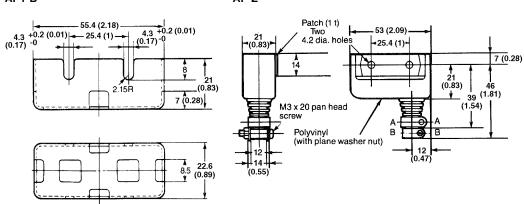
Panel mount plunger ZAQ-1



Operating characteristics	ZAQ-1 with Z-15G
OF max.	550 g
RF min.	144 g
RT max.	1 mm (0.04 in)
OT min.	20.4 mm (0.80 in)
MD max.	0.2 mm (0.01 in)
OP	69.1±1.5 mm (2.72±0.06 in)

Note: Unless otherwise specified, a tolerance of \pm 0.8 mm applies to all dimensions.

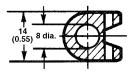




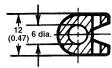
Note: Unless otherwise specified, a tolerance of \pm 0.4 mm applies to all dimensions.

■ CABLE OUTLET DIMENSIONS

A-A section



B-B section



Note: The cable outlet is provided with two stepped openings (6 dia. and 8 dia.) to permit the use of either opening according to the finished OD of the cable to be connected.

■ APPROVALS

UL (File No. E41515)/CSA (File No. LR21642)/SEV (File No. S20/163)

Туре	Rating
Z-15 Series	15 A 125, 250 or 480 VAC
	1/2 A 125 VDC, 1/4 A 250 VDC
	1/8 HP 125 VAC, 1/4 A 250 VAC

Note: The rated values approved by each of the safety standards (e.g. UL/CSA) may be different from the performance characteristics individually defined in this catalog.

Precautions

■ MOUNTING

Use M4 mounting screws with plain washers or spring washers to mount the switch. Tighten the screws at a torque of 12 to 15 kg-cm.

Solder the lead to the terminal by applying a soldering iron rated at 60 W max. quickly (within 5 seconds). Note that applying a soldering iron for too long a time or using one that is rated at more than 60 W may degrade the switch characteristics.

Panel mount type (Z-15□Q)

When mounting a panel mount type switch (the one having a suffix "-Q" in its model number) to a panel, tighten the hexagon nut of the actuator at a torque of 50 kg-cm or less.

When mounting a panel mount type switch on its side, remove the hexagon nut from the actuator and carefully adjust the dog angle and operating speed because too large a dog angle or too high an operating speed may damage the switch. Especially be careful not to apply an impulsive force to the actuator when operating it. By the same token, too high an operating speed and too long an overtravel may damage a panel mount switch with a roller pin plunger.

■ OPERATION

High sensitivity switch (Z-15H)

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 current of the relay coil is the load of the switch.)

Do not apply a force of 2 kg or higher to the pin plunger. Exercise care that the environment conditions such as temperature and humidity do not change abruptly.

Drip-proof type (Z-□55)

The switch is not perfectly oil-tight; so, do not dip it in oil or water

Depending on the environments, the materials of the rubber boots must be selected. Oil-tight, cold-resistive, and heat-resistive rubbers are available from OMRON.

Flexible rod type (Z-15\(\times\)NJ\(\times\)55) (drip-proof type)

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.

OMRON **-** Z

OMRON

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