Special-purpose Basic Switch

DPDT Basic Switch for Two Independent Circuit Control

- Incorporates two completely independent built-in switches.
- Ideal for switching the circuits operating on two different voltages, and for controlling two independent circuits.
- Interchangeable with OMRON Z Basic Switches, as both switches are identical in mounting hole dimensions, mounting pitch and pin plunger position.



Ordering Information

		Terminal	Solder terminal (-1A)	Screw terminal (-B) 픻
Actuator		OT (min.)	Model	Model
Pin plunger	1	0.13 mm	DZ-10G-1A	DZ-10G-1B
Hingo lover		1.6 mm	DZ-10GW-1A	DZ-10GW-1B
Hinge lever	<u> </u>	0.4 mm	DZ-10GV-1A	DZ-10GV-1B
Short hinge roller lever	Q	0.9 mm	DZ-10GW22-1A	DZ-10GW22-1B
Short hinge roller level	<u> </u>	0.13 mm	DZ-10GV22-1A	DZ-10GV22-1B
Hinge roller lever	Q	1.2 mm	DZ-10GW2-1A	DZ-10GW2-1B
Thinge toller level	<u></u>	0.26 mm	DZ-10GV2-1A	DZ-10GV2-1B

Model Number Legend

DZ-10 G 🗌 - 1 🔲 1 2 3 4 5

1. Ratings

10: 10 A (250 VAC)

2. Contact Gap

G: 0.5 mm

3. Actuator

None: Pin plunger Low OT Levers:

V: Hinge lever

V22: Short hinge roller lever V2: Hinge roller lever

High OT Levers: W: Hinge lever

W22: Short hinge roller lever W2: Hinge roller lever

4. Contact Form

DPDT

5. Terminals

Solder terminal B: Screw terminal

Specifications

■ Characteristics

Operating speed		0.1 mm to 1 m/s (See note 1)	
Operating frequency	Mechanical	240 operations/min	
Operating frequency	Electrical	20 operations/min	
Contact resistance		15 m $Ω$ max. (initial value)	
Insulation resistance		100 MΩ min. (at 500 VDC)	
Dielectric strength		1,000 VAC, 50/60 Hz for 1 min between non-continuous terminals 1,500 VAC, 50/60 Hz for 1 min between current-carrying metal parts and non-current-carrying metal part, and between current-carrying metal part and ground and between switches	
Vibration resistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude (See note 2)	
Shock resistance	Destruction	1,000 m/s² max.	
	Malfunction	300 m/s ² max. (See notes 1 and 2)	
Degree of protection		IP00	
Degree of protection against electric shock		Class I	
Proof tracking index (PTI)		175	
Ambient operating temperature		−25°C to 80°C (with no icing)	
Ambient operating humidity		35% to 85%RH	
Service life	Mechanical	1,000,000 operations min.	
	Electrical	500,000 operations min.	
Weight		Approx. 30 to 50 g	

Note: 1. The values are for pin plunger models.

2. Malfunction: 1 ms max.

■ Ratings

	Non-inductive load (A)			Inductive load (A)				
Rated voltage (V)	Resistive load		Lamp load		Inductive load		Motor load	
(*)	NC	NO	NC	NO	NC	NO	NC	NO
125 VAC 250 VAC		10 10	2 1.5	1 0.7		6 4	3 2	1.5 1
8 VDC 14 VDC 30 VDC	7	10 10 10	3 3 3	1.5 1.5 1.5		6 6 4	5 5 3	2.5 2.5 1.5
125 VDC 250 VDC).5 .25).5 .25	_	05 03	_	05 03

Note: 1. The above values are for steady-state current.

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

3. Lamp load has an inrush current of 10 times the steady-state current.

- 4. Motor load has an inrush current of 6 times the steady-state current.
- The ratings values apply under the following test conditions:

 (1) Ambient temperature: 20±2°C

 (2) Ambient humidity: 65±5%RH

 (3) Operating frequency: 20 operations/min

■ Contact Specifications

Contacts	Material	Silver alloy
Comacis	Gap (standard value)	0.5 mm
Inrush current	NC	30 A max.
	NO	15 A max.

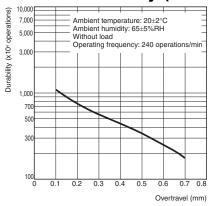
■ Safety Standard Ratings

UL/CSA

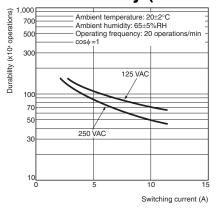
Rated voltage	DZ-10G
125 VAC	10 A and 1/8 HP
250 VAC	10 A and 1/4 HP
480 VAC	2 A
125 VDC	0.5 A
250 VDC	0.25 A

Engineering Data

■ Mechanical Durability (DZ-10G-1B)

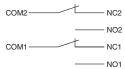


■ Electrical Durability (DZ-10G-1B)



■ Structure

Contact Form (DPDT)

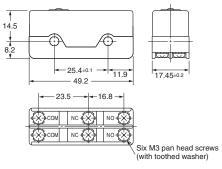


Dimensions

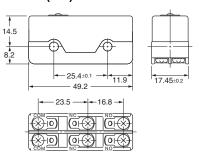
Note: Unless otherwise specified, all units are in millimeters and a tolerance of $\pm\,0.4$ mm applies to all dimensions.

■ Terminals

Screw Terminals (-1B)



Solder Terminals (-1A)



■ Mounting

All switches can be mounted using M4 mounting screws with plane washers or spring washers to securely mount the Switch. Tighten the screws to a torque of 1.18 to 1.47 N·m.



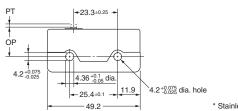
Accessories (Terminal Covers, and Separators): Refer to 'Z/A/X/DZ Common Accessories' datasheet



- Note: 1. The solder terminal model has a suffix "-1A" in its model number and its omitted dimensions are the same as the corresponding dimensions of the pin plunger model.
 - 2. Unless otherwise specified, all units are in millimeters and a tolerance of $\pm\,0.4$ mm applies to all dimensions.

Pin Plunger DZ-10G-1B



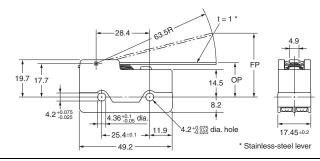




Operating force Release force Pretravel Overtravel	OF max. RF min. PT max. OT min.	570 gf 57 gf 1.7 mm 0.13 mm
Movement Differential	MD max.	0.4 mm
Operating Position	OP	15.6±0.4 mm

Hinge Lever DZ-10GW-1B

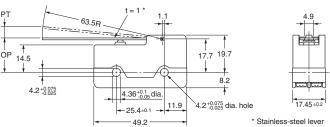




MD max. 4 mm FP max. 46.3 mm
OP 21.8+1 m

DZ-10GV-1B

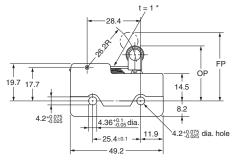


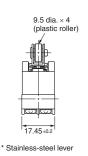


OF max.	200 gf
RF min.	13 gf
PT max.	6 mm
OT min.	0.4 mm
MD max.	1.7 mm
OP	18.3±1 mm

Short Hinge Roller Lever DZ-10GW22-1B



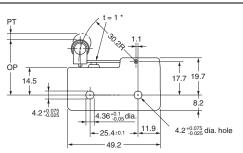


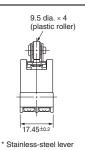


OF max.	400 gf
RF min.	85 gf
OT min.	0.9 mm
MD max.	2.4 mm
FP max.	39.7 mm
OP	30.2±0.8 mm

DZ-10GV22-1B







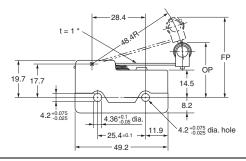
OF max.	430 gf
RF min.	42 gf
PT max.	3 mm
OT min.	0.13 mm
MD max.	0.6 mm
ОР	29.4±0.8 mm

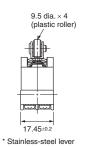


- Note: 1. The solder terminal model has a suffix "-1A" in its model number and its omitted dimensions are the same as the corresponding dimensions of the pin plunger model.
 - 2. Unless otherwise specified, all units are in millimeters and a tolerance of $\pm\,0.4$ mm applies to all dimensions.

Hinge Roller Lever DZ-10GW2-1B



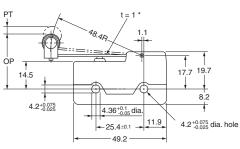


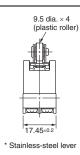


OF max.	213 gf
RF min.	42 gf
OT min.	1.2 mm
MD max.	3.3 mm
FP max.	47.6 mm
OP	31.8±0.8 mm

DZ-10GV2-1B







OF max.	270 gf
RF min.	34 gf
PT max.	4 mm
OT min.	0.26 mm
MD max.	1.1 mm
OP	29.4±0.8 mm

Safety Precautions

Be sure to read the precautions and information common to all Snap Action and Detection Switches, contained in the Technical User's Guide, "Snap Action Switches, Technical Information" for correct use.

Precautions for Safe Use Terminal Connection

When soldering lead wires to the Switch, make sure that the capacity of the soldering iron is 60 W maximum. Do not take more than 5 s to solder any part of the Switch. The characteristics of the Switch will deteriorate if a soldering iron with a capacity of more than 60 W is applied to any part of the Switch for 5 s or more.

Operation

- Make sure that the switching frequency or speed is within the specified range.
- 1. If the switching speed is extremely slow, the contact may not be switched smoothly, which may result in a contact failure or contact welding.
- 2. If the switching speed is extremely fast, switching shock may damage the Switch soon. If the switching frequency is too high, the contact may not catch up with the speed.

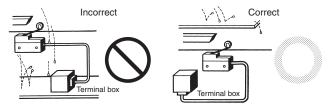
The rated permissible switching speed and frequency indicate the switching reliability of the Switch.

The life of a Switch is determined at the specified switching speed. The life varies with the switching speed and frequency even when they are within the permissible ranges. In order to determine the life of a Switch model to be applied to a particular use, it is best to conduct an appropriate durability test on some samples of the model under actual conditions.

• Make sure that the actuator travel does not exceed the permissible OT position. The operating stroke must be set to 70% to 100% of

Precautions for Correct Use Mounting Location

- Do not use the switch alone in atmospheres such as flammable or explosive gases. Arcing and heat generation associated with switching may cause fires or explosions.
- · Switches are generally not constructed with resistance against water. Use a protective cover to prevent direct spraying if the switch is used in locations subject to splashing or spurting oil or water, dust adhering.

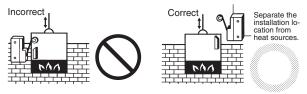


• Install the switch in a location that is not directly subject to debris and dust from cutting. The actuator and the switch body must be protected from accumulated cutting debris and dirt.



- Do not use the switch in locations subject to hot water (greater than 60°C) or in water vapor.
- · Do not use the switch outside the specified temperature and atmospheric conditions.

The permissible ambient temperature depends on the model. (Refer to the specifications in this catalog.) Sudden thermal changes may cause thermal shock to distort the switch and result in faults.



• Mount a cover if the switch is to be installed in a location where worker inattention could result in incorrect operation or accidents.



- Subjecting the switch to continuous vibration or shock may result in contact failure or faulty operation due to abrasion powder and in reduced durability. Excessive vibration or shock will cause the contacts to operate malfunction or become damaged. Mount the switch in a location that is not subject to vibration or shock and in a direction that does not subject the switch to resonance.
- If silver contacts are used with relatively low frequency for a long time or are used with microloads, the sulfide coating produced on the contact surface will not be broken down and contact faults will result. Use a microload switch that uses gold contacts.
- Do not use the switch in atmospheres with high humidity or heat or in harmful gases, such as sulfide gas (H2S, SO2), ammonia gas (NH₃), nitric acid gas (HNO₃), or chlorine gas (Cl₂). Doing so may impair functionality, such as with damage due to contacting faults or corrosion
- The switch includes contacts. If the switch is used in an atmosphere with silicon gas, arc energy may cause silicon oxide (SiO₂) to accumulate on the contacts and result in contact failure. If there is silicon oil, silicon filling, silicon wiring, or other silicon products in the vicinity of the switch, use a contact protection circuit to limit arcing and remove the source of the silicon gas.

Omron Electronic Components, LLC

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Definitions: The words used herein are defined as follows.

Terms: These terms and conditions

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The buyer of Products, including any end user in section III through VI Buyer: (c)

Products: Products and/or services of Seller Including: Including without limitation

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Delivery and shipping dates are estimates only; and

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- 12. Claims: Any claim by Buyer against Seller for shortage or damage to the Products occurring before delivery to the carrier or any claim related to pricing or other charges must be presented in detail in writing to Seller within 30 days of receipt of shipment.

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- Suitability: IT IS THE BUYER'S SOLE RESPOINSIBILITY TO ENSURE THAT ANY OMRON PRODUCT IS FIT AND SUFFICIENT FOR USE IN A MOTORIZED VEHICLE APPLICATION. BUYER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING APPROPRIATENESS OF THE PARTICULAR PRODUCT WITH RESPECT TO THE BUYER'S APPLICATION INCLUDING (A) ELECTRICAL OR ELECTRONIC COMPONENTS, (B) CIRCUITS, (C) SYSTEM ASSEMBLIES, (D) END PRODUCT, (E) SYSTEM, (F) MATÉRIALS OR SUBSTANCES OR (G) OPERATING ENVIRONMENT. Buyer acknowledges that it alone has determined that the Products will meet their requirements of the intended use in <u>all</u> cases. Buyer must know and observe all prohibitions of use applicable to the Product/s.
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 - Outdoor use, use involving potential chemical contamination or electrical interference.

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Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and

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(d) Systems, machines, and equipment that could present a risk to life or property.

Prohibited Use: NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM

Motorized Vehicle Application: USE OF ANY PRODUCT/S FOR A MOTORIZED VEHICLE APPLICATION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY

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<u>Programmable Products:</u> Seller shall not be responsible for the Buyer's programming of a programmable Product.

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- Warranty: Seller's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT ALL OTHER WARRANTIES, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS.
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- Performance Data: Performance data is provided as a guide in determining suitability and does not constitute a warranty. It may represent the result of Seller's test conditions, and the users must correlate it to actual application requirements.
- Change In Specifications: Product specifications and descriptions may be changed at any time based on improvements or other reasons. It is Seller's practice to change part numbers when published ratings or features are changed, or when significant engineering changes are made. However, some specifications of the Product may be changed without any notice.
- Errors And Omissions: The information on Seller's website or in other documentation has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.
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 - Use in consumer products or any use in significant quantities. Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this

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- <u>Programmable Products.</u> Seller shall not be responsible for the user's programming of a programmable product, or any consequence thereof. <u>Performance Data.</u> Performance data given in this publication is provided as
- a guide for the user in determining suitability and does not constitute a war-ranty. It may represent the result of Seller's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to
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 Change in Specifications. Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are change, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Seller representative at any time to confirm actual specifications of purchased Product. your application. Please consult will your speller representative at any time to confirm actual specifications of purchased Product.

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 RoHS Compliance. Where indicated, our products currently comply, to the best of our knowledge as of the date of this publication, with the requirements of the European Union's Directive on the Restriction of certain Hazardous Substances ("RoHS"), although the requirements of RoHS do not take effect until July 2006. These requirements may be subject to change. Please consult until July 2006. These requirements may be subject to change. Please consult our website for current information.

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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.

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Cat. No. X303-E-1

11/09

Specifications subject to change without notice

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Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

http://moschip.ru/get-element

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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