

Sealed Ultra Subminiature Basic Switch with industry's smallest class size

OMRON

D2GW Sealed Basic Switch

Now on sale

Features

Industry Smallest Class

Volume ratio that is 62% of conventional models (8.3x6.5x5.3mm)

Double-sided twin sliding contacts

High performance due to high contact reliability and foreign material is cleaned by the sliding contact mechanism

Wide Variety

Variety of mounting structures, actuators, and terminal specifications are available. Lever Installation is also possible.



Specification

Items		
Operating speed		30mm～500mm/s (pin plunger models)
Operating frequency	Mechanical	30 operations/min max.
	Electrical	30 operations/min max
Insulation resistance		100MΩ min. (at 500 VDC)
Contact resistance (initial value)	Terminals	500mΩ max.
	Between same polarity	500 VAC 50/60 Hz 1min
Dielectric strength	Between current carrying metal parts and ground	1,500 VAC 50/60 Hz 1min
	Between each terminal and non-current carrying metal part	1,500 VAC 50/60 Hz 1min
Vibration resistance *1	Malfunction	10 to 55Hz, 1.5mm double amplitude
Shock resistance	Destruction	1,000 m/s ² Max.
	Malfunction *1	300 m/s ² Max.
Durability *2	Mechanical	200,000operations Min. (at 30ops./min.)
	Electrical	200,000 operations Min. (at 20ops./min.)
Degree of protection		IEC IP67
Ambient operating temperature		-40 to +85°C (at 60% RH Max.) (with no icing or condensation)
Ambient operation humidity		95%RH max. (for +5 to +35°C)
Heat resistance		85°C 500 hours
Cold resistance		-40°C 500 hours
Humidity resistance		70°C 95%RH 500 hours
Temperature cycle resistance		-40°C (12 hours) <--> 55°C (12 hours) 5 cycles
Weight		Approx. 0.5g (for pin plunger models with terminals)

Application



EV Chargers



Electronic Locks



Metering Devices



Security Devices