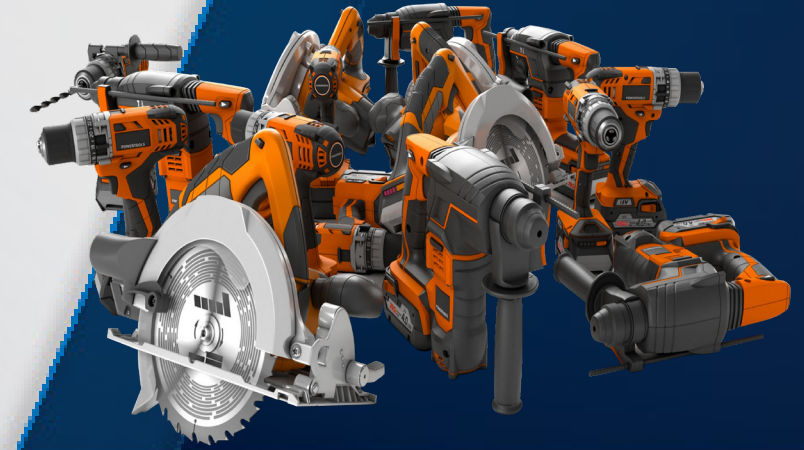




Omron Reaches New Innovative Heights with Sensors and Switches to Advance the Power Tool Market

The power tool market is undergoing a transformation as professionals and consumers require handy, energy-efficient tools that provide comfort and elevated results. As the leading innovator in the realm of electronic and mechanical components, Omron's line-up of sensors and switches provide manufacturers the opportunity to design tools that are attractive, durable and meet the growing demand for advanced technology.

Discover how Omron innovation fits into your next power tool design challenge.



● TRIGGER SWITCH – C3AW

Omron's C3AW series addresses the needs of Brushless DC Power Tool trends of dust proof, withstanding shock, small size and durability.

A D V A N T A G E S ●

Dust-Proof

High anti-dust performance (equivalent to IEC IP6X) by mounting sealed boots and ultrasonic welding connection between Cover-Cases

Shock-Resistance

No 100 μ sec or more of chattering within 3,000m/s²

Smaller Switch Body

This downsized component can fit in the limited space of the power tool's grip

Durable

Trigger actuation mechanical life of more than 300,000 operations

ABOUT THIS PRODUCT

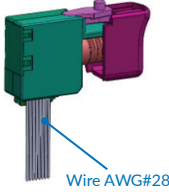
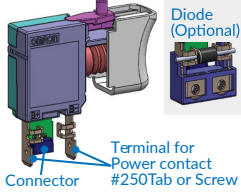
We offer 2 different types of trigger switches.

C3AW-1A: without power contact (only signal output)

C3AW-2B: with power contact for fail-safe

It is possible to modify parts of the trigger switch to meet the unique requirements of your design. Examples of elements that can be customized include color or shape of the trigger cap, operating characteristics, cable length, and connector types.

Watch our trigger switch overview video [here](#).

Specifications		C3AW-1A (w/o Power Contact)	C3AW-2B (w/ Power Contact)
Outline Size		W25×D13.5×H28.5 mm	
Rating		10mA, 42VDC	
Operating Force	Trigger	20N max.	
	Change over	5N±3	
Operating Characteristics		-	-
		PT1 (Main switch ON position)	2.0mm±0.3
		PT2 (Variable output start position)	2.8mm±0.4
		PT3 (Full speed position)	6.5mm±0.5
		TT (Total Travel)	8.5mm±0.5
Image/ Circuit Diagram			
			

LEARN MORE

SEALED BASIC SWITCH- D2QW

This switch can support a wide range of power tool applications where waterproof, dustproof, impact resistance and seismic resistance are required.

ADVANTAGES

Water/Dust-Proof

D2QW series has standard of IP67

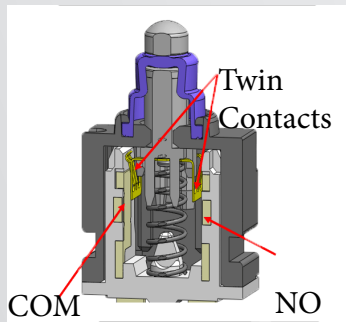
High Reliability for Contact

D2QW switches have sliding double contacts that provide better contact reliability and resistance to heavy shock and vibration.

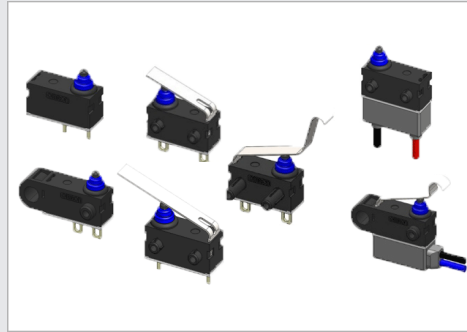
Variations

D2QW switches offer a wide variety of model variations in order to meet your application needs, including different lever types, ratings, contact forms and terminals.

TWIN SLIDING CONTACTS



MODEL VARIATIONS



APPLICATIONS

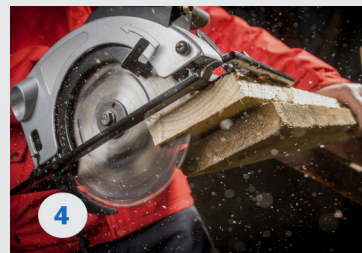
Nail Gun



Brush Cutter



Circular Saw



Chainsaw



- ① Prevention of blank shot (wall contact detection)
- ② Remaining amount detection (Nail)
- ③ Motor control (Power signal)
- ④ LED light control
- ⑤ Handle grip detection

[LEARN MORE](#)

TACTILE SWITCH – B3Sx

Various types of tactile switches are available - from standard (non-sealed) to sealed types - that offer value to power tool applications. Choose from through hole/ SMT and small to large stroke variations.

ADVANTAGES

High Contact Reliability

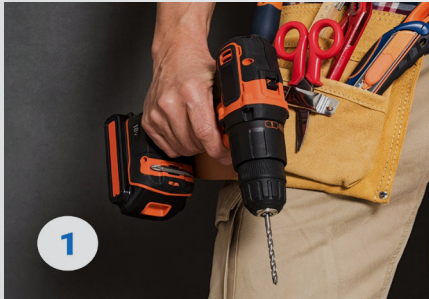
Sealed construction conforming to IP67 (IEC 60529) provides high contact reliability in dusty environments (excluding the terminal section).

Ultra-thin

B3SE is just 2mm high due to Omron thin production and miniature parts assembly technologies.

APPLICATIONS

Impact/Drill Driver



Vacuum Cleaner



① Function Switching

② Power Control

LEARN MORE

ENVIRONMENTAL SENSOR – 2JCIE

Omron's Environmental sensor is a multi-function sensing component capable of tracking eight different environmental factors which include : temperature, humidity, light, UV index, barometric pressure, noise, acceleration and VOC (Volatile Organic Compounds) with wireless communication functionality in an ultra-small footprint.

ADVANTAGES

Convenient

Combines Bluetooth® Low energy technology with different sensing capabilities. Immediately available for your use.

Multitask

Multiple sensing capabilities in one package. Users can choose different locations to sense the surrounding environment.

Reliable

All sensing data is stored in the internal memory of the device. Users can access it at all times without having to worry about loss of data.

USB Type
Environmental Sensor
2JCIE-BU01



Sensor functions



Temperature



Humidity



Light



UV Index



Barometric
Pressure



Noise



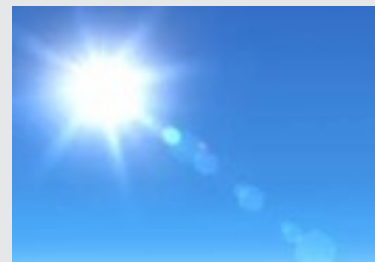
Acceleration



VOC

APPLICATIONS

Your customers, such as construction workers, work long and physically strenuous days in hot environments. With these conditions, it is important to be mindful of the dangers of heat stroke. With its multi-sensing capability, the 2JCIE environment sensor can alert the power tool user on their risk of heat stroke.



LEARN MORE

CONTACT US!



Omron offers many different component solutions for the power tool industry and can also customize per your needs with industry know-how and global technical expertise.

[Contact Omron Product Manager, Patrick Lahey,](#)
for more information.