

# ONPOW: Industrial On Button Controls, Dip Switch Insights & Stop Button Solutions for Automation

*ONPOW deliver certified on button controls, in-depth dip switch technical guides and stop button safety solution for industrial automation, machinery worldwide.*

YUEQING, ZHEJIANG, CHINA, July 30, 2026 /EINPresswire.com/ -- Reliable human-machine interface components form the backbone of safe, efficient industrial operations. From primary control actuators to internal configuration switches and safety stop devices, every component directly impacts equipment uptime, operator safety and overall system reliability. As a leading industrial [On Button](#) manufacturer with over 35 years of industry experience, ONPOW provides a full portfolio of high-quality push buttons, pilot devices and industrial control components, paired with authoritative technical resources to support customers from product selection to field deployment.

Founded in 1988 with a registered capital of RMB 80.08 million and approximately 300 employees, ONPOW

is an integrated R&D, manufacturing and sales enterprise specializing in push button switches and pilot devices. The company operates under ISO 9001 quality management, ISO 14001 environmental management and ISO 45001 occupational health and safety management systems. All core products carry international safety certifications including UL, VDE, CCC, CE



Manufacture and sales of button switch products, signal indicator products, switch products and related accessories



stop-button

(LVD) and CE (EMC), and are backed by a 10-year product warranty.

ONPOW's product portfolio covers metal push button switches, plastic push button switches, emergency stop buttons, key & selector switches, warning lights, metal and plastic indicators, relays & industrial control switches, and push button switch boxes, with panel cutout dimensions ranging from  $\Phi 6\text{mm}$  to  $\Phi 30\text{mm}$  to fit diverse installation requirements. With IP65/IP67 ingress protection ratings, impact resistance and corrosion resistance, the products perform reliably in demanding environments including food processing, special vehicles, industrial equipment and industrial robotics. Trusted by global industry leaders including Bosch, Toyota, Foxconn, Siemens and XCMG, ONPOW delivers both standard catalog products and full custom solutions to meet unique project needs.

#### 1. [Stop Button](#): Distinguishing Standard Control from Safety-Critical Actuation

In industrial control systems, stop-function buttons are core elements of safe operation, but the functional positioning and design standards of standard stop buttons and emergency stop buttons are fundamentally different — a distinction often overlooked in equipment integration projects. ONPOW publishes in-depth technical guidance to help engineering teams correctly specify and deploy Stop Button devices, ensuring full compliance with industrial safety regulations.

Standard stop buttons are functional control components used for normal equipment shutdown under routine operating conditions. Typically designed with a flat actuator, they trigger a controlled, programmed stop sequence that brings equipment to a halt in an orderly manner. Emergency stop buttons, by contrast, are safety-rated protective devices featuring a prominent red mushroom head with latching operation (twist or pull to reset). When activated, they cut power to the drive circuit directly for immediate shutdown, designed exclusively for hazardous emergency situations to protect personnel and equipment, and must meet strict safety

## DIP SWITCH

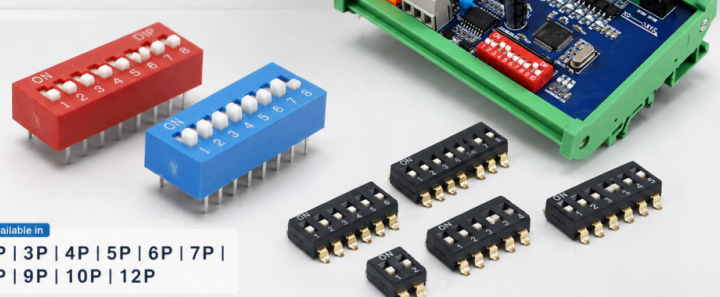
Precision Control, Flexible Configuration

Compact design with reliable performance for a wide range of industrial applications.

Various Positions

Reliable Performance

Easy Installation



Available in  
2P | 3P | 4P | 5P | 6P | 7P |  
8P | 9P | 10P | 12P

WIDE APPLICATIONS

Industrial Automation

Control Systems

Instrumentation

Power Equipment

Telecom Devices

dip-switch



Metal Push Button Switch

dip-switch

Metal Push Button Switch

certification standards.

ONPOW's full line of stop and emergency stop products is engineered for targeted application scenarios. Standard stop buttons are available in both metal and plastic housings with customizable contact configurations. Emergency stop models carry IP65/IP67 protection ratings, with over 10 years of proven market performance in complex industrial environments. Both product lines support custom marking, wiring options and contact arrangements to match specific equipment safety integration requirements.

## [2. Dip Switch](#): Reliable Hardware-Level Configuration for Industrial and Electronic Systems

Beyond panel-mounted operator controls, reliable internal function configuration and address setting are equally critical for equipment performance. As a widely used miniature configuration component in industrial electronics, Dip Switch selection and deployment directly impact commissioning efficiency and long-term system stability. ONPOW's comprehensive technical guide breaks down core principles, product types, key specifications and real-world application scenarios to support R&D and engineering teams in component selection.

A DIP (dual in-line package) switch is a set of manually operated miniature electronic switches. Each toggle can be set to ON or OFF, forming binary code combinations for parameter presetting, address configuration or function selection. It requires no software programming, retains its state during power loss, and offers a simple structure, strong anti-interference performance and high reliability. Available in surface-mount (SMD) and through-hole (DIP) mounting styles, the former is optimized for automated SMT production while the latter offers greater mechanical stability for industrial equipment. Configurations range from 2-position to 10-position and beyond, supporting a wide range of coding combinations.

In practical applications, DIP switches are widely used for device address setting and operating mode selection in industrial automation systems, parameter presetting in network communication equipment, zone configuration in security and smart building systems, and function selection in automotive electronics. Against the backdrop of Industry 4.0 and IoT growth, physical DIP switches serve as a hack-resistant hardware-level configuration method that cannot be altered remotely, acting as an additional layer of safety redundancy alongside software-based configuration systems.

ONPOW supplies DIP switch solutions tailored to different application scenarios, paired with professional selection guidance to help customers choose optimal solutions based on rated current, operating temperature, protection requirements and mounting method, ensuring long-term stability of equipment configuration systems.

## 3. Custom Solutions and Full-Cycle Support

Beyond standard catalog products, ONPOW provides full-spectrum OEM/ODM customization

services, covering actuator design, contact configuration, lamp color, terminal type, laser marking and special material formulations. With low minimum order quantities and fast lead times, the company adapts to project requirements of all sizes. From pre-sales consultation and solution matching to after-sales technical support, ONPOW delivers end-to-end service to global customers, helping equipment manufacturers improve the reliability and differentiated competitiveness of their human-machine interfaces.

#### 4.Frequently Asked Questions

Q: What core products does ONPOW manufacture?

A: ONPOW specializes in industrial push button switches and pilot devices, including metal and plastic push buttons, emergency stop buttons, key & selector switches, warning lights, indicators, relays, industrial control switches and push button enclosures. Products cover panel cutout dimensions from  $\Phi 6\text{mm}$  to  $\Phi 30\text{mm}$ , with IP65/IP67 protection ratings for harsh operating environments.

Q: What is the key difference between a standard stop button and an emergency stop button?

A: A standard stop button is a routine control component for normal, programmed equipment shutdown with a flat actuator. An emergency stop button is a safety-rated device with a red latching mushroom head that cuts power immediately for hazard response, requiring compliance with specific industrial safety standards and certifications.

Q: What are the primary application scenarios for DIP switches?

A: DIP switches are widely used for device address assignment and mode configuration in industrial automation systems, network and communication hardware, security and smart building systems, automotive electronics, medical devices and laboratory instruments. They provide reliable, power-independent hardware-level configuration.

Q: What certifications and warranty coverage does ONPOW provide?

A: ONPOW holds ISO 9001, ISO 14001 and ISO 45001 management system certifications. Its products carry UL, VDE, CCC and CE (LVD/EMC) safety certifications. All standard ONPOW products are backed by a 10-year warranty, with dedicated after-sales technical support for customers worldwide.

Q: Does ONPOW offer custom push button and switch solutions?

A: Yes. With 35+ years of R&D and manufacturing experience, ONPOW provides full OEM/ODM customization services, including custom actuator shape, contact configuration, illumination color, terminal design, custom marking and special material options. We support low-MOQ custom projects to match unique equipment requirements.

#### 5.Final Thoughts

As industrial automation continues to advance and equipment safety requirements become

increasingly stringent, high-quality control and configuration components remain the foundational guarantee of reliable equipment operation. With 35 years of industry accumulation, complete international certifications, a comprehensive product matrix and professional technical support, ONPOW has established itself as a trusted provider of push button switch solutions for the global industrial control sector.

Whether you are sourcing standard operator buttons in bulk, specifying safety-rated stop and emergency stop devices for safety systems, or seeking technical guidance for DIP switch selection, ONPOW's technical and sales teams are ready to provide professional support and service. To explore the full product catalog, download technical datasheets or submit a customization request, visit the official website to contact our international sales team.

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