

# INNOVATIVE KEY SWITCH DESIGN FOR INDUSTRIAL EQUIPMENT





## Introduction

Key switches are essential components in industrial and robotic equipment, enabling secure On/Off control. In applications where reliability and durability are critical, traditional mechanical key switches often struggle in harsh conditions such as high humidity, chemical exposure, and dust accumulation. These failures lead to downtime, costly replacements, and reduced customer satisfaction.

Standex Detect has addressed these challenges through collaborative innovation, leveraging decades of expertise in magnetic sensing. The result is the **KS01 Series Reed Technology Key Switch** - a robust, non-contact solution designed for demanding environments.



## Challenges in Harsh Environments

### **Mechanical wear and corrosion:**

Traditional contacts degrade when exposed to solvents, water, or dust.

### **Unreliable performance:**

Dust-filled facilities and wash-down processes compromise mechanical switches.

### **Operational costs:**

Frequent replacements increase maintenance expenses and reduce equipment uptime.

# KS01 REED TECHNOLOGY KEY SWITCH

"A robust, non-contact solution designed for demanding environments."

## The Solution

The **KS01 Series Reed Technology Key Switch** integrates magnetic non-contact switching with hermetically sealed reed technology. The reed switches are sealed in potting to avoid environmental exposure while the activation magnet is contained in a rotational piece within the housing. The rotational piece is controlled by a separate key that can only be removed when the Key Switch is in the off position. By eliminating exposed mechanical contacts, the switch ensures millions of fault-free operations in the harshest of environments.

This design guarantees the right performance, at the right time, at the optimal cost, aligning with Standex's engineering philosophy.



REACH  
COMPLIANCE



## KEY FEATURES:

- 01** On/Off positions with tactile feedback
- 02** Easy panel mount assembly with M16 nut
- 03** Power handling with 10W & 100W options available
- 04** No leakage current, no power consumption
- 05** Single or dual channel options
- 06** Potted plastic housings for corrosion resistance
- 07** Nylon key matched to housing for durability

# Applications in Floor Cleaning Machines Performance You Can Trust

Floor cleaning machines operate in environments where moisture, detergents, and dust are unavoidable. The KS01 Series Key Switch provides:

- Reliable activation with IP67 rating
- Extended service life with hermetically sealed contacts
- Secure operation requiring a key to activate the sensor
- Reduced downtime and maintenance costs



By integrating the KS01, manufacturers ensure their equipment delivers consistent performance every time their customers turn on their machinery.

## Conclusion

The KS01 Series Reed Technology Key Switch is more than a component — it is a solution engineered for durability, security, and reliability in harsh industrial environments.

For floor cleaning machines, it ensures uninterrupted operation, reduced maintenance, and long-term value.

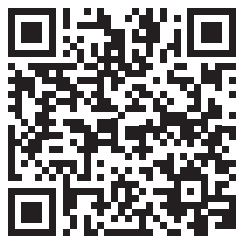


## For When it Matters - The Right Design, at the Right Time, at the Optimal Cost.

At Standex Electronics, we believe in: Collaborative innovation with our customers

- Collaborative innovation with our customers
- Delivering the right design, at the right time, at the optimal cost
- Acting as an extension of your engineering team
- Living our promise: **Innovate | Consult | Engineer | Deliver** — when the stakes are high, Standex Detect delivers

To learn more about how Standex Detect can support your projects with innovative sensing, switching, and relay technologies, visit [standexdetect.com](https://standexdetect.com) or contact our engineering team to discuss your specific application needs.



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