

South African Industrial Switch Model Parameters



AI Overview

Industrial switches in South Africa are specified by electrical ratings, protection class, mounting type, contact material, and compliance with SANS/IEC standards. Key Parameters

- 1. Electrical Ratings** Industrial switches are rated for current and voltage, often marked as 10A, 20A, or with an 'AX' suffix for high inrush loads such as fluorescent lighting (e.g., 10AX, 20AX) to indicate suitability for high transient currents. Solid-state switches like the TC0104X are designed for low- to medium-current loads, fast switching, and silent operation, with ratings varying by sub-model.
- 2. Protection Class (IP Rating)** Switches are classified by Ingress Protection (IP): IP67: Suitable for field or machine mounting, resistant to dust and temporary immersion in water. IP20: Intended for installation inside control cabinets, offering basic protection against solid objects.
- 3. Mounting and Form Factor** DIN-rail compatible panels for compact enclosures. Screw terminals or PCB mount options depending on the switch model. Mechanical switches may include snap-over contact design to prevent arcing and contact wear.
- 4. Contact Material and Life** Contacts are typically silver or silver-inlaid copper, sometimes alloyed with nickel or tin-oxide to prevent welding under high inrush currents. Solid-state switches provide high cycling life and silent operation.
- 5. Control Interface Compatibility** Electronic switches may require specific input logic levels (3.3V, 5V, or opto-isolated) to interface with PLCs or microcontrollers.
- 6. Thermal Considerations** Solid-state switches dissipate heat; adequate ventilation or heat sinking is necessary to maintain performance and longevity.
- 7. Standards Compliance** South African industrial switches must comply with SANS (IEC) 60669-1, ensuring safety and reliability in industrial and commercial installations. This includes testing for inrush current handling, insulation, and opera...

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The Telegraph

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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Industrial Switches

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