



IS/IEC 60947-5-5:2016: The Indian Standard for Reliable and Safe Emergency Stop Devices

IS/IEC 60947-5-5:2016 standard defines **low-voltage emergency stop devices** with a **mechanical latching function**. These devices, often referred to as **emergency stop buttons, emergency stop switches, or E-stop switches**, are designed to initiate an immediate stop signal to halt machinery or equipment during emergencies. They aim to protect users from hazards, prevent damage to equipment, and ensure workplace safety. These devices may either have standalone enclosures or be installed as part of a larger system per manufacturer guidelines.

Consumers typically look for **durable emergency stop devices** that are **reliable, robust**, and capable of functioning under **harsh environmental conditions**. Essential features include **mechanical durability**, the ability to withstand **vibrations, shocks, and extreme temperatures**, and a clearly visible **emergency button design** with a **red push button on a yellow background**. Users expect the devices to have a secure **mechanical latching mechanism** that prevents accidental resets and maintains the stop signal until manually disengaged. Additionally, consumers value **ease of operation, quick identification**, and compliance with **international safety standards** like **ISO 13850** to ensure reliability.

The IS/IEC 60947-5-5:2016 standard ensures that **emergency stop buttons** meet stringent design and performance criteria. It includes robust testing protocols, such as **shock tests, vibration tests, and temperature resistance evaluations**, to validate durability and reliability in real-world scenarios. The standard mandates the use of **color-coded emergency stop buttons** (red actuator, yellow background) and **universal safety symbols** for high visibility. It specifies detailed requirements for **mechanical latching** and reset mechanisms to guarantee secure operation. Additionally, by aligning with global guidelines like **ISO 13850**, the standard ensures compatibility with international safety requirements, making these devices dependable for both industrial and consumer use.