

# Mushroom Head Key Lock Emergency Stop Push Button Switch

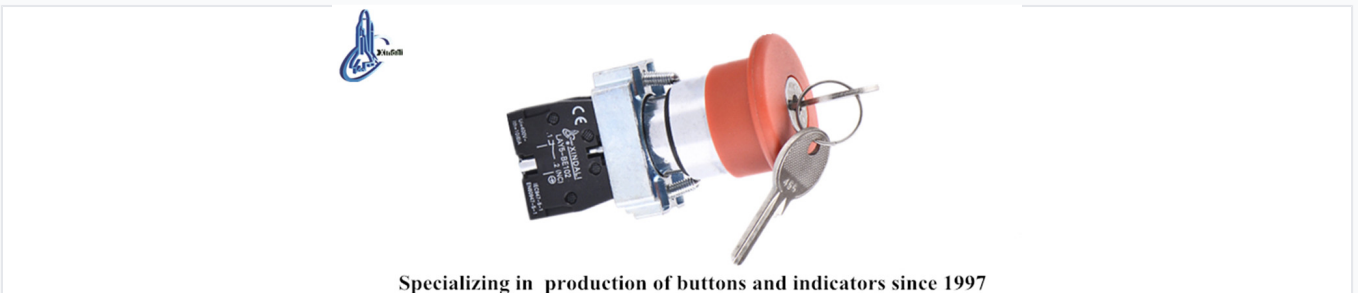
This mushroom head push button switch provides emergency stop functionality. The key lock prevents unauthorized reset after activation.



## ADDITIONAL IMAGES



## Overview



Specializing in production of buttons and indicators since 1997

Robust design suitable for industrial machinery and safety circuits.

## Industrial Emergency Stop Solution

The LAY5-BS142 is a robust, mushroom-head emergency stop push button switch designed for critical industrial control applications. Featuring a secure key-operated lock mechanism, it prevents unauthorized resetting after activation, ensuring safety protocols are strictly maintained. Built with high-grade anti-flame plastic and zinc alloy, this switch offers reliable performance in demanding environments, fully compliant with international safety standards.

## Compliance & Certifications

CE, ISO 9001, RoHS, UL, IEC 60947-5-1, GB/T14048.1

## Electrical Specifications

### Electrical Performance

**600 V**

Rated Insulation Voltage

**10 A**

Heating Current


**2.5 kV**

Withstand Voltage

### Contact Resistance

d 25m©

## Mechanical Specifications




**LAY5-BS142**

Return to release  
by key  
(Key n° 445)

N/C

N/O  
+

N/C



21  
22

● Red

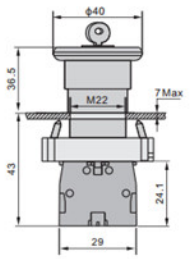
● Red

∅ 40

∅ 40

LAY5-BS142

LAY5-BS145



Technical drawing illustrating the 40mm mushroom head, M22 mounting, and key-release mechanism.

## Dimensions & Mounting

Feature	Specification
Mounting Thread	M22
Head Diameter	∅ 40mm
Max Panel Thickness	7 mm
Total Height	36.5 mm

## Operating Life

- Mechanical Life: 1,000,000 operations
- Electrical Life: 5,000,000 operations

## Design & Features

**Model and meanings**

LAY 1 2 3 4 5

Refer to the introduction  
According to structure type (Refer to the introduction)  
Optional: Mushroom control type signal lamp (T1 or T2)  
Denotes emergency stop signal lamp  
Denotes structure (Refer to the introduction)  
Material: "P" in 4 denotes metal type, "E" in 4 denotes plastic type  
Signal color  
Flash button and Signal lamp

① Denotes middle base material: "B" in 1 means metal type, "E" in 1 means plastic type  
② Letters denote structure type  
③ The number after 2 (L, E, S, L), means the signal lamp  
④ The number after 3 (L, E, S, L), means the signal lamp  
⑤ The number after 4 (L, E, S, L), means the material of safety switch (Refer to table 3)  
⑥ The number after 5 means the voltage of middle base structure (Refer to table 3)  
⑦ The number after 6 means the number of head (Refer to table 3)  
⑧ The number after 7 means the size of head (Refer to table 3)  
⑨ The number after 8 means the type of head (Refer to table 3)  
⑩ The number after 9 means the type of head (Refer to table 3)

A: Flash button      C: ∅ 40Mushroom button      E: ∅ 40Mushroom button      D: Standard handle knob  
L: Long handle knob      G: Key switch      I: Control button      H: Button with water-proof cover  
S: Turn to release type emergency button      T: Push and pull type emergency button      T1: Push and pull type emergency button  
W: Button with lamp      K: Switch with lamp      R: Auto-locking emergency button      V: Indicator lamp

⑪ Optional: ... (Refer to the introduction)  
⑫ The number after 10 (L, E, S, L), means the signal lamp  
⑬ The number after 11 (L, E, S, L), means the signal lamp  
⑭ The number after 12 (L, E, S, L), means the signal lamp  
⑮ The number after 13 (L, E, S, L), means the signal lamp  
⑯ The number after 14 (L, E, S, L), means the signal lamp  
⑰ The number after 15 (L, E, S, L), means the signal lamp  
⑱ The number after 16 (L, E, S, L), means the signal lamp  
⑲ The number after 17 (L, E, S, L), means the signal lamp  
⑳ The number after 18 (L, E, S, L), means the signal lamp  
㉑ The number after 19 (L, E, S, L), means the signal lamp  
㉒ The number after 20 (L, E, S, L), means the signal lamp  
㉓ The number after 21 (L, E, S, L), means the signal lamp  
㉔ The number after 22 (L, E, S, L), means the signal lamp  
㉕ The number after 23 (L, E, S, L), means the signal lamp  
㉖ The number after 24 (L, E, S, L), means the signal lamp  
㉗ The number after 25 (L, E, S, L), means the signal lamp  
㉘ The number after 26 (L, E, S, L), means the signal lamp  
㉙ The number after 27 (L, E, S, L), means the signal lamp  
㉚ The number after 28 (L, E, S, L), means the signal lamp  
㉛ The number after 29 (L, E, S, L), means the signal lamp  
㉜ The number after 30 (L, E, S, L), means the signal lamp  
㉝ The number after 31 (L, E, S, L), means the signal lamp  
㉞ The number after 32 (L, E, S, L), means the signal lamp  
㉟ The number after 33 (L, E, S, L), means the signal lamp  
㊱ The number after 34 (L, E, S, L), means the signal lamp  
㊲ The number after 35 (L, E, S, L), means the signal lamp  
㊳ The number after 36 (L, E, S, L), means the signal lamp  
㊴ The number after 37 (L, E, S, L), means the signal lamp  
㊵ The number after 38 (L, E, S, L), means the signal lamp  
㊶ The number after 39 (L, E, S, L), means the signal lamp  
㊷ The number after 40 (L, E, S, L), means the signal lamp  
㊸ The number after 41 (L, E, S, L), means the signal lamp  
㊹ The number after 42 (L, E, S, L), means the signal lamp  
㊺ The number after 43 (L, E, S, L), means the signal lamp  
㊻ The number after 44 (L, E, S, L), means the signal lamp  
㊼ The number after 45 (L, E, S, L), means the signal lamp  
㊽ The number after 46 (L, E, S, L), means the signal lamp  
㊾ The number after 47 (L, E, S, L), means the signal lamp  
㊿ The number after 48 (L, E, S, L), means the signal lamp  
1 means 10V    2 means 24V    3 means 24V    4 means 24V    5 means 110V + 110V    6 means 110V    7 means 230V + 230V  
8 means 230V + 230V

Configuration guide detailing structure, material, and contact types for the LAY5 series.

## Key Features

Key-Operated Reset • Mushroom Head • Emergency Stop • Anti-Flam Material • Zinc Alloy Construction