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*Representative photograph, actual product appearance may vary.*

*Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.*

# ZM90G50E01

**ZM Series, Subminiature Basic Switch, SPDT, 125/250 Vac, 10.1 A, Simulated Roller Lever Actuator, PCB Right Angle Termination**

## Features

- Subminiature: 10,6 mm H x 6,4 mm W x 19,8 mm L [0.42 in H x 0.25 in W x 0.78 in L]
- Choice of low energy or power duty electrical ratings (gold - plated or silver contacts)
- Single pole double throw (SPDT) circuitry or single pole single throw (SPST) circuitry available
- Choice of 0.1 A, 5 A or 10.1 A ratings
- Choice of actuation, termination and operating characteristics
- Polyamide (nylon) housing material

## Typical Applications

- Appliances
- Vending machines
- Timing devices
- Office equipment
- Computer/business equipment
- Test instruments
- Medical/dental equipment
- Communications equipment
- HVAC equipment
- Manually operated devices
- Valves

## Description

ZM Series Subminiature Basic Switches are used for simple or precision ON/OFF application needs. These switches combine small size and light weight with ample electrical capacity, low cost and long life.

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| Product Specifications | |
|---|---|
| **Switch Type** | Subminiature 10,6 mm H x 6,4 mm W x 19,8 mm L [0.42 in H x 0.25 in W x 0.78 in L] |
| **Sealed** | No |
| **Ampere Rating** | 10.1 A |
| **Circuitry** | Single Pole Double Throw (SPDT) |
| **Actuator** | Simulated Roller Lever |
| **Termination** | PCB Right Angle |
| **Operating Temperature Range** | - 25 °C to 85 °C [ - 13 °C to 185 °C] |
| **Voltage** | 125/250 Vac |
| **Approvals** | CE, CSA, UL |
| **Actuator Length** | 18,0 mm [0.71 in] |
| **Contact Type** | Silver |
| **Operating Force (O.F.)** | 0,55 N [2.16 oz] max. |
| **Release Force (R.F.)** | 0,13 N [0.47 oz] min. |
| **Pretravel (P.T.)** | 5,2 mm [0.205 in] max. |
| **Overtravel (O.T.)** | 0,6 mm [0.024 in] min. |
| **Differential Travel (D.T.)** | 0,9 mm [0.035 in] max. |
| **Operating Position (O.P.)** | 15,1 mm ± 1,5 mm [0.591 in ± 0.059 in] |
| **Free Position (F.P.)** | 21,8 mm [0.859 in] max. |
| **Housing Material** | Polyamide (Nylon) |
| **Humidity** | Max. 85% RH at 40 °C [104 ° F] |
| **High Temperature** | 85 °C [185 °F] |
| **Mechanical Service Life** | Min. 5,000,000 operations |
| **Dielectric Strength** | 1,000 Vac (50 Hz to 60 Hz) between contacts, between terminals and ground, for one minute |
| **Electrical Service Life** | Min. 6,000 operations on resistive load current 10.1 A at 125/250 Vac |
| **Electrical Operating Frequency** | Max. 10 operations per minute |
| **CE mark** | 61058 - 1 |
| **UL File #** | E12252 |
| **CSA File #** | 212438 |
| **Agency Approvals and Standards** | 1054 |
| **Mounting Screw Size** | 2,3 mm [0.091 in] Flat fillister head |
| **Mounting Centers** | 9,5 mm [0.37 in] |
| **Maximum Tightening Torque** | 0,31 N m [2.7 in lb] |
| **Availability** | Global |
| **UNSPSC Code** | 30211905 |
| **UNSPSC Commodity** | 30211905 Snap switches |
| **Prod Code (Stock No.)** | FBY0010 |
| **Series Name** | ZM Series |

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**⚠ WARNING**

**PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

**⚠ WARNING**

**MISUSE OF DOCUMENTATION**

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**

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