

# MWZ series

Waterproof snap-action micro switches

Distinctive features and specifications



- ❑ IP67 sealed
- ❑ UL certified
- ❑ 1 million mechanical lifecycles
- ❑ Ideal for adverse environment applications
- ❑ Optional sealed wire outlet available

## ENVIRONMENTAL SPECIFICATIONS

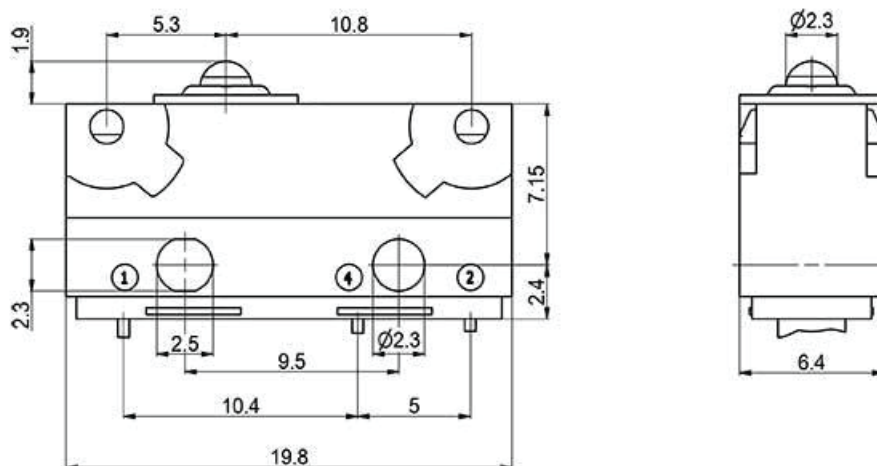
|                  |   |                              |
|------------------|---|------------------------------|
| Housing          | – | PA66-FR50                    |
| Cover            | – | PA66-FR50                    |
| Actuator         | – | PBT                          |
| Actuator sealing | – | Methyl Vinyl Silicone rubber |
| Terminals        | – | CuZn AG plated               |
| Contacts         | – | AgNi - Silver nickel         |
| Contact spring   | – | Stainless steel              |
| Contact sealing  | – | Epoxy resin                  |

## ELECTRICAL SPECIFICATIONS

|                      |   |                        |
|----------------------|---|------------------------|
| Rating               | – | 5(2)A 125/250VAC       |
| Electrical lifecycle | – | Minimum: 50,000 cycles |

## GENERAL SPECIFICATIONS

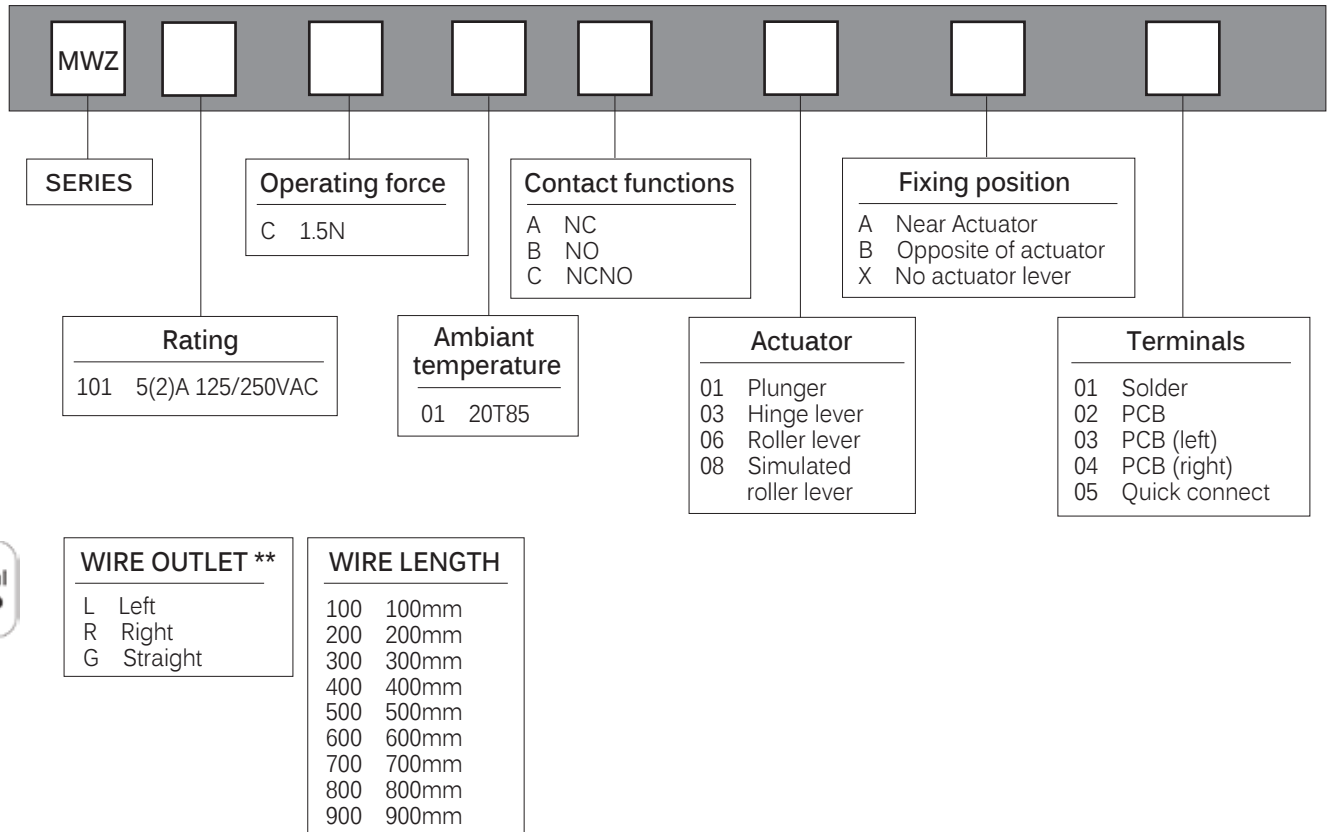
|                         |   |                                  |
|-------------------------|---|----------------------------------|
| Operating temperature   | – | -40°C to +85°C (-40°F to +185°F) |
| Sealing                 | – | IP67                             |
| Contact opening         | – | <3 mm (.118in)                   |
| Typical operating force | – | 1.5N                             |
| Mechanical lifecycle    | – | Minimum: 1 million cycles        |



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## Overview



NOTES: Standard wire colors are: Common = White; Normally closed = Red; Normally open = Black  
\*\* Only Solder terminal option available when choosing **optional** WIRE OUTLET.



Sealed to IP67 - protected against dust and liquid ingress



Packaging units:  
With wires (bags): 20 to 100 pieces per bag (depending on quantity & length of wire).  
Without wires (tray): 100 pieces per tray.



Note: The company reserves the right to change specifications without notice.

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Dimensional drawings and option detail

| CONTACT FUNCTIONS   |                   |                                     |
|---------------------|-------------------|-------------------------------------|
| A - NORMALLY CLOSED | B - NORMALLY OPEN | C - NORMALLY CLOSED / NORMALLY OPEN |
|                     |                   |                                     |

| ACTUATORS         |                             |
|-------------------|-----------------------------|
| 01 - Plunger      | 03 - Hinge lever            |
|                   |                             |
| 06 - Roller lever | 08 - Simulated roller lever |
|                   |                             |

| FIXING POSITION   |                          |                       |
|-------------------|--------------------------|-----------------------|
| A - Near actuator | B - Opposite of actuator | X - No actuator lever |
|                   |                          |                       |

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Additional wiring options

| TERMINALS                 |                                 |                          |
|---------------------------|---------------------------------|--------------------------|
| 01 - Solder terminal      | 02 - PCB terminal (0.5 x 1.2mm) | 03 - PCB terminal (left) |
|                           |                                 |                          |
| 04 - PCB terminal (right) |                                 | 05 - Quick-Connect       |
|                           |                                 |                          |

| OPTIONAL WIRE OUTLET   |                         |                            |
|------------------------|-------------------------|----------------------------|
| L - WIRE OUTLET (LEFT) | R - WIRE OUTLET (RIGHT) | G - WIRE OUTLET (STRAIGHT) |
|                        |                         |                            |

## TRAVEL TABLE

| MWZ                     | Actuator code | Actuator Length | Operating Force on lever ( $\leq N$ ) | Pretravel (mm) | Overtravel (min. mm) | Movement differential ( $\geq mm$ ) |
|-------------------------|---------------|-----------------|---------------------------------------|----------------|----------------------|-------------------------------------|
| Plunger (Standard)      | 01            | -               | -                                     | 0.8            | 0.4                  | 0.1                                 |
| NEAR ACTUATOR FIXED     |               |                 |                                       |                |                      |                                     |
| Hinge Lever             | 03            | 14.4            | 0.55                                  | -              | 1.0                  | 0.6                                 |
| Roller Lever (long)     | 06            | 12.2            | 0.60                                  | -              | 1.0                  | 0.4                                 |
| Simulated Roller Lever  | 08            | 15.1            | 0.50                                  | -              | 1.0                  | 0.6                                 |
| OPPOSITE ACTUATOR FIXED |               |                 |                                       |                |                      |                                     |
| Hinge Lever             | 03            | 14.4            | 1.05                                  | -              | 0.8                  | 0.4                                 |
| Roller Lever (long)     | 06            | 12.2            | 1.20                                  | -              | 0.6                  | 0.4                                 |
| Simulated Roller Lever  | 08            | 15.1            | 1.00                                  | -              | 0.8                  | 0.4                                 |

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