



# Miniature Pushbutton Switches

## Specifications:

|                        |  |
|------------------------|--|
| Contact rating:        | 250 V AC, 1 A / 125 V AC, 3 A<br>24 V DC, 2 A                      |
| Contact resistance:    | < 30 mΩ  |
| Insulation resistance: | > 500 MΩ at 500 V DC   |
| Dielectric strength:   | 1000 V, 50 Hz for the duration of 1 minute                         |
| Operating temperature: | - 45° to + 110° C  |
| Mechanical life:       | minimum 30 000 operations  |
| Contacts:              | coin silver,<br>also available gold-plated, version G (see page 4) |
| Terminals:             | solder tags  |
| Material:              | phenolformaldehyde<br>MSP 103 B black, MSP 103 C brown             |
| Mounting:              | bushing M 6 x 0,75   |
| Soldering conditions:  | hand-soldering – max.: 20 W, 3 sec, 350° C                         |

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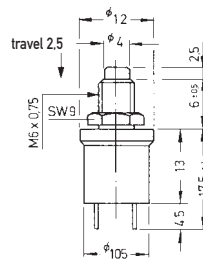
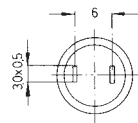
## Models:

## Switching functions

S P D T

MSP 103 B  
MSP 103 C

on – (mom)  
off – mom

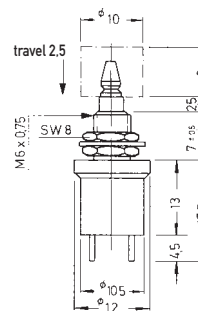
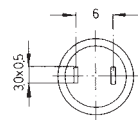


Button colour: orange

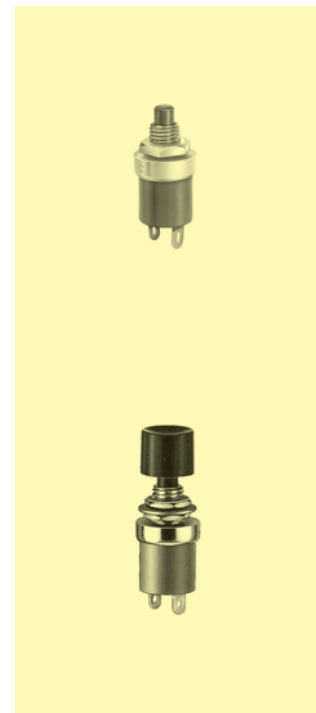
S P D T

MSP 103 BK  
MSP 103 CK

on – (mom)  
off – mom



Buttons see page 34.



# Miniature Pushbutton Switches

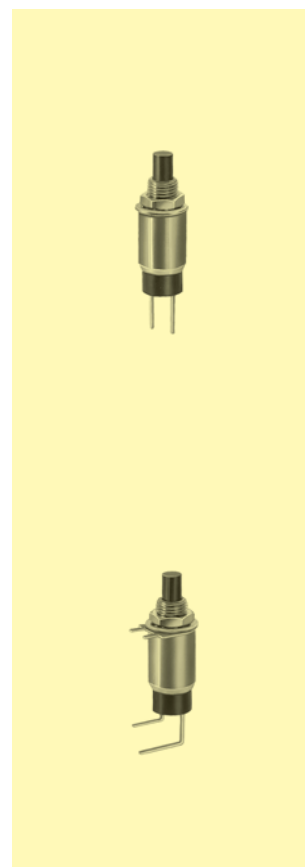
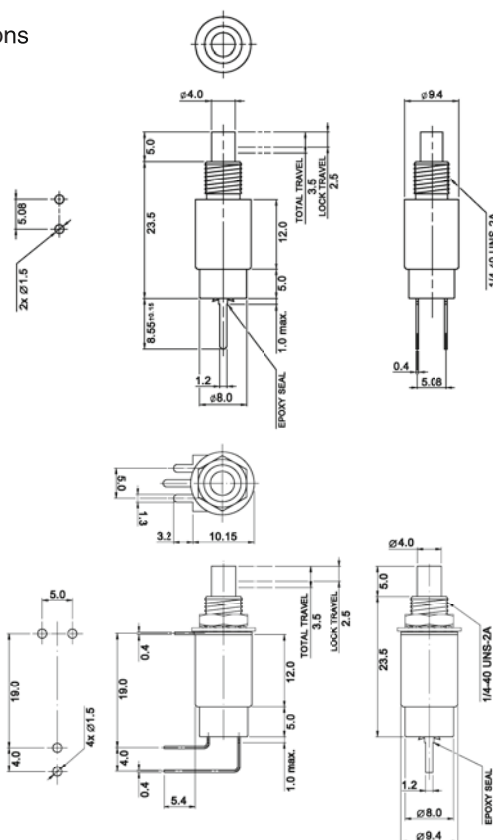
## Specifications:

|                        |  |
|------------------------|--|
| Contact rating:        | 250 V AC, 0,5 A / 120 V AC, 1 A<br>28 V DC, 1 A          |
| Contact resistance:    | < 30 mΩ  |
| Insulation resistance: | > 100 MΩ at 500 V DC                                     |
| Dielectric strength:   | 500 V, 50 Hz for the duration of 1 minute                |
| Operating temperature: | - 20° to + 70° C   |
| Mechanical life:       | more than 10 000 operations                              |
| Contacts:              | phosphor bronze, silver-plated                           |
| Terminals:             | PC terminals, brass silver-plated                        |
| Material:              | case: copper alloy, nickel-plated / POM<br>button: PA 66 |
| Mounting:              | single-hole mounting, Ø 6.35 mm<br>or on pc-board        |
| Soldering conditions:  | auto-soldering – 5 sec ± 0,5 sec, 260° C                 |

## Models:                      Switching functions

SPST  
MSP 101 A                      on – off

SPST  
MSP 101 A – RA              on – off





# Miniature Pushbutton Switches

## Specifications:

|                        |   |
|------------------------|---|
| Contact rating:        | 30 V DC, 650 mA                             |
| Contact resistance:    | < 20 mΩ                                     |
| Insulation resistance: | > 500 MΩ at 500 V DC                        |
| Dielectric strength:   | 500 V, 50 Hz for the duration of 1 minute   |
| Operating temperature: | - 20° to + 60° C                            |
| Mechanical life:       | minimum 20 000 operations                   |
| Contacts:              | brass, silver-plated                        |
| Terminals:             | solder tags                                 |
| Material:              | phenolformaldehyde, black                   |
| Mounting:              | single-hole                                 |
| Soldering conditions:  | hand-soldering – max.: 3 sec, 260° C ± 5° C |

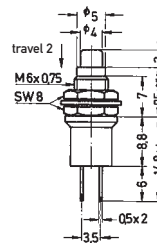
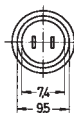
3

## Models:

## Contact arrangement

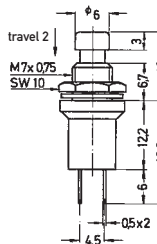
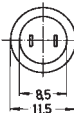
MSP 101 C  
button colour: red

normally open



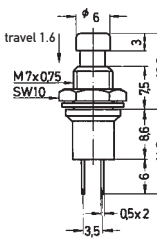
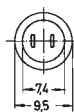
MSP 121 B  
button colour: black  
red

normally closed



MSP 121 C  
button colour: black  
red

normally open



MSP 131 C  
button colour: black

normally open

