

D3 MINIATURE SWITCH

D3 miniature switch

Standard switch proven millions of times over, extremely frictional, self-cleaning contacts. Version with contact gap > 3 mm on an identical basis.

- Flexible thanks to various auxiliary actuators and various mounting points
- Wide variety of terminal points
- Approved according to EN 61058 and UL 1054



Technical specifications

| | |
|-------------------------------------|---|
| Series | D3 |
| Contact configuration | S.P.S.T.-N.O., S.P.S.T.-N.C., S.P.D.T. (see table) |
| Contact gap | > 3 mm |
| Switching voltage | 250 VAC |
| Switching current max. | 10 A (> 3 mm) |
| Total travel | 2.6 mm without auxiliary actuator |
| Mechanical life | 1 x 10 ⁶ operations |
| Electrical life at max. load | 50,000 switching cycles acc. to EN 61058-1 10,000 switching cycles acc. to UL 1054 |
| Ambient temperature | 40T85 |
| Proof tracking index | PTI 250 |

Material

| | |
|---------------------------|--|
| Housing/cover | PET (UL 94V-0) |
| Actuator | POM |
| Contact materials | AgNi |
| Terminals | Cu/CuZn |
| Auxiliary actuator | Nickel-plated steel, alternative stainless steel |
| Approvals | |

Circuitry

| Circuitry | | Code |
|---------------|--------------------|------|
| S.P.S.T.-N.O. | (only D3F and D36) | 4 |
| S.P.S.T.-N.C. | (only D3B) | 5 |
| S.P.D.T. | (only D3B) | 6 |

Terminal type

| Terminal type | Code |
|---------------------------------------|------|
| Q.C. terminal 6.8 x 0.8 mm, straight | V1 |
| Q.C. terminal 6.8 x 0.8 mm, dog leg | V3 |
| Q.C. terminal 4.8 x 0.8 mm, straight | Q1 |
| Q.C. terminal 4.8 x 0.8 mm, dog leg | Q3 |
| Solder terminal with temperature stop | S8 |

Auxiliary actuator

| Model | Mounting point | Length | Code | Code |
|----------------------------|----------------|--------|---------------------|--------------------------|
| Without auxiliary actuator | | | AA | |
| Material | | | Nickel-plated steel | Optional stainless steel |
| Straight | RM rear | 21.2 | LA | JA |
| | | 35.6 | LD | JD |
| | FM front | 69.9 | LL | JL |
| | | 25.7 | MA | KA |
| Roller | RM rear | 40.1 | MD | KD |
| | | 74.4 | ML | KL |
| | FM front | 20.6 | RA | TA |
| | | 34.1 | RD | TD |
| Simulated roller | RM rear | 25.1 | SA | UA |
| | FM front | 25.1 | UA | |

Generation of order code (example)
The order code consists of 5 parameters:

| 1 | 2 | 3 | 4 | 5 |
|---------------------------------|-------------------------------|-----------------------------|---|---|
| Series | Electrical rating | Circuitry | Terminal type | Auxiliary actuator |
| D3 = Miniature switch | 6 = 4(3) A, 250 VAC | 2 = S.P.S.T.-N.C. | Q1 = Q.C. terminal, straight 4.8 x 0.8 mm | MA = Straight, FM front, 25.7 |

- Not every configurable variant is available for order. Please contact us.
- The final two digits of article numbers on commercial documents refer to the index of the respective drawing.
- Customer-specific models are marked with a G or W as the sixth digit of the article number.

Electrical rating and variants

| Electrical rating according to | Availability | Housing mark | Code |
|--------------------------------|-------------------|---|------|
| EN 61058 | UL 1054 | S.P.S.T.-N.O. S.P.S.T.-N.C. S.P.D.T. | |
| 4(3) A, 250 VAC | 4 A, 125-250 VAC | Yes - - | D3 6 |
| 8(8) A, 250 VAC | 10 A, 125-250 VAC | - Yes Yes | D3 B |
| 10(10) A, 250 VAC | 10 A, 125-250 VAC | Yes - - | D3 F |

Additional breaking capacities on request

Switching parameters

| Model | Operating force max. (cN) | Max. pretravel (mm) | Min. overtravel (mm) | Max. Differential travel (mm) | Max. rest position (mm) | Operating point (mm) |
|----------------------------|---------------------------|---------------------|----------------------|-------------------------------|-------------------------|----------------------|
| Without auxiliary actuator | 500 | 1.9 | 0.7 | 1.2 | 16.0 | 14.4 ± 0.5 |



Terminals

