

# Subminiature Toggle Switches



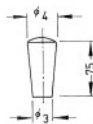
2

## Specifications:

|                        |                                                                          |
|------------------------|--------------------------------------------------------------------------|
| Contact rating:        | max. 48 V AC/DC, 0,4 VA / max. 50 mA<br>min. 20 mV AC/DC, 1 µA           |
| Contact resistance:    | < 50 mΩ                                                                  |
| Insulation resistance: | > 500 MΩ at 250 V DC                                                     |
| Dielectric strength:   | 500 V, 50 Hz for the duration of 1 minute                                |
| Temperature range:     | – 20° to + 80° C                                                         |
| Mechanical life:       | minimum 60 000 operations                                                |
| Contacts:              | phosphor bronze gold-plated over nickel barrier                          |
| Terminals:             | PC terminals, crimped<br>phosphor bronze tin-plated over nickel barrier  |
| Material:              | case: PBT, meets UL 94 V–0, washable<br>metal parts: nickel-plated brass |
| Mounting:              | on pc-board                                                              |
| Soldering conditions:  | auto-soldering – max.: 3 sec, 245° C ± 10° C                             |

## Accessories:

| Plastic caps | Order number |
|--------------|--------------|
| black        | C 3105       |
| green        | C 3106       |
| grey         | C 3107       |
| yellow       | C 3108       |
| red          | C 3109       |
| white        | C 3110       |



Supporting bracket for

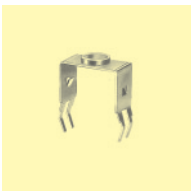
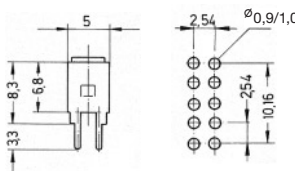
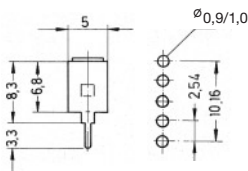
ATE 1.

ATE 2.

Order number

AZ 0001

AZ 0005



## Models:

Switching functions:

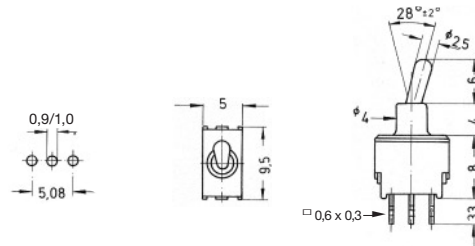
Switching functions F/H/R/T:

the closed contacts are opposite to the lever position;  
when looking at the brand name on the right hand side

washable

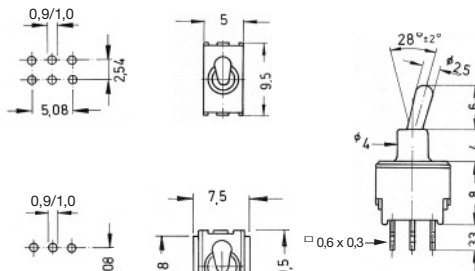
### SPDT

|         |     |     |     |
|---------|-----|-----|-----|
| ATE 1 D | on  | -   | on  |
| ATE 1 E | on  | off | on  |
| ATE 1 F | mom | -   | on  |
| ATE 1 G | mom | off | mom |
| ATE 1 H | mom | off | on  |



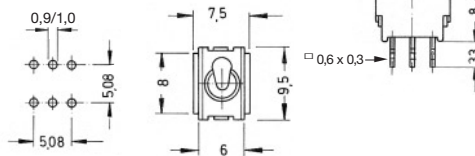
### DPDT

|         |     |     |     |
|---------|-----|-----|-----|
| ATE 2 D | on  | -   | on  |
| ATE 2 E | on  | off | on  |
| ATE 2 F | mom | -   | on  |
| ATE 2 G | mom | off | mom |
| ATE 2 H | mom | off | on  |



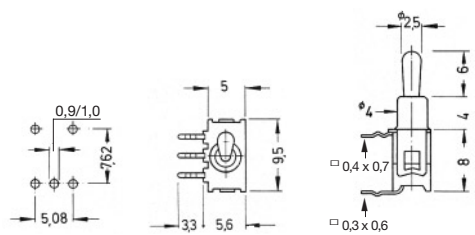
### DPDT

|          |     |     |     |
|----------|-----|-----|-----|
| ATE 2 N  | on  | -   | on  |
| ATE 2 P* | on  | off | on  |
| ATE 2 R* | mom | -   | on  |
| ATE 2 S* | mom | off | mom |
| ATE 2 T* | mom | off | on  |



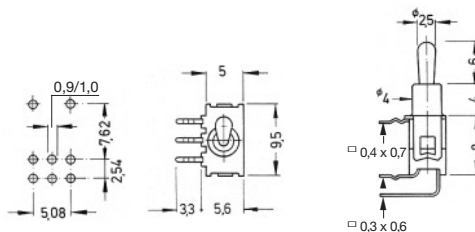
### SPDT

|              |     |     |     |
|--------------|-----|-----|-----|
| ATE 1 D - RA | on  | -   | on  |
| ATE 1 E - RA | on  | off | on  |
| ATE 1 F - RA | mom | -   | on  |
| ATE 1 G - RA | mom | off | mom |
| ATE 1 H - RA | mom | off | on  |



### DPDT

|              |     |     |     |
|--------------|-----|-----|-----|
| ATE 2 D - RA | on  | -   | on  |
| ATE 2 E - RA | on  | off | on  |
| ATE 2 F - RA | mom | -   | on  |
| ATE 2 G - RA | mom | off | mom |
| ATE 2 H - RA | mom | off | on  |



Special versions see page 26.

\* Non-stock item; minimum quantity and delivery time on request.



Specifications: see page 24.

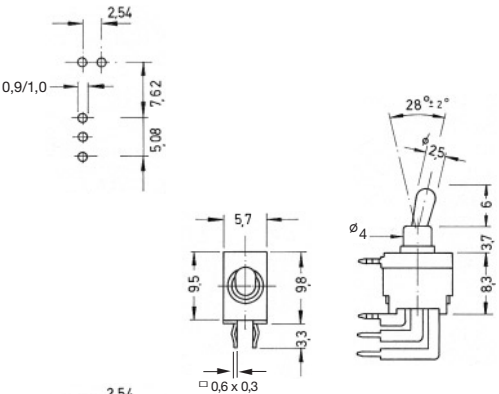
**Models:** Switching functions the closed contacts are opposite to the lever position;  
Switching functions F/H: when looking at the brand name on the right hand side.

washable

2

S P D T

|               |     |     |     |
|---------------|-----|-----|-----|
| ATE 1 D – VM  | on  | –   | on  |
| ATE 1 E – VM  | on  | off | on  |
| ATE 1 F – VM* | mom | –   | on  |
| ATE 1 G – VM* | mom | off | mom |
| ATE 1 H – VM* | mom | off | on  |



D P D T

|               |     |     |     |
|---------------|-----|-----|-----|
| ATE 2 D – VM  | on  | –   | on  |
| ATE 2 E – VM  | on  | off | on  |
| ATE 2 F – VM* | mom | –   | on  |
| ATE 2 G – VM* | mom | off | mom |
| ATE 2 H – VM* | mom | off | on  |



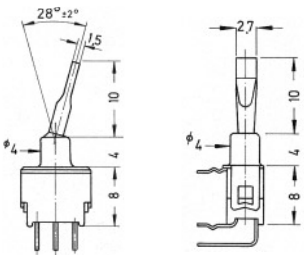
Accessories: see page 24.

Special versions\*:

long flat lever

Additional to type number: F

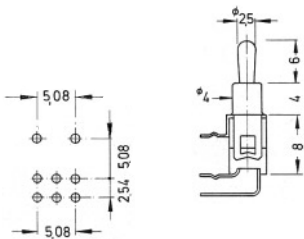
Example of order: ATEF 2D – RA



Spacing 5,08 mm

Additional to type number: – 1

Example of order: ATE 2E – RA-1



\* Non-stock item; minimum quantity and delivery time on request