

# PCB Tension Spring Terminal

## 5.00 mm Pin Spacing

- Tension Spring Technology
- Modular
- Various Colors
- Standard Color: Gray



### AK3100/xx-5.0

WITHOUT LEVER

### AK3101/xxKD-5.0

WITH GROOVED PUSH-LEVER

#### Electrical Ratings

|               |          | UL E178356 |   | IEC      | VDE                                    |
|---------------|----------|------------|---|----------|----------------------------------------|
| Usergroup     |          | B          | C | D        | —                                      |
|               |          | 300V       | — | 300V     | 250V                                   |
| Rated Current |          | 16A        | — | 10A      | 24A                                    |
| Wire Size     | solid    | 28-14AWG   | — | 28-14AWG | 0.5mm <sup>2</sup> -2.5mm <sup>2</sup> |
|               | stranded | 28-14AWG   | — | 28-14AWG | 0.5mm <sup>2</sup> -2.5mm <sup>2</sup> |

#### Ordering Information

#### Without Lever

#### With Grooved Lever

| No. Poles | Length (mm) | Std. Pack | Order # | Type #        | Order # | Type #          |
|-----------|-------------|-----------|---------|---------------|---------|-----------------|
| 1         | 7.20        | 100       | 38.2501 | AK3100/1-5.0  | 38.2601 | AK3101/1KD-5.0  |
| 2         | 12.20       | 100       | 38.2502 | AK3100/2-5.0  | 38.2602 | AK3101/2KD-5.0  |
| 3         | 17.20       | 100       | 38.2503 | AK3100/3-5.0  | 38.2603 | AK3101/3KD-5.0  |
| 4         | 22.20       | 50        | 38.2504 | AK3100/4-5.0  | 38.2604 | AK3101/4KD-5.0  |
| 5         | 27.20       | 50        | 38.2505 | AK3100/5-5.0  | 38.2605 | AK3101/5KD-5.0  |
| 6         | 32.20       | 50        | 38.2506 | AK3100/6-5.0  | 38.2606 | AK3101/6KD-5.0  |
| 7         | 37.20       | 50        | 38.2507 | AK3100/7-5.0  | 38.2607 | AK3101/7KD-5.0  |
| 8         | 42.20       | 50        | 38.2508 | AK3100/8-5.0  | 38.2608 | AK3101/8KD-5.0  |
| 9         | 47.20       | 50        | 38.2509 | AK3100/9-5.0  | 38.2609 | AK3101/9KD-5.0  |
| 10        | 52.20       | 50        | 38.2510 | AK3100/10-5.0 | 38.2610 | AK3101/10KD-5.0 |
| 11        | 57.20       | 50        | 38.2511 | AK3100/11-5.0 | 38.2611 | AK3101/11KD-5.0 |
| 12        | 62.20       | 50        | 38.2512 | AK3100/12-5.0 | 38.2612 | AK3101/12KD-5.0 |
| 13        | 67.20       | 20        | 38.2513 | AK3100/13-5.0 | 38.2613 | AK3101/13KD-5.0 |
| 14        | 72.20       | 20        | 38.2514 | AK3100/14-5.0 | 38.2614 | AK3101/14KD-5.0 |
| 15        | 77.20       | 20        | 38.2515 | AK3100/15-5.0 | 38.2615 | AK3101/15KD-5.0 |
| 16        | 82.20       | 20        | 38.2516 | AK3100/16-5.0 | 38.2616 | AK3101/16KD-5.0 |
| 17        | 87.20       | 20        | 38.2517 | AK3100/18-5.0 | 38.2617 | AK3101/17KD-5.0 |
| 18        | 92.20       | 20        | 38.2518 | AK3100/18-5.0 | 38.2618 | AK3101/18KD-5.0 |
| 19        | 97.20       | 20        | 38.2519 | AK3100/19-5.0 | 38.2619 | AK3101/19KD-5.0 |
| 20        | 102.20      | 10        | 38.2520 | AK3100/20-5.0 | 38.2620 | AK3101/20KD-5.0 |
| 21        | 107.20      | 10        | 38.2521 | AK3100/21-5.0 | 38.2621 | AK3101/21KD-5.0 |
| 22        | 112.20      | 10        | 38.2522 | AK3100/22-5.0 | 38.2622 | AK3101/22KD-5.0 |
| 23        | 117.20      | 10        | 38.2523 | AK3100/23-5.0 | 38.2623 | AK3101/23KD-5.0 |
| 24        | 122.20      | 10        | 38.2524 | AK3100/24-5.0 | 38.2624 | AK3101/24KD-5.0 |

#### Material Specifications

|                       |                 |
|-----------------------|-----------------|
| Tension Spring        | Stainless Steel |
| Solder Tab            | Copper Alloy    |
| Insulating Material   | PA 6.6          |
| Flammability Class    | UL94V-0         |
| Operating Temperature | -30°C - +105°C  |

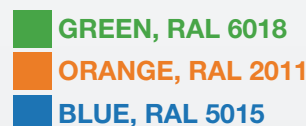
#### Wave Solder Process

|                       |       |
|-----------------------|-------|
| Soldering Temperature | 265°C |
| Peak Soldering Time   | 3-10s |

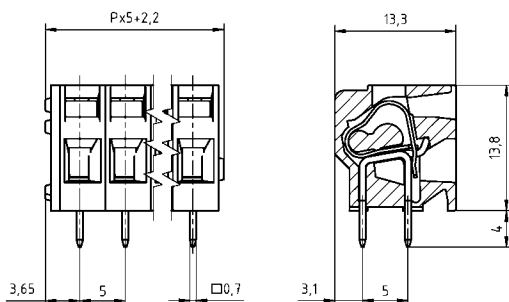
#### Installation Data

|                  |       |
|------------------|-------|
| Stripping Length | 6mm   |
| PCB Hole Size    | 1.1mm |

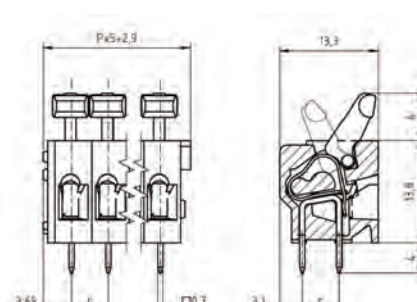
#### Other Colors Available



#### Dimensions (mm) - without lever



#### Dimensions (mm) - with grooved push-lever



# PCB Tension Spring Terminal

## 5.00 mm Pin Spacing

- Tension Spring Technology
- Modular
- Various Colors
- Standard Color: Gray



With Angled  
Push-Lever

**AK3101/xxWD-5.0**  
WITH ANGLED PUSH-LEVER

### Electrical Ratings

|               |                 | UL E178356 |          | IEC                                    | VDE |
|---------------|-----------------|------------|----------|----------------------------------------|-----|
| Usergroup     | B               | C          | D        | —                                      |     |
|               | 300V            | —          | 300V     | 250V                                   |     |
| Rated Current | 16A             | —          | 10A      | 24A                                    |     |
| Wire Size     | <i>solid</i>    | 28-14AWG   | 28-14AWG | 0.5mm <sup>2</sup> -2.5mm <sup>2</sup> |     |
|               | <i>stranded</i> | 28-14AWG   | 28-14AWG | 0.5mm <sup>2</sup> -2.5mm <sup>2</sup> |     |

### Ordering Information

### With Angled Lever

| No. Poles | Length (mm) | Std. Pack | Order #        | Type #          |
|-----------|-------------|-----------|----------------|-----------------|
| 1         | 7.20        | 100       | <b>38.2701</b> | AK3101/1WD-5.0  |
| 2         | 12.20       | 100       | <b>38.2702</b> | AK3101/2WD-5.0  |
| 3         | 17.20       | 100       | <b>38.2703</b> | AK3101/3KD-5.0  |
| 4         | 22.20       | 50        | <b>38.2704</b> | AK3101/4KD-5.0  |
| 5         | 27.20       | 50        | <b>38.2705</b> | AK3101/5KD-5.0  |
| 6         | 32.20       | 50        | <b>38.2706</b> | AK3101/6KD-5.0  |
| 7         | 37.20       | 50        | <b>38.2707</b> | AK3101/7KD-5.0  |
| 8         | 42.20       | 50        | <b>38.2708</b> | AK3101/8KD-5.0  |
| 9         | 47.20       | 50        | <b>38.2709</b> | AK3101/9KD-5.0  |
| 10        | 52.20       | 50        | <b>38.2710</b> | AK3101/10KD-5.0 |
| 11        | 57.20       | 50        | <b>38.2711</b> | AK3101/11KD-5.0 |
| 12        | 62.20       | 50        | <b>38.2712</b> | AK3101/12KD-5.0 |
| 13        | 67.20       | 20        | <b>38.2713</b> | AK3101/13KD-5.0 |
| 14        | 72.20       | 20        | <b>38.2714</b> | AK3101/14KD-5.0 |
| 15        | 77.20       | 20        | <b>38.2715</b> | AK3101/15KD-5.0 |
| 16        | 82.20       | 20        | <b>38.2716</b> | AK3101/16KD-5.0 |
| 17        | 87.20       | 20        | <b>38.2717</b> | AK3101/17KD-5.0 |
| 18        | 92.20       | 20        | <b>38.2718</b> | AK3101/18KD-5.0 |
| 19        | 97.20       | 20        | <b>38.2719</b> | AK3101/19KD-5.0 |
| 20        | 102.20      | 10        | <b>38.2720</b> | AK3101/20KD-5.0 |
| 21        | 107.20      | 10        | <b>38.2721</b> | AK3101/21KD-5.0 |
| 22        | 112.20      | 10        | <b>38.2722</b> | AK3101/22KD-5.0 |
| 23        | 117.20      | 10        | <b>38.2723</b> | AK3101/23KD-5.0 |
| 24        | 122.20      | 10        | <b>38.2724</b> | AK3101/24KD-5.0 |

### Material Specifications

|                       |                 |
|-----------------------|-----------------|
| Tension Spring        | Stainless Steel |
| Solder Tab            | Copper Alloy    |
| Insulating Material   | PA 6.6          |
| Flammability Class    | UL94V-0         |
| Operating Temperature | -30°C - +105°C  |

### Wave Solder Process

|                       |       |
|-----------------------|-------|
| Soldering Temperature | 265°C |
| Peak Soldering Time   | 3-10s |

### Installation Data

|                  |       |
|------------------|-------|
| Stripping Length | 6mm   |
| PCB Hole Size    | 1.1mm |

### Other Colors Available

- GREEN, RAL 6018
- ORANGE, RAL 2011
- BLUE, RAL 5015

### Dimensions (mm) - with flat push-lever

