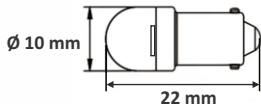
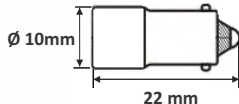
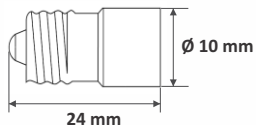


Ultra Bright  
LED's

| Illustration                                                                                                                                 | Rated Voltage     | Current Rating | Base Shape | LED Colour     | Part Number             |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------|------------|----------------|-------------------------|
| <b>BA9S LED Bulb, Ø 10mm, multi-chip</b>                                                                                                     |                   |                |            |                |                         |
|  <p>Fig. 1 - 90T-BA9S LED's Dome</p>                        | <b>24V AC/DC</b>  | 8 mA           | BA9S base  | ● Ultra Red    | <b>90T-BA9S-24-R</b>    |
|                                                                                                                                              |                   | 7 mA           |            | ● Green        | <b>90T-BA9S-24-G</b>    |
|                                                                                                                                              |                   | 8 mA           |            | ● Ultra Yellow | <b>90T-BA9S-24-Y</b>    |
|                                                                                                                                              |                   | 7 mA           |            | ● Blue         | <b>90T-BA9S-24-B</b>    |
|                                                                                                                                              |                   | 7 mA           |            | ○ Clear        | <b>90T-BA9S-24-W</b>    |
| <p><b>Dimension Diagram:</b></p>  <p>Ø 10 mm      22 mm</p> | <b>115V AC/DC</b> | 4.56 mA        | BA9S base  | ● Ultra Red    | <b>90T-BA9S-115AC-R</b> |
|                                                                                                                                              |                   | 4.5 mA         |            | ● Green        | <b>90T-BA9S-115AC-G</b> |
|                                                                                                                                              |                   | 4.55 mA        |            | ● Ultra Yellow | <b>90T-BA9S-115AC-Y</b> |
|                                                                                                                                              |                   | 4.46 mA        |            | ● Blue         | <b>90T-BA9S-115AC-B</b> |
|                                                                                                                                              |                   | 4.5 mA         |            | ○ Clear        | <b>90T-BA9S-115AC-W</b> |
|  <p>Fig. 2 - 90T BA9S-24-RG Flat</p>                        | <b>230V AC/DC</b> | 3.4 mA         | BA9S base  | ● Ultra Red    | <b>90T-BA9S-220AC-R</b> |
|                                                                                                                                              |                   | 3.4 mA         |            | ● Green        | <b>90T-BA9S-220AC-G</b> |
|                                                                                                                                              |                   | 3.4 mA         |            | ● Ultra Yellow | <b>90T-BA9S-220AC-Y</b> |
|                                                                                                                                              |                   | 3.4 mA         |            | ● Blue         | <b>90T-BA9S-220AC-B</b> |
|                                                                                                                                              |                   | 3.38 mA        |            | ○ Clear        | <b>90T-BA9S-220AC-W</b> |
| <p><b>Dimension Diagram:</b></p>  <p>Ø 10mm      22 mm</p> | <b>24V AC/DC</b>  | 8 mA           | BA9S base  | ● Red+Green    | <b>90T-BA9S-24-RG</b>   |

|                                                                                                                                            |               |       |               |             |                       |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------|---------------|-------------|-----------------------|
| <b>T5 Wedge 2x4.6d LED Bulb, multi-chip</b>                                                                                                |               |       |               |             |                       |
|                                                         | <b>24V DC</b> | 10 mA | T5 Wedge base | ● Red       | <b>90T-WB10-24-R</b>  |
|                                                                                                                                            |               | 9 mA  |               | ● Green     | <b>90T-WB10-24-G</b>  |
|                                                                                                                                            |               | 9 mA  |               | ● Yellow    | <b>90T-WB10-24-Y</b>  |
|                                                                                                                                            |               | 9 mA  |               | ● Blue      | <b>90T-WB10-24-B</b>  |
|                                                                                                                                            |               | 9 mA  |               | ○ Clear     | <b>90T-WB10-24-W</b>  |
| <p><b>Dimension Diagram:</b></p>  <p>17 mm<br/>5 mm</p> | <b>24V DC</b> | 10 mA | T5 Wedge base | ● Red+Green | <b>90T-WB10-24-RG</b> |

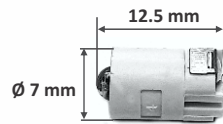
|                                                                                     |               |       |            |          |                       |
|-------------------------------------------------------------------------------------|---------------|-------|------------|----------|-----------------------|
| <b>T5.5K LED Bulb, Ø 6mm, multi-chip</b>                                            |               |       |            |          |                       |
|  | <b>24V DC</b> | 15 mA | Slide base | ● Red    | <b>9NF T55KO-R-24</b> |
|                                                                                     |               |       |            | ● Green  | <b>9NF T55KO-G-24</b> |
|                                                                                     |               |       |            | ● Yellow | <b>9NF T55KO-Y-24</b> |
|                                                                                     |               |       |            | ● Blue   | <b>9NF T55KO-B-24</b> |
|                                                                                     |               |       |            | ○ White  | <b>9NF T55KO-W-24</b> |
| <b>Dimension Diagram:</b>                                                           |               |       |            |          |                       |
|  |               |       |            |          |                       |

| Illustration                                                                      | Rated Voltage         | Current Rating | Base Shape | LED Colour     | Part Number          |
|-----------------------------------------------------------------------------------|-----------------------|----------------|------------|----------------|----------------------|
| <b>E10 LED Bulb, Ø 10mm, multi-chip</b>                                           |                       |                |            |                |                      |
|  | <b>24V<br/>AC/DC</b>  | 15 mA          | E10 base   | ● Ultra Red    | <b>9ML-E10-24-R</b>  |
|                                                                                   |                       |                |            | ● Pure Green   | <b>9ML-E10-24-G</b>  |
|                                                                                   |                       |                |            | ● Ultra Yellow | <b>9ML-E10-24-Y</b>  |
|                                                                                   |                       |                |            | ● Orange       | <b>9ML-E10-24-O</b>  |
|                                                                                   |                       |                |            | ● Blue         | <b>9ML-E10-24-B</b>  |
| <b>Dimension Diagram:</b>                                                         |                       |                |            |                |                      |
|  | <b>110V<br/>AC/DC</b> | 6.5 mA         | E10 base   | ● Ultra Red    | <b>9ML-E10-110-R</b> |
|                                                                                   |                       |                |            | ● Pure Green   | <b>9ML-E10-110-G</b> |
|                                                                                   |                       |                |            | ● Ultra Yellow | <b>9ML-E10-110-Y</b> |
|                                                                                   |                       |                |            | ● Orange       | <b>9ML-E10-110-O</b> |
|                                                                                   |                       |                |            | ● Blue         | <b>9ML-E10-110-B</b> |

S14 LED Bulb, Ø 7mm



Dimension Diagram:



\*Available voltage upon request: 6V and 12V

|               |        |          |          |                   |
|---------------|--------|----------|----------|-------------------|
| 24V<br>AC/DC  | 6 mA   | S14 base | ● Red    | 90P1-S14-S1A-R24  |
|               |        |          | ● Green  | 90P1-S14-S1A-G24  |
|               |        |          | ● Yellow | 90P1-S14-S1A-Y24  |
|               |        |          | ● Blue   | 90P1-S14-S1A-B24  |
|               |        |          | ○ Clear  | 90P1-S14-S1A-W24  |
| 110V<br>AC/DC | 2 mA   | S14 base | ● Red    | 90P1-S14-S1A-R110 |
|               |        |          | ● Green  | 90P1-S14-S1A-G110 |
|               |        |          | ● Yellow | 90P1-S14-S1A-Y110 |
|               |        |          | ● Blue   | 90P1-S14-S1A-B110 |
|               |        |          | ○ Clear  | 90P1-S14-S1A-W110 |
| 220V<br>AC/DC | 1.5 mA | S14 base | ● Red    | 90P1-S14-S1A-R220 |
|               |        |          | ● Green  | 90P1-S14-S1A-G220 |
|               |        |          | ● Yellow | 90P1-S14-S1A-Y220 |
|               |        |          | ● Blue   | 90P1-S14-S1A-B220 |
|               |        |          | ○ Clear  | 90P1-S14-S1A-W220 |

## Suitable LED Bulb for Control Units

| BA9S LED's                                                                          | BA9S LED's                                                                          | Wedge 2x4.6 / T5 LED's                                                              | T5.5 LED's                                                                           | S14 LED's                                                                             |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  |  |  |  |  |
| <b>Rondex-Juwel Series</b>                                                          | <b>Kombitast-R-Juwel Series</b>                                                     | <b>Oktron-Juwel Series</b>                                                          | <b>Quartron-Juwel Series</b>                                                         | <b>16mm Secfetronik Control Units</b>                                                 |



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