

# Micro Switch Series

#### KLS7-KW3-OZ Micro Switch Series

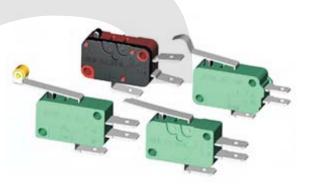
#### Features

Small contact clearance, high sensitivity Snap action, high precision and high repeat accuracy Flexible operating travel, wide range of operating force Wide variety of terminal types Wide variety of actuator forms Adopt flame-retarded and fiber enhanced thermoplastics Long life cycles, high reliability Various approvals

#### Application

Widely applied in home appliances, medical devices, office facility, instrument and apparatus, electric motion tools, packing machinery, auto electronics etc.

Examples: vending machines, gaming machines, coffee machines, dishwashers, dryers, washing machines, microwave ovens, Central water heating, vacuum cleaners, water pump, projecting apparatus, industrial automations etc.

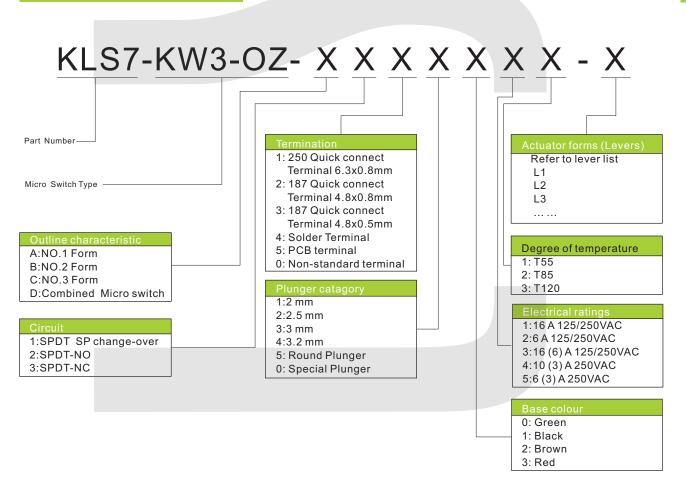


#### Specifications

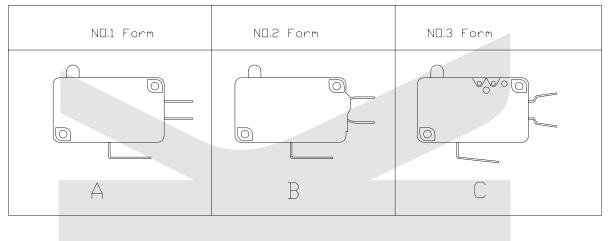
| ltems                                 |   | Value   |
|---------------------------------------|---|---|
| Operating speed                       |   | 0. 1mm~1m/S   |
| Oneweting Every                       |   | Mechanical 60cycles/min;  |
| Operating Frequ                       | ency  | Electrical 25cycles/min   |
| Insulation resi                       | stance  | $\geq$ 100M $\Omega$ (DC500V)   |
| Contact resista                       | nce   | $\leq$ 30m $\Omega$ (Initial value)   |
|                                       | Between terminals<br>of same polarity                           | AC1500V 50/60HZ   |
| Test voltage                          | Between current-<br>carrying metal<br>parts and<br>ground(case) | AC3750V 50/60HZ   |
| Vibration resis                       | tance   | 10~55 HZ 1.5mm Double amplitude   |
| Shock resistance                      |   | Destruction:         OF>0.5N:         1000m/S2 (approx.100G) Max           0F≤0.5N:         400m/S2 (approx.40G) Max           Malfunction:         0F>0.5N:         200m/S2 (approx.20G) Max |
| Life expectancy                       |   | OF≤0.5N: 100m/S2 (approx.10G) Max<br>Mechanical≥2000000cycles<br>Electrical≥50000cycles   |
| Degree of protection against electric |   | Class I /Class II   |
| PTI                                   |   | 175   |
| Approvals                             |   | UL CUL VDE TUV CE DEMKO CQC   |

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# ORDER INFORMATION



# Outline Charateristic



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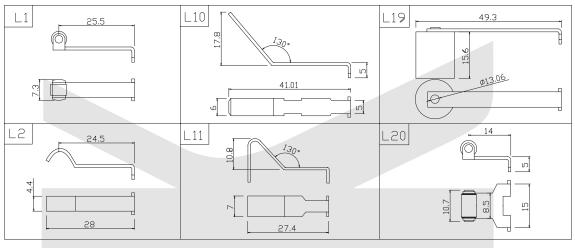
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#### Circuit Illustration SPDT SPST-ND 2 SPST-NC 3 1 -NC -NC Bottom common -ND -ND 0 0terminal -СОМ -СОМ -СОМ $\cap$ -NC -NC Side common 0--ND 0--ND terminal -СОМ -СОМ -СОМ

#### Termination 250 standard terminal 250 standard terminal 4.8×0.8 250 standard terminal 6.3×0.8 4.8×0.5 6.3 4,8 8 0 Ø Ø 9 0.0 8 00 7.4 00 $\langle \rangle$ 1 -2 3 0.5

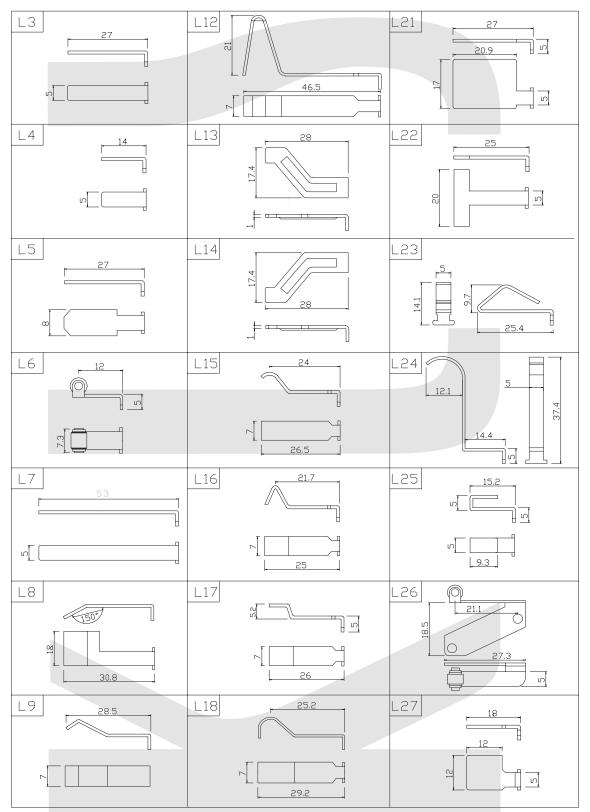
# Actuator Forms(Levers)











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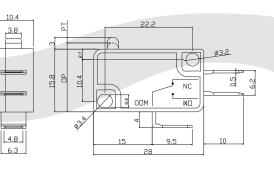
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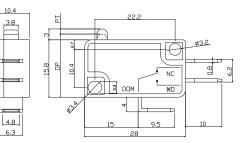
KLS7-KW3-0Z-A133013L



|    | Model   | KLS7-KW3-DZ-A133013L |
|----|---------|----------------------|
| DF | (N)     | 0.3~4.5              |
| MD | Max(mm) | 0.2                  |
| PT | Max(mm) | 2.3                  |
| ۵P | Min(mm) | 16.5                 |
|    |         |                      |



KLS7-KW3-0Z-A123013L



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| Model      | KLS7-KW3-0Z-A123013L |
|------------|----------------------|
| OF (N)     | 0.3~4.5              |
| MD Max(mm) | 0.2                  |
| PT Max(mm) | 2.3                  |
| OP Min(mm) | 16.5                 |

Model

Max(mm)

Min(mm)

DF (N)

РT

ΠP

MD Max(mm)

KLS7-KW3-0Z-A113013L

0.3~4.5

0.2

2.3

16.5

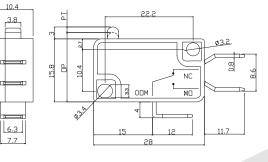
KLS7-KW3-0Z-A113013L



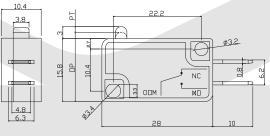


KLS7-KW3-0Z-A113013





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| Model      | KLS7-KW3-0Z-A113013 |
|------------|---------------------|
| OF (N)     | 0.3~4.5             |
| MD Max(mm) | 0.2                 |
| PT Max(mm) | 2.3                 |
| OP Min(mm) | 16.5                |
|            |                     |

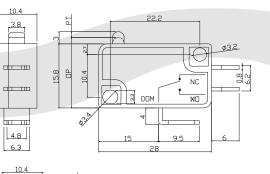
|    | Model   | KLS7-KW3-0Z-A223013L |
|----|---------|----------------------|
| OF | (N)     | 0.3~4.5              |
| MD | Max(mm) | 0.2                  |
| PT | Max(mm) | 2.3                  |
| DP | Min(mm) | 16.5                 |
|    |         |                      |

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## KLS7-KW3-OZ Micro Switch Series





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NC

MD

|    | Model   | KLS7-KW3-0Z-A143013L |
|----|---------|----------------------|
| OF | (N)     | 0.3~4.5              |
| MD | Max(mm) | 0.2                  |
| PT | Max(mm) | 2.3                  |
| DP | Min(mm) | 16.5                 |



KLS7-KW3-0Z-A103013L



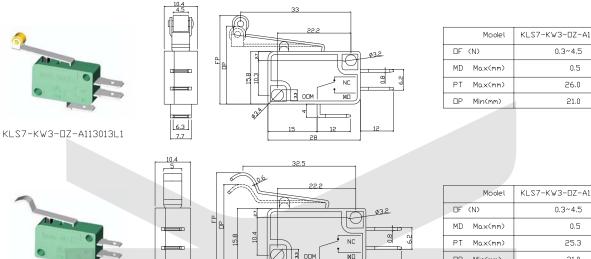
KLS7-KW3-0Z-A103013L9

KLS7-KW3-0Z-A123013L2

31.5 222 Ø3.2 0.8 0 2 0 NC Я ООМ MD 3 3 15 28

| Model      | KLS7-KW3-DZ-A103013L |
|------------|----------------------|
| DF (N)     | 0.3~4.5              |
| MD Ma×(mm) | 0.2                  |
| PT Max(mm) | 2.3                  |
| OP Min(mm) | 16.5                 |

|    | Model   | KLS7-KW3-0Z-A103013L9 |
|----|---------|-----------------------|
| ۵F | (N)     | 0.3~4.5               |
| MD | Max(mm) | 0.4                   |
| PT | Max(mm) | 25.3                  |
| ΩP | Min(mm) | 21.0                  |



KLS7-KW3-0Z-A113013L1

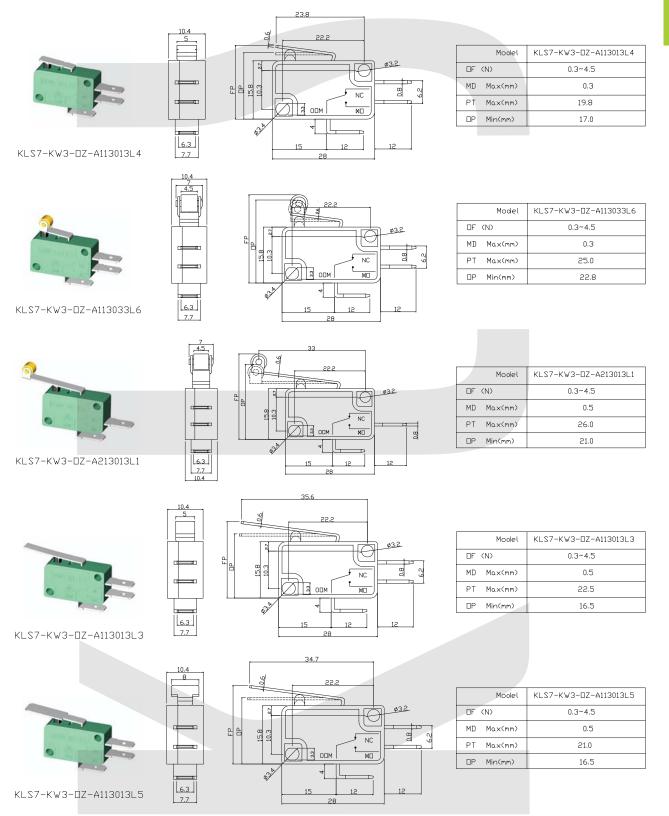
| Mode       | KLS7-KW3-DZ-A123013L2 |
|------------|-----------------------|
| DF (N)     | 0.3~4.5               |
| MD Ma×(mm  | > 0.5                 |
| PT Max(mm  | > 25.3                |
| OP Min(mm) | 21.0                  |
|            |                       |

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# KLS7-KW3-OZ Micro Switch Series



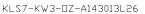
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# KLS7-KW3-OZ Micro Switch Series

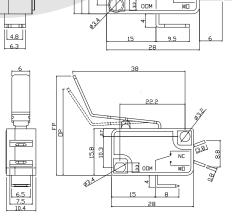
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| Model      | KLS7-KW3-DZ-A143013L26 |
|------------|------------------------|
| OF (N)     | 0.3~4.5                |
| MD Max(mm) | 0.3                    |
| PT Max(mm) | 25.0                   |
| OP Min(mm) | 22.0                   |
|            |                        |

| Model      | KLS7-KW3-0Z-A103013L10 |
|------------|------------------------|
| DF (N)     | 0.3~4.5                |
| MD Max(mm) | 0.8                    |
| PT Max(mm) | 38.0                   |
| OP Min(mm) | 22.8                   |



KLS7-KW3-0Z-A150013L

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|    | Model   | KLS7-KW3-0Z-A150013L |
|----|---------|----------------------|
| OF | (N)     | 0.3~4.5              |
| MD | Max(mm) | 0.2                  |
| PT | Max(mm) | 1.8                  |
| OP | Min(mm) | 19.5                 |

 Model
 KLS7-KW3-DZ-A113013L7

 DF (N)
 0.3~4.5

 MD
 Max(mm)

 PT
 Max(mm)

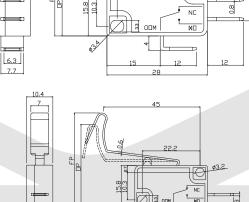
 DP
 Min(mm)

 14.3

| Model      | KLS7-KW3-0Z-A213013L12 |
|------------|------------------------|
| OF (N)     | 0.3~4.5                |
| MD Max(mm) | 1.0                    |
| PT Max(mm) | 44.6                   |
| OP Min(mm) | 38.0                   |
|            |                        |

KLS7-KW3-0Z-A113013L7





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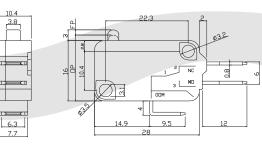
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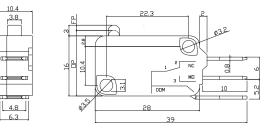




|    | Model   | KLS7-KW3-0Z-B133013L |
|----|---------|----------------------|
| OF | (N)     | 0.3~4.5              |
| MD | Max(mm) | 0.2                  |
| PT | Max(mm) | 2.0                  |
| DP | Min(mm) | 17.0                 |
|    |         |                      |

KLS7-KW3-DZ-B133013L





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| Model      | KLS7-KW3-0Z-B123013L |
|------------|----------------------|
| DF (N)     | 0.3~4.5              |
| MD Max(mm) | 0.2                  |
| PT Max(mm) | 2.0                  |
| OP Min(mm) | 17.0                 |

KLS7-KW3-0Z-B123013L



KLS7-KW3-DZ-B113013L1



KLS7-KW3-0Z-B123013L5



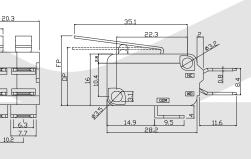
6.3 34.7 8.0 C=T== 0.4 80 ND 634A 9.5 14.9 4.8 6.3

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| Model      | KLS7-KW3-0Z-B113013L1 |
|------------|-----------------------|
| OF (N)     | 0.3~4.5               |
| MD Max(mm) | 0.3                   |
| PT Max(mm) | 26.0                  |
| OP Min(mm) | 21.0                  |

| KLS7-KW3-0Z-B123013L5 |
|-----------------------|
| 0.3~4.5               |
| 0.3                   |
| 21.0                  |
| 16.5                  |
|                       |

| Model      | KLS7-KW3-DZ-D113013L3 |
|------------|-----------------------|
| OF (N)     | 0.3~4.5               |
| MD Max(mm) | 0.8                   |
| PT Max(mm) | 24.5                  |
| OP Min(mm) | 21.0                  |
|            |                       |

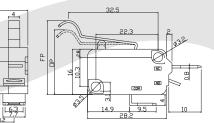
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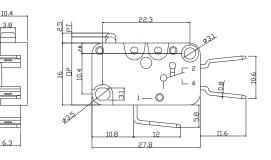


|    | Model   | KLS7-KW3-0Z-D203013L2 |
|----|---------|-----------------------|
| ۵F | (N)     | 0.3~4.5               |
| MD | Max(mm) | 0.8                   |
| PT | Max(mm) | 24.5                  |
| DP | Min(mm) | 21.0                  |
|    |         |                       |

KLS7-KW3-0Z-D203013L2



KLS7-KW3-0Z-C113233L

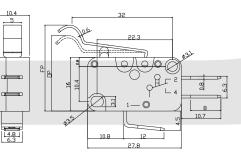


| Model      | KLS7-KW3-0Z-C113233L |
|------------|----------------------|
| OF (N)     | 0.3~4.5              |
| MD Max(mm) | 0.3                  |
| PT Max(mm) | 2.0                  |
| OP Min(mm) | 16.5                 |



KLS7-KW3-DZ-C123233L2

KLS7-KW3-DZ-C113233L6



|    | Model     | KLS7-KW3-0Z-C123233L2 |
|----|-----------|-----------------------|
| OF | · (N)     | 0.3~4.5               |
| MD | ) Max(mm) | 0.8                   |
| PT | ' Max(mm) | 24.2                  |
| OP | Min(mm)   | 20.0                  |

35.8 22.3 Model KLS7-KW3-0Z-C123233L3 7) 0.3~4.5 0  $\bigcirc$ TE (N) <u>م</u> 2 MD Max(mm) 0.5 10.4 0.8 С ΡT 20.0 Max(mm) ) न O ΠP Min(mm) 16.0 10. 637 4.8 10.8 12 KLS7-KW3-0Z-C123233L3 27.8 KLS7-KW3-DZ-C113233L6 Model 0.3~4.5 DF (N) Ę= MD Max(mm) 0.4 α РT Max(mm) 24.5 ļ 0 ΠP Min(mm) 22.5

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