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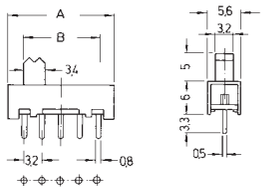
# Miniature Slide Switches

**Specifications:**

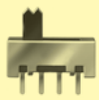
| | |
|---|---|
| Contact rating: | 30 V DC, 350 mA |
| Contact resistance: | < 20 mΩ |
| Insulation resistance: | > 100 MΩ at 500 V DC |
| Dielectric strength: | 500 V, 50 Hz for the duration of 1 minute |
| Operating temperature: | – 20° to + 85° C |
| Mechanical life: | minimum 10 000 operations |
| Contacts: | copper alloy, silver-plated over nickel barrier |
| Contact timing: | non-shorting |
| Slide colour: | black, further colours on request |
| Soldering conditions: | auto-soldering – max.: 3 sec, 260° C ± 5° C |



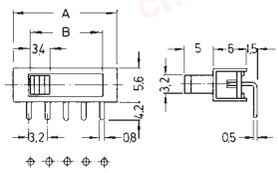
| **Models:** | Operating positions | | Length (mm) A | B |
|---|---|---|---|---|
| MFP 120 | 2 |  | 11,0 | 6,6 |
| MFP 130 | 3 | | 15,0 | 10,0 |
| MFP 140 | 4 | | 18,2 | 13,2 |
| MFP 150 | 5 | | 21,4 | 16,4 |




MFP 140

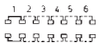


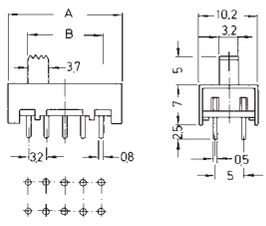
| | | | | |
|---|---|---|---|---|
| MFP 120 – R | 2 |  | 11,0 | 6,6 |
| MFP 130 – R | 3 | | 15,0 | 10,0 |
| MFP 140 – R | 4 | | 18,2 | 13,2 |
| MFP 150 – R | 5 | | 21,4 | 16,4 |



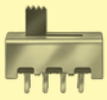

MFP 140 – R



| | | | | |
|---|---|---|---|---|
| MFP 220 | 2 |  | 13,6 | 6,9 |
| MFP 230 | 3 | | 16,8 | 10,1 |
| MFP 240 | 4 | | 20,0 | 13,3 |
| MFP 250 | 5 | | 23,2 | 16,5 |
| MFP 260 | 6 | | 26,4 | 19,7 |




MFP 240



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# Miniature Slide Switches

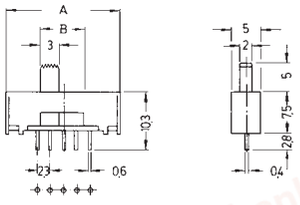
**Specifications:**

| | |
|---|---|
| Contact rating: | 30 V DC, 350 mA |
| Contact resistance: | < 25 mΩ |
| Insulation resistance: | > 100 MΩ at 500 V DC |
| Dielectric strength: | 500 V, 50 Hz for the duration of 1 minute |
| Operating temperature: | – 20° to + 85° C |
| Mechanical life: | minimum 10 000 operations |
| Contacts: | copper alloy, silver-plated over nickel barrier |
| Contact timing: | non-shorting |
| Slide colour: | black, further colours on request |
| Soldering conditions: | auto-soldering – max.: 10 sec, 260° C |

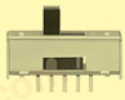


**Models:**

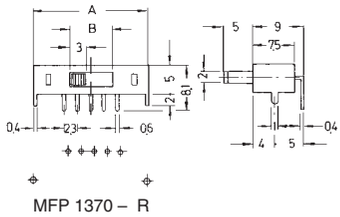
| | Operating positions | | Length (mm) A | B |
|---|---|---|---|---|
| MFP 1370 | 3 |  | 20,0 | 7,6 |
| MFP 1470 | 4 | | 20,0 | 9,9 |
| MFP 1570 | 5 | | 22,0 | 12,2 |




MFP 1370



| | | | | |
|---|---|---|---|---|
| MFP 1370 – R | 3 |  | 20,0 | 7,6 |
| MFP 1470 – R | 4 | | 20,0 | 9,9 |
| MFP 1570 – R | 5 | | 22,0 | 12,2 |




MFP 1370 – R



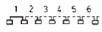
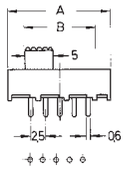
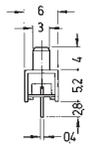
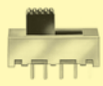
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# Miniature Slide Switches

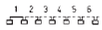
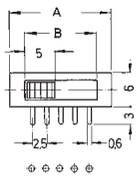
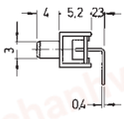
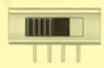
**Specifications:**

| | |
|---|---|
| Contact rating: | 30 V DC, 350 mA |
| Contact resistance: | < 20 mΩ |
| Insulation resistance: | > 100 MΩ at 500 V DC |
| Dielectric strength: | 500 V, 50 Hz for the duration of 1 minute |
| Operating temperature: | – 20° to + 85° C |
| Mechanical life: | minimum 10 000 operations |
| Contacts: | copper alloy, silver-plated over nickel barrier |
| Contact timing: | shorting (non-shorting only if specified) |
| Slide colour: | black, further colours on request |
| Soldering conditions: | auto-soldering – max.: 5 sec, 260° C ± 5° C |

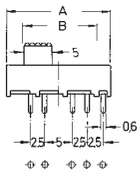
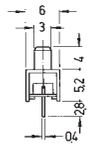
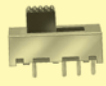


| **Models:** | Operating positions | | Length (mm) A | B | | | |
|---|---|---|---|---|---|---|---|
| MFP 1220 | 2 | | 13,0 | 7,5 | | | |
| MFP 1320 | 3 | | 15,5 | 10,0 | | | |
| MFP 1420 | 4 |  | 18,0 | 12,5 |  |  |  |
| MFP 1520 | 5 | | 20,5 | 15,0 | | | |
| MFP 1620 | 6 | | 23,0 | 17,5 | | | |

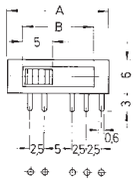
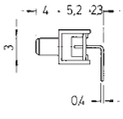
MFP 1420

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MFP 1220 – R | 2 | | 13,0 | 7,5 | | | |
| MFP 1320 – R | 3 | | 15,5 | 10,0 | | | |
| MFP 1420 – R | 4 |  | 18,0 | 12,5 |  |  |  |
| MFP 1520 – R | 5 | | 20,5 | 15,0 | | | |
| MFP 1620 – R | 6 | | 23,0 | 17,5 | | | |

MFP 1420 – R

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MFP 1323 | 3 |  | 15,5 | 10,0 |  |  |  |
| MFP 1424 | 4 | | 18,0 | 12,5 | | | |

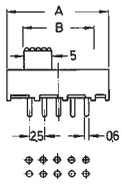
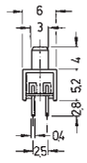
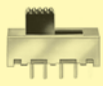
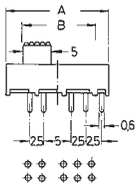
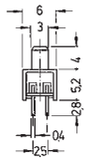
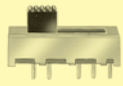
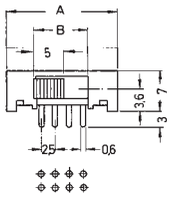
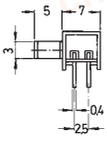
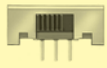
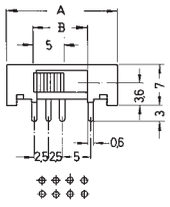
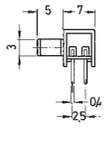
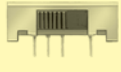
MFP 1424

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| MFP 1323 – R | 3 |  | 15,5 | 10,0 |  |  |  |
| MFP 1424 – R | 4 | | 18,0 | 12,5 | | | |

MFP 1424 – R

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# Miniature Slide Switches

| Models: | Operating positions | | Length (mm) A | B | | | |
|---|---|---|---|---|---|---|---|
| MFP 2220 | 2 | | 13,0 | 7,5 |  |  |  |
| MFP 2320 | 3 | | 15,5 | 10,0 | | | |
| MFP 2420 | 4 |  | 18,0 | 12,5 | | | |
| MFP 2520 | 5 | | 20,5 | 15,0 | | | |
| MFP 2620 | 6 | | 23,0 | 17,5 | | | |
| | | | | | MFP 2420 | | |
| MFP 2323 | 3 |  | 16,0 | 10,0 |  |  |  |
| MFP 2424 | 4 | | 18,0 | 12,5 | | | |
| | | | | | MFP 2424 | | |
| MFP 2220 – R | 2 |  | 17,0 | 6,5 |  |  |  |
| MFP 2320 – R | 3 | | 19,5 | 9,0 | | | |
| | | | | | MFP 2320 – R | | |
| MFP 2323 – R | 3 |  | 19,5 | 9,0 |  |  |  |

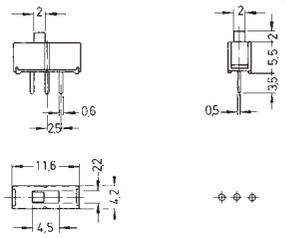
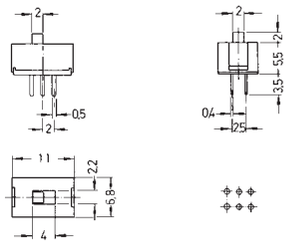
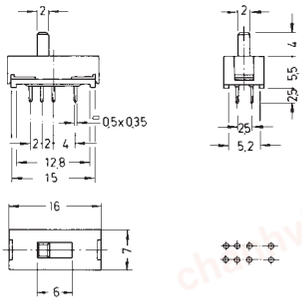
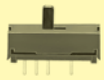
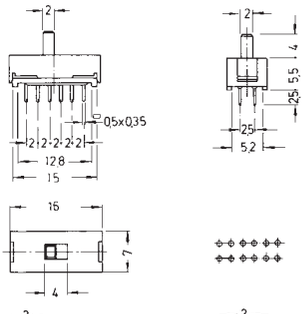
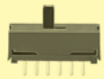
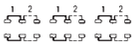
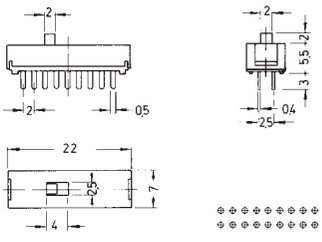
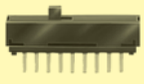
4

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# Miniature Slide Switches

**Specifications:** **see page 102**

Material: plastic housing, terminals sealed

| **Models:** | Switching functions | | | | |
|---|---|---|---|---|---|
| MFP 161 D | on | on |  |  |  |
| MFP 261 N | on | on |  |  |  |
| MFP 263 P | on | on on |  |  |  |
| MFP 461 N non-shorting | on | on |  |  |  |
| MFP 661 N | on | on |  |  |  |

4

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# Miniature Slide Switches

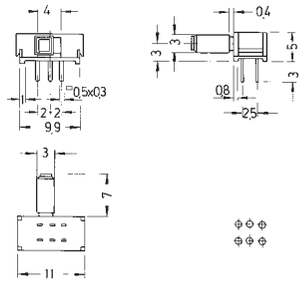
**Specifications:** **see page 102**

Material: plastic housing, terminals sealed

**Models:** Switching functions

MFP 261 N – RA on on

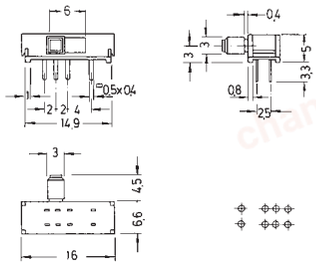






MFP 263 P – RA on on on

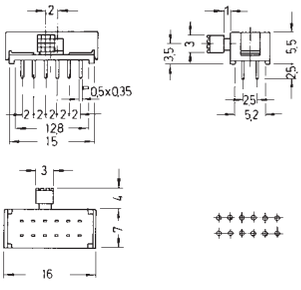






MFP 461 N – RA on on
non-shorting







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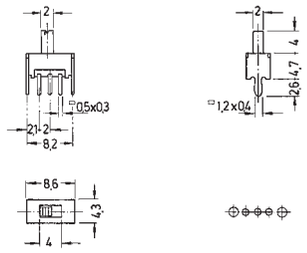
# Miniature Slide Switches

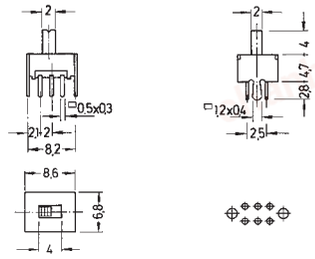
**Specifications:**

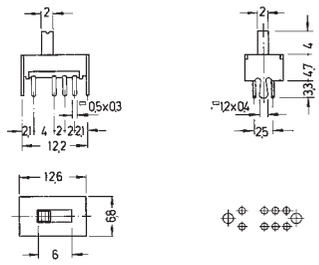
| | |
|---|---|
| Contact rating: | 12 V DC, 100 mA |
| Contact resistance: | < 20 mΩ |
| Insulation resistance: | > 100 MΩ at 500 V DC |
| Dielectric strength: | 500 V, 50 Hz for the duration of 1 minute |
| Operating temperature: | – 20° to + 85° C |
| Mechanical life: | minimum 10 000 operations |
| Contacts: | copper alloy, silver-plated over nickel barrier |
| Slide colour: | black, further colours on request |
| Soldering conditions: | auto-soldering – max.: 5 sec, 260° C ± 5° C |



| **Models:** | Switching functions | |
|---|---|---|
| MFP 113 D<br>non-shorting | on | on |
| MFP 213 N<br>non-shorting | on | on |
| MFP 213 P<br>shorting | on | on on |







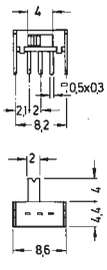
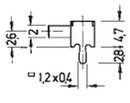
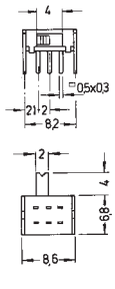
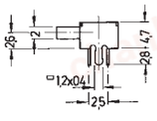
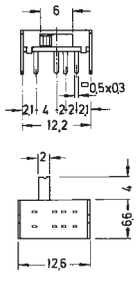
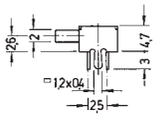



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# Miniature Slide Switches

**Specifications:**

| | |
|---|---|
| Contact rating: | 12 V DC, 100 mA |
| Contact resistance: | < 20 mΩ |
| Insulation resistance: | > 100 MΩ at 500 V DC |
| Dielectric strength: | 500 V, 50 Hz for the duration of 1 minute |
| Operating temperature: | – 20° to + 85° C |
| Mechanical life: | minimum 10 000 operations |
| Contacts: | copper alloy, silver-plated over nickel barrier |
| Slide colour: | black, further colours on request |
| Soldering conditions: | auto-soldering – max.: 5 sec, 260° C ± 5° C |

| **Models:** | Switching functions | | | | | |
|---|---|---|---|---|---|---|
| MFP 113 D – RA<br>non-shorting | on | on |  |  |  |  |
| MFP 213 N – RA<br>non-shorting | on | on |  |  |  |  |
| MFP 213 P – RA<br>shorting | on | on | on |  |  |  |  |

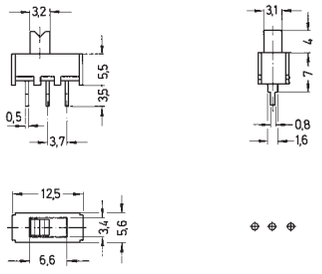
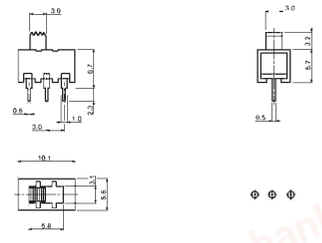
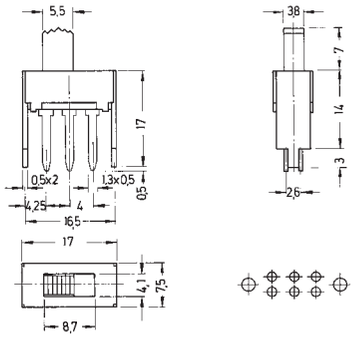
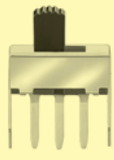
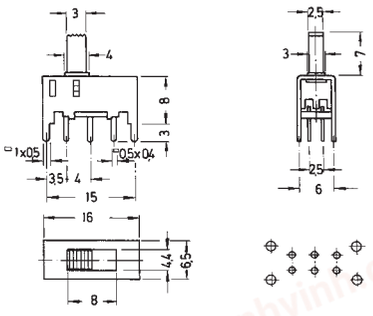
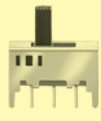
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# Miniature Slide Switches

**Specifications:**

| | |
|---|---|
| Contact rating: | 30 V DC, 350 mA |
| Contact resistance: | < 20 mΩ |
| Insulation resistance: | > 100 MΩ at 500 V DC |
| Dielectric strength: | 500 V, 50 Hz for the duration of 1 minute |
| Operating temperature: | – 20° to + 85° C |
| Mechanical life: | minimum 10 000 operations |
| Contacts: | copper alloy, silver-plated over nickel barrier |
| Contact timing: | non-shorting |
| Slide colour: | black, further colours on request |
| Soldering conditions: | auto-soldering – max.: 5 sec, 260° C ± 5° C |

| **Models:** | Switching functions | | | | |
|---|---|---|---|---|---|
| MFP 102 D | on | on |  |  |  |
| MFP 191 D | on | on |  |  |  |
| MFP 201 N | on | on |  |  |  |
| MFP 211 N | on | on |  |  |  |

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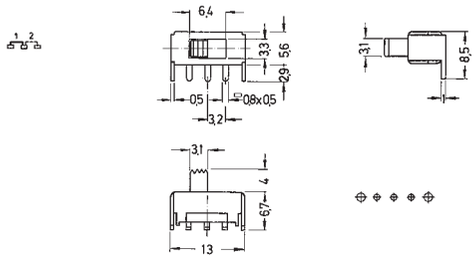
# Miniature Slide Switches

**Specifications:**

| | |
|---|---|
| Contact rating: | 30 V DC, 350 mA |
| Contact resistance: | < 20 mΩ |
| Insulation resistance: | > 100 MΩ at 500 V DC; MFPP 130 – RA: 250 V DC |
| Dielectric strength: | 500 V, 50 Hz for the duration of 1 minute |
| Operating temperature: | – 20° to + 85° C |
| Mechanical life: | minimum 10 000 operations; MFPP 130 – RA > 100 000 |
| Contacts: | copper alloy, silver-plated over nickel barrier |
| Slide colour: | black, further colours on request |
| Soldering conditions: | auto-soldering – max.: 5 sec, 260° C ± 5° C |

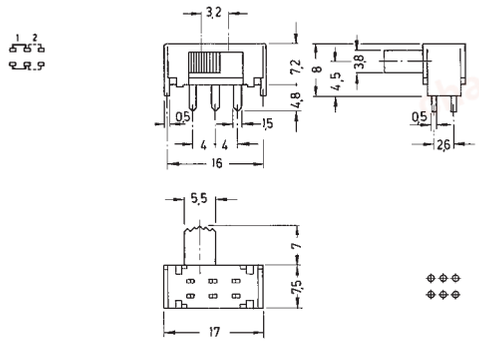
**Models:** Switching functions

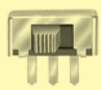
MFP 121 D – RA on on
non-shorting






MFP 201 N – RA on on
non-shorting

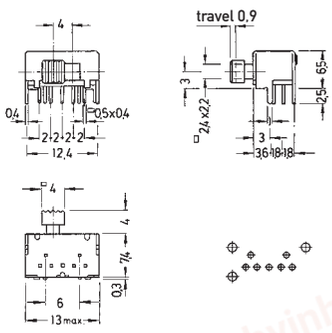


**Miniature Slide Switches/ Pushbutton Switches**

MFPP 130 – RA on on on





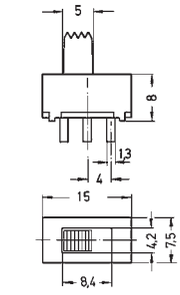
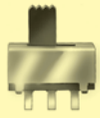
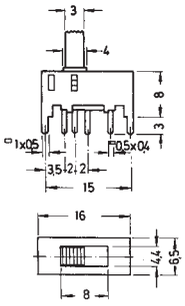
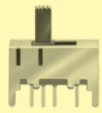
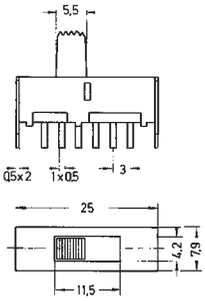
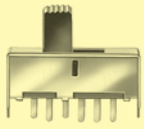
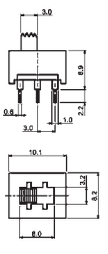

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# Miniature Slide Switches

**Specifications:**

| | |
|---|---|
| Contact rating: | 30 V DC, 350 mA |
| Contact resistance: | < 20 mΩ |
| Insulation resistance: | > 100 MΩ at 500 V DC |
| Dielectric strength: | 500 V, 50 Hz for the duration of 1 minute |
| Operating temperature: | – 20° to + 85° C |
| Mechanical life: | minimum 10 000 operations |
| Contacts: | copper alloy, silver-plated over nickel barrier |
| Slide colour: | black, further colours on request |
| Soldering conditions: | auto-soldering – max.: 5 sec, 260° C ± 5° C |

| **Models:** | Switching functions | | | |
|---|---|---|---|---|
| MFP 221 N<br>non-shorting | on on |  |  |  |
| MFP 223 P<br>shorting | on on on |  |  |  |
| MFP 231 P<br>shorting | on on on |  |  |  |
| MFP 291 N<br>non-shorting | on on |  |  |  |

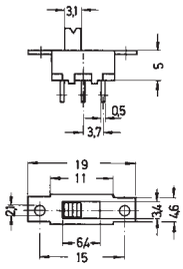
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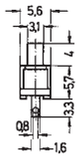
# Miniature Slide Switches

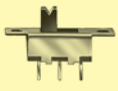
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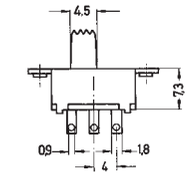
| | |
|---|---|
| Contact rating: | 30 V DC, 350 mA |
| Contact resistance: | < 20 mΩ |
| Insulation resistance: | > 100 MΩ at 500 V DC |
| Dielectric strength: | 500 V, 50 Hz for the duration of 1 minute |
| Operating temperature: | – 20° to + 85° C |
| Mechanical life: | minimum 10 000 operations |
| Contacts: | copper alloy, silver-plated over nickel barrier |
| Slide colour: | black, further colours on request |
| Soldering conditions: | hand-soldering – max.: 5 sec, 270° C |

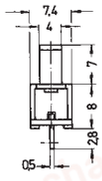
| **Models:** | Switching functions | | |
|---|---|---|---|
| MFS 121 D<br>non-shorting | on | on |  |
| MFS 131 D<br>non-shorting | on | on |  |
| MFS 201 N<br>non-shorting | on | on |  |
| MFS 231 P<br>shorting | on | on on |  |

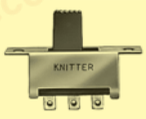


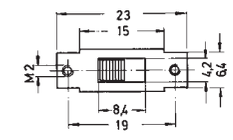



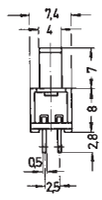



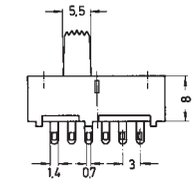


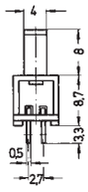



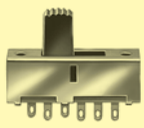



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