

#### Specifications:

Contact rating: 30 V DC, 350 mA

Contact resistance:  $< 20 \text{ m}\Omega$ 

Insulation resistance:  $> 100 \text{ M}\Omega$  at 500 V DC

Dielectric strength: 500 V, 50 Hz for the duration of 1 minute

Operating temperature:  $-20^{\circ}$  to  $+85^{\circ}$  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,  $260^{\circ}$  C  $\pm$   $5^{\circ}$  C

Models:	Operating positions	I	Length A	n (mm) B		
MFP 120 MFP 130 MFP 140 MFP 150	2 3 4 5	1 2 3 4 5 5 5 5 5 5 5	11,0 15,0 18,2 21,4	6,6 10,0 13,2 16,4	A	TTTT
MFP 120 – F MFP 130 – F MFP 140 – F MFP 150 – F	R 3	1 2 3 4 5 5 <b>5 6</b> 8 8 8	11,0 15,0 18,2 21,4	6,6 10,0 13,2 16,4	A B 5 6 15 - 6 - 15 - 15	
MFP 220 MFP 230 MFP 240 MFP 250 MFP 260	2 3 4 5 6	1 2 3 4 5 6 ታቼ 8 8 8 8 8 8 ዊ.ጽ.ጽ.ጽ.ም.	13,6 16,8 20,0 23,2 26,4	6,9 10,1 13,3 16,5 19,7	A	7117



#### Specifications:

Contact rating: 30 V DC, 350 mA

Contact resistance:  $< 25 \text{ m}\Omega$ 

> 100 M $\Omega$  at 500 V DC Insulation resistance:

Dielectric strength: 500 V, 50 Hz for the duration of 1 minute

Operating temperature:  $-20^{\circ}$  to  $+85^{\circ}$  C

Mechanical life: minimum 10 000 operations

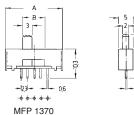
Contacts: copper alloy, silver-plated over nickel barrier

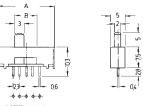
Contact timing: non-shorting

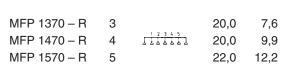
Slide colour: black, further colours on request Soldering conditions: auto-soldering - max.: 10 sec, 260° C

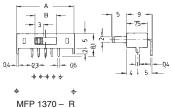
Models: Operating Length (mm) positions В















#### Specifications:

Contact rating: 30 V DC, 350 mA

Contact resistance:  $< 20 \text{ m}\Omega$ 

Insulation resistance:  $> 100 \text{ M}\Omega$  at 500 V DC

Dielectric strength: 500 V, 50 Hz for the duration of 1 minute

Operating temperature:  $-20^{\circ}$  to  $+85^{\circ}$  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

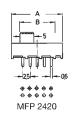
Soldering conditions: auto-soldering – max.: 5 sec,  $260^{\circ}$  C  $\pm$   $5^{\circ}$  C

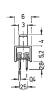
Models:	Operating positions		Length (mm) A B				
MFP 1220 MFP 1320 MFP 1420 MFP 1520 MFP 1620	2 3 4 5 6	1 2 3 4 5 6 5 6 8 8 8 8 8	13,0 15,5 18,0 20,5 23,0	7,5 10,0 12,5 15,0 17,5	A B B B B B B B B B B B B B B B B B B B	7 25 82 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	~п-п-
MFP 1220 – F MFP 1320 – F MFP 1420 – F MFP 1520 – F MFP 1620 – F	R 3 R 4 R 5	1 2 3 4 5 \$ 8 8 8 8 8 8 8	13,0 15,5 18,0 20,5 23,0	7,5 10,0 12,5 15,0 17,5	A B B B B B B B B B B B B B B B B B B B	04-15.2 23-	
MFP 1323 MFP 1424	3 4	1 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15,5 18,0	10,0 12,5	A B B - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5	6 3 7 7 7 7 8 8 2 7 8 8 2 1 8 8 2 1 8 8 2 1 8 8 2 1 8 8 2 1 8 8 2 1 8 8 2 1 8 8 2 1 8 8 2 1 8 8 2 1 8 8 2 1 8 8 2 1 8 8 2 1 8 8 2 1 8 8 2 1 8 1 8	NP-MT
MFP 1323 – F MFP 1424 – F		1 2 3 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15,5 18,0	10,0 12,5	A B W W W W W W W W W W W W W W W W W W		



Models: Operating Length (mm) positions A B

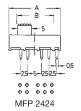
MFP 2220 2 13,0 7,5 MFP 2320 3 15,5 10,0 MFP 2420 4 18,0 12,5 5 MFP 2520 20,5 15,0 MFP 2620 6 23,0 17,5

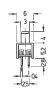






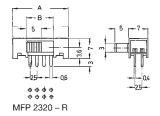
MFP 2323 3 (16,0 10,0 MFP 2424 4 (2011) 18,0 12,5





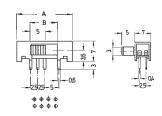


MFP 2220 – R 2 17,0 6,5 MFP 2320 – R 3 2-R.R.F 19,5 9,0





MFP 2323 – R 3







Specifications: see page 102

Material: plastic housing, terminals sealed

Models:	Switching functions	1 2 4 <del>8</del> 8		35+55-7	ulino
MFP 161 D	on on		0.6	05-1	111
			11.6 - 27 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	-ф ф·ф-	
		1 <sup>2</sup> 6 <b>2</b> - 2	2-	35 - 55 - 2	ulin
MFP 261 N	on on	<u> </u>	-12-05 -12-	04-1-25-	111
			2 4 2	* * * *	
			2	25.	
MFP 263 P	on on on	6 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	05×035 	255	<del>'1111'</del>
			15 16	<del></del>	
			-6-	ΨΨΨ- <del>-</del> -	
MFP 461 N	on on	665 655 655 655		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	_
non-shorting			05x035	- 251 - 52 -	11111
			16	<del>* *</del> * * * * * *	
MFP 661 N	on on	1 2 1 2 1 2 5 ¥ 5 5 ¥ 5 5 ¥ 5 9 F 9 9 F 9 9 F 9		2 5.5 + 5.5	
		enter terter teler	-12 0,5	0.4	-1111111111
				0 0 0 0 0 0 0 0 0 0 0 0	



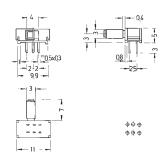
Specifications: see page 102

Material: plastic housing, terminals sealed

Models: Switching

functions

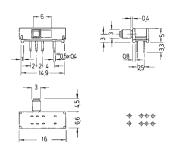
MFP 261 N - RA on on





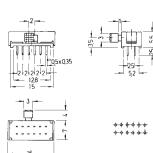
MFP 263 P - RA on on on

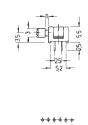






MFP 461 N – RA on on non-shorting







#### Specifications:

12 V DC, 100 mA Contact rating:

Contact resistance:  $< 20 \text{ m}\Omega$ 

> 100 M $\Omega$  at 500 V DC Insulation resistance:

Dielectric strength: 500 V, 50 Hz for the duration of 1 minute

 $-20^{\circ}$  to  $+85^{\circ}$  C Operating temperature:

Mechanical life: minimum 10 000 operations

Contacts: copper alloy, silver-plated over nickel barrier

Slide colour: black, further colours on request

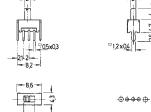
Soldering conditions: auto-soldering - max.: 5 sec, 260° C ± 5° C

Models: Switching

functions

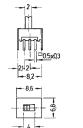
MFP 113 D

non-shorting





MFP 213 N on on non-shorting







MFP 213 P on on on shorting











#### Specifications:

12 V DC, 100 mA Contact rating:

Contact resistance:  $< 20 \text{ m}\Omega$ 

> 100 M $\Omega$  at 500 V DC Insulation resistance:

Dielectric strength: 500 V, 50 Hz for the duration of 1 minute

 $-20^{\circ}$  to  $+85^{\circ}$  C Operating temperature:

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

non-shorting

non-shorting









MFP 213 N - RA on on









MFP 213 P - RA on on on shorting















#### Specifications:

30 V DC, 350 mA Contact rating:

< 20 mΩ Contact resistance:

> 100 M $\Omega$  at 500 V DC Insulation resistance:

Dielectric strength: 500 V, 50 Hz for the duration of 1 minute

 $-20^{\circ}$  to  $+85^{\circ}$  C Operating temperature:

Mechanical life: minimum 10 000 operations

Contacts: copper alloy, silver-plated over nickel barrier

Contact timing: non-shorting

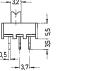
Slide colour: black, further colours on request

Soldering conditions: auto-soldering - max.: 5 sec, 260° C ± 5° C

Models: Switching

functions

MFP 102 D 1 2







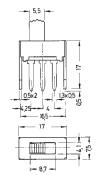


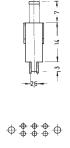




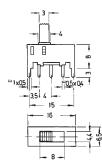


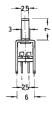
























#### Specifications:

Contact rating: 30 V DC, 350 mA

Contact resistance:  $< 20 \text{ m}\Omega$ 

> 100  $M\Omega$  at 500 V DC; MFPP 130 - RA: 250 V DC Insulation resistance:

Dielectric strength: 500 V, 50 Hz for the duration of 1 minute

 $-20^{\circ}$  to  $+85^{\circ}$  C Operating temperature:

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

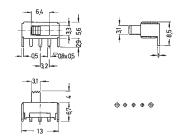
Soldering conditions: auto-soldering - max.: 5 sec, 260° C ± 5° C

Models: Switching

functions

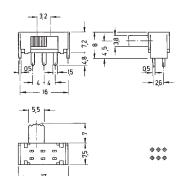
MFP 121 D - RA on on

non-shorting





MFP 201 N - RA on on non-shorting

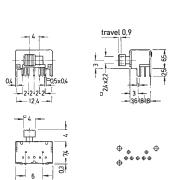




Miniature Slide Switches/ **Pushbutton Switches** 

MFPP 130 – RA on on on









#### Specifications:

Contact rating: 30 V DC, 350 mA

Contact resistance:  $< 20 \text{ m}\Omega$ 

Insulation resistance:  $> 100 \text{ M}\Omega$  at 500 V DC

Dielectric strength: 500 V, 50 Hz for the duration of 1 minute

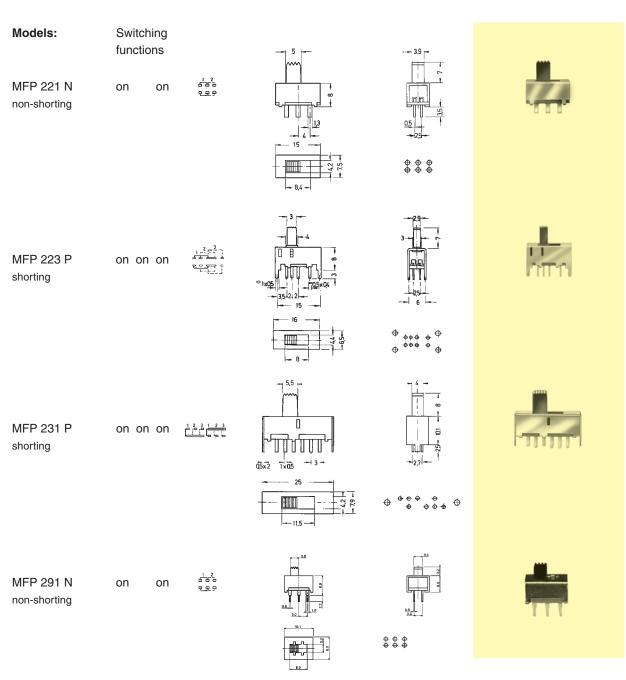
Operating temperature:  $-20^{\circ}$  to  $+85^{\circ}$  C

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,  $260^{\circ}$  C  $\pm$   $5^{\circ}$  C





#### Specifications:

Contact rating: 30 V DC, 350 mA

Contact resistance:  $< 20 \text{ m}\Omega$ 

Insulation resistance:  $> 100 \text{ M}\Omega$  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

