

# FSM4JSMA Datasheet



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DiGi Electronics Part Number	FSM4JSMA-DG
Manufacturer	<a href="#">TE Connectivity ALCOSWITCH Switches</a>
Manufacturer Product Number	FSM4JSMA
Description	SWITCH TACTILE SPST-NO 0.05A 24V
Detailed Description	Tactile Switch SPST-NO Top Actuated Surface Mount



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## Purchase and inquiry

Manufacturer Product Number:

FSM4JSMA

Series:

FSMJSMA

Circuit:

SPST-NO

Contact Rating @ Voltage:

0.05A @ 24VDC

Mounting Type:

Surface Mount

Actuator Length, Right Angle:

-

Termination Style:

Gull Wing

Illumination:

Non-Illuminated

Illumination Voltage (Nominal):

-

Ingress Protection:

-

Operating Temperature:

-40°C ~ 85°C

Switch Travel:

0.25mm

Base Product Number:

FSM4

Manufacturer:

TE Connectivity ALCOSWITCH Switches

Product Status:

Active

Switch Function:

Off-Mom

Actuator Type:

Standard

Actuator Height off PCB, Vertical:

5.00mm

Actuator Orientation:

Top Actuated

Outline:

6.00mm x 6.00mm

Illumination Type, Color:

-

Operating Force:

160gf

Features:

-

Actuator Material:

Polyphenylene Sulfide (PPS)

Mechanical Life:

100,000 Cycles

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8536.50.9031

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99



# Switches Core Program

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Please note that the product range in this catalog represents a part of the complete range of Tyco Electronics switches only.

For additional products in the listed product groups as well as for

- Rotary Switches,
- Keylock Switches,
- Industrial Controls,
- Pushwheel Switches and
- Accessories as knobs, caps, boot seals and the respective hardware

please contact our sales office or see our products under [www.tycoelectronics.com](http://www.tycoelectronics.com).

## DIP Switches - GD Series, High Feature Line

### GDS Series

- Low profile
- End stackable
- Auto insertable
- Gold contacts



### GDP Series

- Piano actuator
- Classic profile
- Gold contacts



### GDR Series

- Recessed rocker actuator
- Classic profile
- Gold contacts



#### Dips

Standard number of positions
Mounting style
Tape seal
Contact rating
Electrical endurance
Operating temperature range
Dimensions (WxH)
Packaging

2, 4, 6, 8, 10
THT, SMT
Yes
25 mA @ 24 Vdc
1000 ops.
-30...+85°C
6.2 x 2.7 mm
Tube, Tape and Reel

2, 4, 6, 8, 10
THT, SMT
Yes
25 mA @ 24 Vdc
1000 ops.
-30...+85°C
9.6 x 8.7 mm
Tube, Tape and Reel

2, 4, 6, 8, 10
THT, SMT
Yes
25 mA @ 24 Vdc
1000 ops.
-30...+85°C
9.6 x 6.9 mm
Tube, Tape and Reel

### GDH Series

- Low profile
- Half pitch
- Gold contacts



### GDHL Series

- Ultra low profile
- Half pitch
- Gold contacts



#### Dips

Standard number of positions
Mounting style
Tape seal
Contact rating
Electrical endurance
Operating temperature range
Dimensions (WxH)
Packaging

2, 4, 6, 8, 10
SMT
Yes
25 mA @ 24 Vdc
1000 ops.
-30...+85°C
6.2 x 3.2 mm
Tape and Reel

2, 4, 6, 8, 10
SMT
Yes
25 mA @ 24 Vdc
1000 ops.
-30...+85°C
4.5 x 1.45 mm
Tube, Tape and Reel

**DIP Switches - AD Series, SIP Switches, DIP Series**

**ADE Series**

- Extended actuator
- High pressure contact system
- Processable without tape seal
- Auto insertable



Standard number of positions	2...12
Mounting style	THT, SMT
Tape seal	No
Contact rating	100 mA @ 24 Vdc
Electrical endurance	1000 ops.
Integral resistors	Optional
Operating temperature range	-30...+85°C
Dimensions (WxH)	7.5 x 3.5 mm
Packaging	Tube

**ADF Series**

- Flush actuator
- High pressure contact system
- Processable without tape seal
- Auto insertable



Standard number of positions	2...12
Mounting style	THT, SMT
Tape seal	Optional
Contact rating	100 mA @ 24 Vdc
Electrical endurance	1000 ops.
Integral resistors	Optional
Operating temperature range	-30...+85°C
Dimensions (WxH)	7.5 x 3.5 mm
Packaging	Tube, Tape and Reel

**ADP Series**

- Piano actuator
- High pressure contact system
- Processable without tape seal
- Auto insertable



Standard number of positions	2, 4, 6, 8, 10
Mounting style	THT, SMT
Tape seal	No
Contact rating	100 mA @ 24 Vdc
Electrical endurance	1000 ops.
Integral resistors	No
Operating temperature range	-30...+85°C
Dimensions (WxH)	8.8 x 6.8 mm
Packaging	Tube, Tape and Reel

**Dips**

Standard number of positions	2...12
Mounting style	THT, SMT
Tape seal	No
Contact rating	100 mA @ 24 Vdc
Electrical endurance	1000 ops.
Integral resistors	Optional
Operating temperature range	-30...+85°C
Dimensions (WxH)	7.5 x 3.5 mm
Packaging	Tube

**STV, STR Series**

- Low profile
- High pressure contact system
- Processable without tape seal



Standard number of positions	2, 4, 6, 8, 10
Mounting style	THT
Tape seal	No
Contact rating	25 mA @ 24 Vdc
Electrical endurance	1000 ops.
Operating temperature range	-30...+85°C
Dimensions (WxH)	3.2 x 6.2 mm
Packaging	Tube

**DIP Series**

- Up to 30 poles
- Action pins up to 9 poles
- High contact force to break through oxide or dirt layers



Standard number of positions	1-30
Mounting style	THT, Action pins
Tape seal	No
Contact rating	25 mA @ 50 Vdc
Electrical endurance	2000 ops.
Operating temperature range	-25...+70°C
Dimensions (WxH)	10.0 x 8.5 mm
Packaging	Tube

**Dips**

Standard number of positions	2, 4, 6, 8, 10
Mounting style	THT
Tape seal	No
Contact rating	25 mA @ 24 Vdc
Electrical endurance	1000 ops.
Operating temperature range	-30...+85°C
Dimensions (WxH)	3.2 x 6.2 mm
Packaging	Tube

## DIP Shunts, DIP-Fix, Rotary DIP Switches

### HTH DIP Shunts

- Machine insertable shunt on request



#### Shunts, DIP-Fix

Standard number of positions
Mounting style
Tape seal
Contact rating
Electrical endurance
Operating temperature range
Dimensions (WxH)
Packaging

4, 6, 8, 10, 12
THT
No
up to 2 A
-
-30...+85°C
6.0 x 2.0 mm
Tube

### DIP-Fix

- Highly simplified DIP switch with change over option
- Low cost alternative
- Predetermined breaking points



1-10, 12, 16, 24
THT
No
up to 0.5 A
50 ops.
-40...+85°C
12.4 x 8.1 mm
Tray

### MRD Series

- Low profile
- Process sealed
- 7 mm edge length



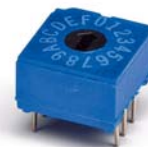
#### Rotary Dips

Right angle versions
Standard number of positions
Mounting style
Actuator style
Flush actuator versions
Output Code
Tape seal
Contact rating
Electrical endurance
Operating temperature range
Dimensions (LxWxH)
Packaging

for THT version only
10, 16
THT, SMT
Flush actuator only
Yes
BCD, BCD compl., Hex, Hex compl.
Optional
20 mA @ 20 Vdc
20,000 ops.
-30...+85°C
7 x 7 x 3.3 mm
Tube, Tape and Reel

### DR-/D/M/S/W Series

- Process sealed
- 10 mm edge length



for THT version only
10, 16
THT, SMT
Flush, Mini plastic shaft, Wheel, Metal shaft
Yes
BCD, BCD compl., Hex, Hex compl.
Optional
20 mA @ 20 Vdc
20,000 ops.
-30...+85°C
10 x 10 x 6.8 mm
Tube, Tape and Reel (for SMT version only)

## Tactile Switches

### FSM . SM/JM Series

- Small PCB footprint



Style	3.5 x 6
Mounting style	THT, SMT
Right angle versions	No
Low profile versions	No
Flush actuator version	Yes
Different actuator styles	Yes
ESD grounding term./locating post	No / No
Sealed versions	Yes
Standard actuation force	1.3, 1.8 N
Electrical endurance	up to 100,000 ops.
Operating temperature range	-40...+85°C
Dimensions horizontal ver. (LxWxH)	3.5 x 6 x 4.3...5 mm
Dimensions sealed ver. (LxWxH)	4.7 x 6.8 x 4.3...5 mm
Packaging	Tape and Reel, Bulk

### FSM . SM/JM LP Series

- Small PCB footprint
- Low profile
- SMT and SMT up pinning

NEW



Style	4 x 6
Mounting style	SMT
Right angle versions	No
Low profile versions	Standard
Flush actuator version	No
Different actuator styles	No
ESD grounding term./locating post	No / No
Sealed versions	No
Standard actuation force	1.6, 2.6 N
Electrical endurance	up to 1,000,000 ops.
Operating temperature range	-40...+85°C
Dimensions horizontal ver. (LxWxH)	4.2 x 6 x 2.5 mm
Dimensions sealed ver. (LxWxH)	-
Packaging	Tape and Reel

### FSM 6 x 6 Series

- Different actuator and mounting versions
- 105°C versions available



Style	6 x 6
Mounting style	THT, SMT
Right angle versions	Yes
Low profile versions	Yes
Flush actuator version	Yes
Different actuator styles	Yes
ESD grounding term./locating post	Optional / No
Sealed versions	Yes
Standard actuation force	1.0, 1.6, 2.6, 5.2 N
Electrical endurance	up to 2,000,000 ops.
Operating temperature range	-40...+85°C, (+105°C)
Dimensions horizontal ver. (LxWxH)	6 x 6 x 4.3...17 mm
Dimensions sealed ver. (LxWxH)	-
Packaging	Tape and Reel, Bulk

#### Tactiles

Style	3.5 x 6
Mounting style	THT, SMT
Right angle versions	No
Low profile versions	No
Flush actuator version	Yes
Different actuator styles	Yes
ESD grounding term./locating post	No / No
Sealed versions	Yes
Standard actuation force	1.3, 1.8 N
Electrical endurance	up to 100,000 ops.
Operating temperature range	-40...+85°C
Dimensions horizontal ver. (LxWxH)	3.5 x 6 x 4.3...5 mm
Dimensions sealed ver. (LxWxH)	4.7 x 6.8 x 4.3...5 mm
Packaging	Tape and Reel, Bulk

### FSM 10 Series

- Different actuator and mounting versions



#### Tactiles

Style	12 x 12
Mounting style	THT, SMT
Right angle versions	Yes
Low profile versions	No
Flush actuator version	Yes
Different actuator styles	Yes
ESD grounding term./locating post	No / Optional
Sealed versions	Yes
Standard actuation force	1.6, 2.6 N
Electrical endurance	up to 1,000,000 ops.
Operating temperature range	-35...+85°C
Dimensions horizontal ver. (LxWxH)	12 x 12.5 x 4.3...12 mm
Dimensions sealed ver. (LxWxH)	12 x 12.5 x 4.3...7.3 mm
Packaging	Tape and Reel, Bulk

**Tactile Switches**

**FSM Turtle**

- Side actuated tactile



**FSMMSH Series**

- Small PCB space required
- Side actuated



**FSM . MS Series**

- Low profile
- Side actuated



Tactiles	
Style	Turtle
Mounting style	SMT
Right angle versions	No
Low profile versions	No
Flush actuator version	No
Different actuator styles	No
ESD grounding term./locating post	No / Optional
Sealed versions	No
Standard actuation force	1.6 N
Electrical endurance	100,000 ops.
Operating temperature range	-20...+85°C
Dimensions horizontal ver. (LxWxH)	4.0 x 7.15 x 1.7 mm
Dimensions sealed ver. (LxWxH)	-
Packaging	Tape and Reel, Bulk

Style	Turtle
Mounting style	SMT
Right angle versions	No
Low profile versions	No
Flush actuator version	No
Different actuator styles	No
ESD grounding term./locating post	No / Optional
Sealed versions	No
Standard actuation force	1.6 N
Electrical endurance	100,000 ops.
Operating temperature range	-20...+85°C
Dimensions horizontal ver. (LxWxH)	4.0 x 7.15 x 1.7 mm
Dimensions sealed ver. (LxWxH)	-
Packaging	Tape and Reel, Bulk

Style	Miniature side actuated
Mounting style	SMT
Right angle versions	Yes
Low profile versions	No
Flush actuator version	No
Different actuator styles	No
ESD grounding term./locating post	No / Optional
Sealed versions	No
Standard actuation force	1.6 N
Electrical endurance	100,000 ops.
Operating temperature range	-20...+70°C
Dimensions horizontal ver. (LxWxH)	4.5 x 2.55 x 3.3 mm
Dimensions sealed ver. (LxWxH)	-
Packaging	Tape and Reel

Style	Miniature side actuated
Mounting style	SMT
Right angle versions	Yes
Low profile versions	No
Flush actuator version	No
Different actuator styles	No
ESD grounding term./locating post	No / Optional
Sealed versions	No
Standard actuation force	2.2, 2.5 N
Electrical endurance	100,000 ops.
Operating temperature range	-20...+85°C
Dimensions horizontal ver. (LxWxH)	refer to catalogue
Dimensions sealed ver. (LxWxH)	-
Packaging	Tape and Reel

**FSMCT Series**

- Low profile



**FSMLPU**

- Ultra low profile
- 0.6 mm high only



Tactiles	
Style	5 x 5
Mounting style	SMT
Right angle versions	No
Low profile versions	No
Flush actuator version	No
Different actuator styles	No
ESD grounding term./locating post	No / No
Sealed versions	No
Standard actuation force	1.6, 2.6 N
Electrical endurance	up to 1,000,000 ops.
Operating temperature range	-20...+85°C
Dimensions horizontal ver. (LxWxH)	5.2 x 5.2 x 1.5 mm
Dimensions sealed ver. (LxWxH)	-
Packaging	Tape and Reel

Style	5 x 5
Mounting style	SMT
Right angle versions	No
Low profile versions	No
Flush actuator version	No
Different actuator styles	No
ESD grounding term./locating post	No / No
Sealed versions	No
Standard actuation force	1.6, 2.6 N
Electrical endurance	up to 1,000,000 ops.
Operating temperature range	-20...+85°C
Dimensions horizontal ver. (LxWxH)	5.2 x 5.2 x 1.5 mm
Dimensions sealed ver. (LxWxH)	-
Packaging	Tape and Reel

Style	5 x 5
Mounting style	SMT
Right angle versions	No
Low profile versions	Standard
Flush actuator version	Standard
Different actuator styles	No
ESD grounding term./locating post	No / No
Sealed versions	No
Standard actuation force	1.6 N
Electrical endurance	500,000 ops.
Operating temperature range	-20...+70°C
Dimensions horizontal ver. (LxWxH)	4.8 x 4.8 x 0.6 mm
Dimensions sealed ver. (LxWxH)	-
Packaging	Tape and Reel

**Slide Switches**

**ASE, ASF Series**

- Bifurcated double wipe contacts, also for telecom grade switching
- ASF for auto insertion on standard IC equipment



Number of poles	2, 4, 6
Number of throws	2, 3 (available in 4 pole only)
Contact timing	Make before Break
Right angle versions	Yes
Mounting style	SMT, THT
Actuator style	ASF: Flush top actuator ASE: Extended top or side ASFO: Flush top or side
Flush actuator version	ASF: Yes, ASE: No
Tape seal	ASF: Yes, ASE: No
Contact rating	Gold: 20 mA @ 20 Vdc Silver: 300 mA @ 115 Vac, 28 Vdc
Electrical endurance	10,000 ops.
Operating temperature range	-40...+80°C
Dimensions (LxWxH)	refer to catalogue
Packaging	Tube

**S, SE Series**

- Compact slide switch
- S: unsealed  
SE: sealed (IP 67)



Number of poles	1 or 2
Number of throws	1,2
Contact timing	Break before Make
Right angle versions	Yes
Mounting style	SMT, THT
Actuator style	SE: Actuator with boot sealing
Flush actuator version	No
Tape seal	No
Contact rating	20 mA @ 20 Vdc
Electrical endurance	10,000 ops.
Operating temperature range	-20...+80°C
Dimensions (LxWxH)	9.5 x 5 x 8.0 mm
Packaging	Tray, Tape and Reel

**STS, SDS Series**

- Miniature slide switch
- STS: economy grade  
SD: instrumentation grade
- Low profile



Number of poles	1 or 2
Number of throws	up to 6
Contact timing	Make before Break
Right angle versions	Yes
Mounting style	THT
Actuator style	SDS: on request
Flush actuator version	No
Tape seal	No
Contact rating	300 mA @ 125 Vac
Electrical endurance	10,000 ops.
Operating temperature range	-15...+60°C
Dimensions (LxWxH)	refer to catalogue
Packaging	Bulk

<b>Slide switch</b>	
Number of poles	
Number of throws	
Contact timing	
Right angle versions	
Mounting style	
Actuator style	
Flush actuator version	
Tape seal	
Contact rating	
Electrical endurance	
Operating temperature range	
Dimensions (LxWxH)	
Packaging	

**TSS Series**

- Single or dual actuator



Number of poles	up to 4
Number of throws	1 or 2
Contact timing	Break before Make
Right angle versions	Yes
Mounting style	THT
Actuator style	Standard
Flush actuator version	Yes
Tape seal	No
Contact rating	20 mA @ 20 Vdc
Electrical endurance	80,000 ops.
Operating temperature range	-20...+80°C
Dimensions (LxWxH)	refer to catalogue
Packaging	Bulk

**MSS, MSSA Series**

- Instrumentation grade



Number of poles	up to 6
Number of throws	up to 4
Contact timing	Make before Break
Right angle versions	Yes
Mounting style	THT
Actuator style	Standard / MSSA: Position snap
Flush actuator version	No
Tape seal	No
Contact rating	Gold: 20 mA @ 20 Vdc Silver: 300 mA @ 125 Vac
Electrical endurance	15,000 ops.
Operating temperature range	-20...+85°C
Dimensions (LxWxH)	refer to catalogue
Packaging	Tray

**MSSA-01/04 Series**

- Instrumentation grade
- Top and side actuator



Number of poles	up to 2
Number of throws	2
Contact timing	Break before Make
Right angle versions	Yes
Mounting style	THT
Actuator style	Standard
Flush actuator version	Yes
Tape seal	No
Contact rating	Gold: 20 mA @ 20 Vdc Silver: 3A@115Vac, 1.5A@230Vac
Electrical endurance	30,000 ops.
Operating temperature range	-20...+85°C
Dimensions (LxWxH)	MSSA1: 11.9 x 6.4 x 8 mm MSSA2: 11.9 x 11.4 x 8 mm
Packaging	Bulk

## Slide Switches

### MHS Series

- Low profile
- Instrumentation grade



#### Slide switch

Number of poles
Number of throws
Contact timing
Right angle versions
Mounting style
Actuator style
Flush actuator version
Tape seal
Contact rating
Electrical endurance
Operating temperature range
Dimensions (LxWxH)
Packaging

up to 2
up to 3
Make before Break
Yes
THT
Standard and Baton
No
No
Gold: 20 mA @ 20 Vdc Silver: 300 mA @ 125 Vac
15,000 ops.
-20...+100°C
16.0 x 6.7 x 7.5 mm
Tray

### SSJ Series

- Micro size
- Instrumentation grade



1
3
Make before Break
Yes
THT
Standard
No
No
100 mA @ 12 Vdc
10,000 ops.
-10...+60°C
10.2...15.8 x 4 x 5.5 mm
Tray

### SSA Series

- Micro size
- Instrumentation grade



up to 2
2
Make before Break
Yes
THT
Standard
No
No
Gold: 20 mA @ 20 Vdc Silver: 100 mA @ 30 Vac
up to 10,000 ops.
-20...+80°C
9.0...15.0 x 3.4...5.6 x 4.8 mm
Bulk

### SLS/SL/SLSA Series

- Wiping contact
- Consumer grade



#### Slide switch

Number of poles
Number of throws
Contact timing
Right angle versions
Mounting style
Actuator style
Flush actuator version
Tape seal
Contact rating
Electrical endurance
Operating temperature range
Dimensions (LxWxH)
Packaging

up to 2
up to 10
Break before Make
Yes
THT
Standard, Lever / Knob Actuator
No
No
SLS/SL: 250 mA @ 125 Vac, 150 mA @ 12 Vdc SLA: 500 mA @ 125 Vac
10,000 ops.
SLS/SL: -10...+60°C, SLA: -20...+85°C
refer to catalogue
Bulk

### MLL Series

- Low profile



1
up to 3
Make before Break
Standard
SMT
Standard
No
No
300 mA; 4 Vdc
10,000 ops.
20...+85°C
6.7...9.7 x 2.6 x 1.4
Tube, Tape and Reel

## Toggle Switches

### TST Series

- Sub miniature toggle switch
- Sealed



#### Toggles

Number of poles
Contact timing
Right angle versions
Standard number of positions
Terminals / Mounting style
Actuator style
Contact rating
Electrical endurance
Operating temperature range
Dimensions case (LxWxH)
Packaging

1
Break before Make
Yes
2 or 3
THT
Various lengths
20 mA @ 20 Vac/dc
80,000 ops.
-30...+85°C
8.1 x 5.0 x 9.1 mm
Bulk

### TT Series

- Sub miniature toggle switch
- Boot seal available



up to 4
Break before Make
right angle and vertical right angle
2 or 3
THT, Wire lug, Wire wrap; Various bushings versions
Various lengths, round, flat, locking
Gold: 20 mA @ 20 Vdc Silver (2pos): 3A@125Vac, 28Vdc Silver (3pos): 2A@125Vac, 28Vdc
60,000 ops.
-30...+85°C
8.1 x 6 x 8.8...15.7 mm
Bulk

### Gemini Series A

- Miniature toggle switch



1 or 2
Break before Make
right angle and vertical right angle
2 or 3
THT, Wire lug, Quick connect, Wire wrap, Support brackets; Various bushings versions
different lengths, round, flat, locking; rocker style
2 A @ 250 Vac
40,000 ops.
-30...+85°C
12.7 x 6.9...16.8 x 10.4 mm
Bulk

### Gemini Series AE

- Miniature toggle switch sealed
- Meets requirements of IP67



#### Toggles

Number of poles
Contact timing
Right angle versions
Standard number of positions
Terminals / Mounting style
Actuator style
Contact rating
Electrical endurance
Operating temperature range
Dimensions case (LxWxH)
Packaging

1 or 2
Break before Make
right angle and vertical right angle
2 or 3
THT, Wire lug, Quick connect, Wire wrap, Support brackets
different lengths, round, flat; rocker style
2 A @ 250 Vac
30,000 ops.
-30...+85°C
12.7 x 6.6...11.4 x 10.3 mm
Bulk

### MT Series

- Toggle switch



up to 4
Break before Make
right angle and vertical right angle
2 or 3
THT, Wire lug
Lengths, round, flat, Mustang, splash proof bat actuator, locking, decorative bat actuator
3 A @ 250 Vac, 4 A @ 28 Vdc
80,000 ops.
-20...+85°C
13 x 8...22.5 x 11.5 mm
Bulk

## Toggle Switches

### AW Series

- IP67 panel mounting seal
- Sleeve & Frame perfect sealed



Number of poles	1, 2 and 4
Contact timing	Break before Make
Right angle versions	No
Standard number of positions	2 or 3
Terminals / Mounting style	Quick connect
Actuator style	Standard Toggle
Contact rating	20 A @ 250 Vac
Electrical endurance	20,000 ops.
Operating temperature range	-20...+70°C
Dimensions case (LxWxH)	33 x 19.5...36.5 x 24.5 mm
Packaging	Bulk

### F Series

- Terminals are gold-flashed
- Wide range of switching functions
- Wide choice of toggles



Number of poles	up to 4
Contact timing	Break before Make
Right angle versions	No
Standard number of positions	2 or 3
Terminals / Mounting style	Leadwire hooking
Actuator style	Standard, long, locking; rocker style
Contact rating	6 A @ 250 Vac
Electrical endurance	50,000 ops.
Operating temperature range	-20...+70°C
Dimensions case (LxWxH)	14.8 x 8...23 x 10.5 mm
Packaging	Bulk

#### Toggles

Number of poles	
Contact timing	
Right angle versions	
Standard number of positions	
Terminals / Mounting style	
Actuator style	
Contact rating	
Electrical endurance	
Operating temperature range	
Dimensions case (LxWxH)	
Packaging	

## Push Buttons

### TP Series

- Miniature
- Dual actuator available



### MP Series

- Caps in different colours



#### Push buttons

Number of poles	1 or 2	up to 4
Contact timing	Break before Make	Break before Make
Right angle versions	right angle and vertical right angle	No
Sealing	Process sealed optional	MPE: splash proof (meets IP65)
Mounting style	THT, Wire lug, different bushing styles	THT, Panel mount, Wire lug
Actuator style	round, rectangular	Optional caps for MPA, MPE
Flush actuator versions	Yes	No
Contact rating	Gold: 20 mA @ 20 Vdc Silver: 1 A @ 125 Vac, 28 Vdc	6 A @ 120 Vac, 3 A @ 250 Vac
Electrical endurance	100,000 ops.	50,000 ops.
Operating temperature range	-30...+65°C	-20...+80°C
Dimensions case (LxWxH)	8.1 x 5.2 x 8.1 mm	13 x 8.1...22.5 x 14...17.3 mm
Packaging	Bulk	Bulk

## Micro Switches

### MP Miniature Micro Switch Series

- Low and high current versions



### SP Sub Miniature Micro Switch Series

- Various actuator and mounting options



### UP Ultra Miniature Micro Switch Series

- Different mounting options
- Silver or gold contacts



#### Micro switch

Contact configuration
Right angle versions
Mounting style
Actuator style
Standard actuation force
Contact rating
Electrical endurance
Operating temperature range
Approvals
Dimensions (LxWxH)
Packaging

SPDT, SPNC, SPNO
No
Solder or Spade
Pin plunger, short, normal, simulator lever, roller
16 A Version: 1.2, 2.0, 3.0 N
0.1 A Version: 0.55 N
16 A @ 250 Vac
0.1 A @ 250 Vac
up to 100,000 ops.
-25...+130°C
UL, cUL, ENEC
27.8 x 10.2 x 15.9 mm
Tray

SPDT
No
TAB, THT, Solder terminals
Pin plunger, normal, long, simulator lever, roller
0.8...2.5 N
5 A @ 250 Vac
up to 50,000 ops.
-25...+80°C
UL, cUL, ENEC
19.8 x 6.4 x 10.6 mm
Tray

SPDT
left and right
THT
Straight lever, without lever
0.3...1.5 N
UP3 version: 3A @ 125 Vac
UP01 version: 0.1 @ 30 Vdc
1,000,000 ops.
-25...+80°C
UL
12.7 x 5.8 x 6.7 mm
Tray

## Power Rocker Switches

### PRA Series

- 13.0 mm x 19.2 mm panel cut-out
- Easy snap-in mounting



### PRC Series

- IP 66 waterproof
- 21.2 mm x 36.6 mm panel cut-out
- Easy snap-in mounting



### PRE Series

- 19.4 mm x 22.2 mm panel cut-out
- Easy snap-in mounting



#### Power Rocker Switch

Number of poles
Sealing
Type of terminals
Illumination versions
Contact rating
Electrical endurance
Operating temperature range
Approvals
Packaging

1 or 2
Dust resistant, optional waterproof cover
Solder lug or Quick connect single pole versions only
1 pole version: 10A @ 250 Vac
2 pole version: 6A @ 250 Vac
≥ 6,000 ops.
-20...+85°C
1 pole vers.: cUL (VDE, ENEC)
2 pole vers.: cUL
Tray

1 or 2
IP 66 waterproof
Solder lug, Quick connect, Screw
No
10A @ 250 Vac
≥ 6,000 ops.
-20...+85°C
UL
Tray

2
Dust resistant
Solder lug or Quick connect
Yes
6 A @ 250 Vac
≥ 10,000 ops.
-20...+85°C
UL, VDE, ENEC
Tray

### PRF Series

- 22.2 mm x 30.2 mm panel cut-out
- Easy snap-in mounting



### PRG Series

- 11.2 mm x 30.2 mm panel cut-out
- Easy snap-in mounting



#### Power Rocker Switch

Number of poles
Sealing
Type of terminals
Illumination versions
Contact rating
Electrical endurance
Operating temperature range
Approvals
Packaging

2
Dust resistant
Solder lug or Quick connect
Yes
10 A @ 250 Vac
≥ 10,000 ops.
-20...+85°C
UL, VDE, ENEC
Tray

1
Dust resistant
Solder lug or Quick connect
Yes
10 A @ 250 Vac
≥ 6,000 ops.
-20...+85°C
UL, VDE, ENEC
Tray

## Preferred Part Numbers - DIP Switches

### GDS Series



Product key	Positions	Mounting	Packaging	Part number
GDS0204	2	THT	tube	1825006-1
GDS02S04		SMT		1825006-3
GDS02STR04			tape and reel	1825006-4
GDS0404	4	THT	tube	1825006-5
GDS04S04		SMT		1825006-7
GDS04STR04			tape and reel	1825006-8
GDS0604	6	THT	tube	1825006-9
GDS06S04		SMT		1-1825006-1
GDS06STR04			tape and reel	1-1825006-2
GDS0804	8	THT	tube	1-1825006-3
GDS08S04		SMT		1-1825006-5
GDS08STR04			tape and reel	1-1825006-6
GDS1004	10	THT	tube	1-1825006-7
GDS10S04		SMT		1-1825006-9
GDS10STR04			tape and reel	2-1825006-0

### GDP Series



Product key	Positions	Mounting	Packaging	Part number
GDP0204	2	THT	tube	1571998-1
GDP02STR04		SMT	tape and reel	1571998-4
GDP0404	4	THT	tube	1571998-5
GDP04STR04		SMT	tape and reel	1571998-8
GDP0604	6	THT	tube	1571998-9
GDP06STR04		SMT	tape and reel	1-1571998-2
GDP0804	8	THT	tube	1-1571998-3
GDP08STR04		SMT	tape and reel	1-1571998-6
GDP1004	10	THT	tube	1-1571998-7
GDP10STR04		SMT	tape and reel	2-1571998-0

### GDR Series



Product key	Positions	Mounting	Packaging	Part number
GDR0404	4	THT	tube	1825286-3
GDR04S04		SMT		1825286-4
GDR0804	8	THT		1825286-7
GDR08S04		SMT		1825286-8

### GDH Series



Product key	Positions	Mounting	Packaging	Part number
GDH02S04	2	SMT	tube	1571983-1
GDH02STR04			tape and reel	1571983-3
GDH04S04	4		tube	1571983-4
GDH04STR04			tape and reel	1571983-5
GDH06STR04	6			1571983-9
GDH08S04			tube	1-1571983-0
GDH08STR04	8		tape and reel	1-1571983-1

### GDHL Series



Product key	Positions	Mounting	Packaging	Part number
GDHL04S	4	SMT	tube	1977103-3
GDHL04STR			tape and reel	1977103-4
GDHL08S	8		tube	1977103-7
GDHL08STR			tape and reel	1977103-8

### ADE Series



Product key	Positions	Mounting	Packaging	Part number
ADE0204	2	THT	tube	1825057-1
ADE0404	4			1825057-3
ADE04S04		SMT		1825058-7
ADE0604	6	THT		1825057-5
ADE0804	8			1825057-7
ADE08S04		SMT		1-1825058-9
ADE1004	10	THT		1825057-9

### ADF Series



Product key	Positions	Mounting	Packaging	Part number
<b>ADF flush actuator</b>				
ADF0204	2	THT	tube	1825002-1
ADF0404	4			1825002-5
ADF0604	6			1825002-9
ADF0804	8			1-1825002-3
ADF1004	10			1-1825002-7
<b>ADF flush actuator with seal tape</b>				
ADF02STTR04	2	SMT	tape and reel	1825059-6
ADF04STTR04	4			1-1825059-8
ADF06STTR04	6			3-1825059-0
ADF08STTR04	8			4-1825059-2
ADF10STTR04	10			5-1825059-4

## Preferred Part Numbers - DIP Switches, DIP Shunts, Rotary (Continued)

### ADP Series



Product key	Positions	Mounting	Packaging	Part number
ADP0204	2	THT	tube	1571999-1
ADP02STR04		SMT	tape and reel	1571999-4
ADP0404	4	THT	tube	1571999-6
ADP04STR04		SMT	tape and reel	1571999-9
ADP0604	6	THT	tube	1-1571999-6
ADP06STR04		SMT	tape and reel	1-1571999-9
ADP0804	8	THT	tube	2-1571999-6
ADP08STR04		SMT	tape and reel	2-1571999-9
ADP1004	10	THT	tube	3-1571999-6
ADP10STR04		SMT	tape and reel	3-1571999-9

### STV, STR Series



Product key	Positions	Mounting	Packaging	Part number
STV04	4	THT, vertical	tube	1977104-2
STV08	8			1977104-4
STR04	4	THT, horizontal		1977105-2
STR08	8			1977105-4

### DIP Series



Product key	Positions	Mounting	Packaging	Part number
DIP01	1	THT	tube	5161390-1
DIP02	2			5161390-2
DIP03	3			5161390-3
DIP04	4			5161390-4
DIP05	5			5161390-5
DIP08	8			5161390-8

### HTH DIP Shunts



Product key	Positions	Mounting	Packaging	Part number
HTH04	4	THT	tube	1825190-3
HTH08	8			1825190-7

### DIP-Fix



Product key	Positions	Mounting	Packaging	Part number
DIP-FIX-A104	4	THT	trays	1393546-4
DIP-FIX-A108	8			1393546-8
DIP-FIX-A124	24			1-1393546-3
DIP-FIX-A201	1 changeover			1-1393546-4
DIP-FIX-A202	2 changeover			1-1393546-5
DIP-FIX-A204	4 changeover			1-1393546-7
DIP-FIX-A212	12 changeover			2-1393546-0

### MRD Series



Product key	Positions	Mounting	Packaging	Part number
MRD1004	10/BCD	THT	tube	1825013-1
MRD10STR04		SMT	tape and reel	1-1825013-1
MRD10CSTR04	10/BCD compl.			1825013-6
MRD1604	16/Hex	THT	tube	1-1825013-1
MRD16STR04		SMT	tape and reel	2-1825013-0
MRD16CSTR04	16/Hex compl.			1-1825013-6

### DR-/D/M/S/W Series



Product key	Positions	Mounting	Packaging	Part number
DRD10CE04	10/BCD compl.	THT	tube	1825007-1
DRD10E04	10/BCD			1825007-6
DRD10SETR04		SMT	tape and reel	1-1825007-0
DRD16CE04	16/Hex compl.	THT	tube	1-1825007-1
DRD16E04	16/Hex			1-1825007-6
DRD16SETR04		SMT	tape and reel	2-1825007-0
DRM10RA04	10/BCD	THT	tube	1825008-6
DRM16RA04	16/Hex			1825008-8

## Preferred Part Numbers - Tactile Switches

### FSM . SM/JM Series, 3,5 x 6



Product key	Act. Force	Height	Mounting	Packaging	Part number
<b>FSM SM/JM</b>					
FSM2L	1.3 N	5 mm	THT	bulk	1825965-1
FSM1L		4.3 mm			1825966-1
FSM1SM	1.8 N		SMT		1437566-3
FSM1SMTR				tape and reel	1437566-4
FSM1JMTR		4.3 mm	SMT/J		147873-2
FSM2JMTR		5 mm			147873-1
<b>FSM SM/JM S, Sealed</b>					
FSM2S	1.3 N	5 mm	THT	bulk	1571297-1
FSM2SSMTR			SMT	tape and reel	1571298-2
FSM1SJMTR		4.3 mm	SMT/J		1571299-2
FSM2SJMTR		5 mm			1571299-4

### FSM . SM/JM LP Series, 4 x 6



Product key	Act. Force	Height	Mounting	Packaging	Part number
FSMJMLPTR	1.6 N	2.5 mm	SMT/J	tape and reel	1571528-1
FSMJMLPATR	2.6 N				1571528-2
FSMSMLPTR	1.6 N		SMT		1825086-1
FSMSMLPATR	2.6 N				1825086-2

## Preferred Part Numbers - Tactile Switches (Continued)

### FSM 6 x 6 Series



Product key	Act. Force	Height	Mounting	Packaging	Part number
<b>FSMJ Series</b>					
FSM2JH	1.6 N	4.3 mm	THT	bulk	1825910-2
FSM2JAH	2.6 N				1825910-3
<b>FSMCD, Square Button</b>					
FSMCD1H	1.6 N	7.5mm, □ 2.42mm	THT	bulk	1825967-1
FSMCD2H		7.5mm, □ 2.8mm			1825967-2
<b>FSMRACD, Square Button, Right Angle</b>					
FSMRACD1H	1.6 N	6.35mm, □ 2.42mm	THT	bulk	1825968-1
FSMRACD2H		6.35mm, □ 2.8mm			1825968-2
<b>FSMJSM, SMT Mounting</b>					
FSM2JSMLS	1.0 N	4.3 mm	SMT	bulk	1977223-1
FSM2JSMSTR				tape and reel	1977223-2
FSM2JSMAS	1.6 N			bulk	1977223-3
FSM2JSMASR				tape and reel	1977223-4
FSM2JSMAS	2.6 N			bulk	1977223-5
FSM2JSMASR				tape and reel	1977223-6
FSM4JSMXLS	0.7 N	5 mm		bulk	1-1977223-3
FSM4JSMXLSTR				tape and reel	1-1977223-4
FSM4JSMAS	1.6 N			bulk	1977223-9
FSM4JSMASR				tape and reel	1-1977223-0
FSM4JSMAS	2.6 N			bulk	1-1977223-1
FSM4JSMASR				tape and reel	1-1977223-2
FSM6JSMAS	1.6 N	7 mm		bulk	1-1977223-7
FSM6JSMASR				tape and reel	1-1977223-8
FSM6JSMAS	2.6 N			bulk	1-1977223-9
FSM6JSMASR				tape and reel	2-1977223-0
<b>FSMJEL, Extended Life, J-Lead</b>					
FSM2JELJ	1.6 N	2.5 mm	SMT/J	bulk	1571625-5
FSM2JELJTR				tape and reel	1571625-6
<b>FSMJEL, Extended Life, Gull Wing</b>					
FSM2JELG	1.6 N	2.5 mm	SMT/G	bulk	1571626-5
FSM2JELGTR				tape and reel	1571626-6
<b>FSMJEL, Extended Life, Gull Wing, Ground Terminal</b>					
FSM2JELGE	1.6 N	2.5 mm	SMT/G	bulk	1571636-5
FSM2JELGETR				tape and reel	1571636-6
<b>FSM1LP, Low Profile</b>					
FSM1LPS	1.6 N	3.09 mm	SMT	bulk	1977263-1
FSM1LPSTR				tape and reel	1977263-2
FSM1LPAS	2.6 N			bulk	1977263-3
FSM1LPASTR				tape and reel	1977263-4
<b>FSMJJS, Sealed 7.6 mm</b>					
FSM1JSSM	1.6 N	3.3 mm	SMT	bulk	1571296-1
FSM1JSSMTR				tape and reel	1571296-2
FSM2JS		4.3 mm	THT	bulk	1571295-1
FSM2JSSM			SMT	1571294-1	
FSM2JSSMTR				tape and reel	1571294-2
FSM4JS		5 mm	THT	bulk	1571295-2
FSM4JSSM			SMT	1571294-3	
FSM4JSSMTR				tape and reel	1571294-4
<b>FSMJJS, Sealed 6 mm</b>					
FSM1JS6	1.6 N	4.3 mm	THT	bulk	1977121-1
FSM2JS6SM			SMT	1977265-1	
FSM2JS6SMTR				tape and reel	1977265-2
<b>FSMRAJS, Sealed Right Angle</b>					
FSMRAJS1SM	2.6 N		SMT	bulk	1571407-1
FSMRAJS1SMTR				tape and reel	1571407-2
<b>FSMRAJ, Right Angle</b>					
		Shaft length			
FSMRA1JH	1.6 N	0.55 mm	THT	bulk	1825027-2
FSMRA2JH		1.25 mm			1825027-5
FSMRA3JH		3.25 mm			1825027-8
FSMRA4JH		5.74 mm			1-1825027-1
FSMRA5JH		3.55 mm			1-1825027-4
FSMRA6JH		4.25 mm			1-1825027-7
FSMRA7JH		9.25 mm			2-1825027-0
FSMRA8JH		13.26 mm			2-1825027-3

## Preferred Part Numbers - Tactile Switches (Continued)

### FSM 10 Series, 12 x 12



Product key	Act Force	Height	Mounting	Packaging	Part number
<b>FSM10</b>					
FSM100	1.6 N	4.3 mm	THT	bulk	1437565-2
FSM101		7.5 mm			1437565-3
FSM102		12 mm			1437565-4
FSM103		7.3 mm	THT, square button		1437565-5
FSM104		-	THT, right angle		1437565-6
<b>FSM10, Sealed</b>					
FSM100SSM	1.6 N	4.3 mm	SMT	bulk	1571218-1
FSM100SSMTR				tape and reel	1571218-3
FSM100S			THT	bulk	1571220-1

### FSM Turtle



Product key	Act Force	Height	Mounting	Packaging	Part number
FSMMST	1.6 N	1.8 mm	SMT	bulk	1571262-1
FSMMSTTR				tape and reel	1571262-2

### FSMMSH Series



Product key	Act Force	Height	Mounting	Packaging	Part number
FSMMSHPTR	1.6 N	3.3 mm	SMT, w/loc. pegs	tape and reel	1977066-1
FSMMSHTR			SMT, no pegs		1977067-1

### FSM . MS Series



Product key	Act Force	Height	Mounting	Packaging	Part number
FSM1MSJMPTR	2.2±.8 N	1.5 mm	SMT/J w/loc	tape and reel	1571908-1
FSM1MSJMTR			SMT/J wo/loc		1571908-2
FSM2MSSMATR	2.5±.5 N	1.65 mm	SMT wo/loc		1571895-1
FSM3MSJMPTR	2.2±.8 N		SMT/J w/loc		1571910-1
FSM3MSJMTR			SMT/J wo/loc		1571910-2
FSM3MSSMPTR			SMT w/loc		1571909-1
FSM3MSSMTR			SMT wo/loc		1571909-2

### FSMCT Series



Product key	Act Force	Height	Mounting	Packaging	Part number
FSMCTTR	1.6 N	1.5 mm	SMT	tape and reel	8-1437565-0
FSMCTATR	2.6 N				8-1437565-1

### FSMLPU



Product key	Act Force	Height	Mounting	Packaging	Part number
FSMLPUTR	1.6 N	0.5 mm	SMT	tape and reel	1825534-1

## Preferred Part Numbers - Slide Switches

### ASE Series



Product key	Type	Contact material	Mounting	Part number
<b>ASE</b>				
ASE2204	DPDT	Ag	THT	1825010-1
ASE22G04		Au		1825010-2
ASE22GL04			SMT/L	1825010-5
ASE22GS04			SMT/rev. L	1825010-7
ASE22L04		Ag	SMT/L	1825010-6
ASE22S04			SMT/rev. L	1825010-8
ASE4204	4PDT		THT	1-1825010-3
ASE42G04		Au		1-1825010-4
ASE42GL04			SMT/L	1-1825010-7
ASE42L04		Ag		1-1825010-8
ASE42S04			SMT/rev. L	2-1825010-0
ASE6204	6PDT		THT	3-1825010-7
ASE62G04		Au		3-1825010-8
ASE62GL04			SMT/L	4-1825010-1
ASE62L04		Ag		4-1825010-2
<b>ASE Side Actuator</b>				
ASE22R04	DPDT	Ag	THT	1825010-3
ASE22RG04		Au		1825010-4
ASE22RGS04			SMT/rev. L	1-1825010-1
ASE22RL04		Ag	SMT/L	1-1825010-0
ASE22RS04			SMT/rev. L	1-1825010-2
ASE42R04	4PDT		THT	1-1825010-5
ASE42RG04		Au		1-1825010-6
ASE42RGL04			SMT/L	2-1825010-1
ASE42RL04		Ag		2-1825010-2
ASE42RS04			SMT/rev. L	2-1825010-4
ASE43R04	4P3T		THT	2-1825010-7
ASE43RG04		Au		2-1825010-8
ASE62R04	6PDT	Ag		3-1825010-9
ASE62RG04		Au		4-1825010-0
ASE62RGL04			SMT/L	4-1825010-5
ASE62RL04		Ag		4-1825010-6

### ASF Series



Product key	Type	Contact material	Mounting	Part number
<b>ASF</b>				
ASF2204	DPDT	Ag	THT	1825011-1
ASF22G04		Au		1825011-2
ASF22GL04			SMT/L	1825011-5
ASF22GS04			SMT/rev. L	1825011-9
ASF22L04		Ag	SMT/L	1825011-7
ASF22S04			SMT/rev. L	1-1825011-1
ASF4204	4PDT		THT	2-1825011-1
ASF42G04		Au		2-1825011-2
ASF42GL04			SMT/L	2-1825011-5
ASF42L04		Ag		2-1825011-7
ASF42S04			SMT/rev. L	3-1825011-1
ASF6204	6PDT		THT	6-1825011-1
ASF62G04		Au		6-1825011-2
ASF62GL04			SMT/L	6-1825011-5
ASF62L04		Ag		6-1825011-7
ASF62S04			SMT/rev. L	7-1825011-1
<b>ASF Side Actuator</b>				
ASF22R04	DPDT	Ag	THT	1825011-3
ASF22RG04		Au		1825011-4
ASF22RGL04			SMT/L	1-1825011-3
ASF22RGS04			SMT/rev. L	1-1825011-7
ASF22RS04		Ag		1-1825011-9
ASF42R04	4PDT			THT
ASF42RG04		Au		2-1825011-4
ASF42RGL04			SMT/L	3-1825011-3
ASF42RL04		Ag		3-1825011-5
ASF42STRO4			SMT/rev. L	3-1825011-2
ASF62R04	6PDT		THT	6-1825011-3
ASF62RG04		Au		6-1825011-4
ASF62RGL04			SMT/L	7-1825011-3
ASF62RGS04			SMT/rev. L	7-1825011-7

## Preferred Part Numbers - Slide Switches (Continued)

### S, SE Series



Product key	Type	Mounting	Packaging	Part number
<b>S</b>				
S1EGPC04	1 Pole, On-Off-On	THT	bulk	5-1571005-2
S2EGPC04	2 Pole, On-Off-On			5-1571005-4
<b>S Right Angle</b>				
S1EGRA04	1 Pole, On-Off-On	THT	bulk	5-1571006-2
S2EGRA04	2 Pole, On-Off-On			5-1571006-4
<b>SE Sealed</b>				
SE1EGPC04	1 Pole, On-Off-On	THT	bulk	1825032-2
SE2EGPC04	2 Pole, On-Off-On			1825032-4
SE1GSMTR04	1 Pole, On-Off	SMT	tape and reel	5-1571004-4
SE1EGSMTR04	1 Pole, On-Off-On			5-1571004-5
<b>SE Sealed Right Angle</b>				
SE1EGRA04	1 Pole, On-Off-On	THT	bulk	1825031-2
SE2EGRA04	2 Pole, On-Off-On			1825031-4

### STS, SDS Series



Product key	Type	Mounting	Throw function	Part number
STS121PC04	SPDT	THT		1825159-1
STS1300PC04	SP3T		common pin 2	1825161-1
STS131PC04				1825159-2
STS1400PC04	SP4T		common pin 3	1825161-2
STS141PC04				1825159-3
STS151PC04	SP5T			1825159-4
STS161PC04	SP6T			1825159-5
STS220PC04	DPDT			1825163-1
STS2300PC04	DP3T		common pin 2	1825164-1
STS230PC04				1825163-2
STS2400PC04	DP4T		common pin 3	1825165-1
STS240PC04				1825163-3
STS250PC04	DP5T			1825163-4
STS260PC04	DP6T			1825163-5

### TSS Series



Product key	Type	Positions	Packaging	Part number
<b>TSS Single</b>				
TSS11DGPC04	SPDT	On-None-On	bulk	1571982-1
TSS11EGPC04		On-Off-On		1571982-4
<b>TSS Single, Flush actuator</b>				
TSS11DG1PC04	SPDT	On-None-On	bulk	1571982-2
TSS11EG1PC04		On-Off-On		1571982-3
<b>TSS Dual</b>				
TSS21KGPC04	DPST	On-None-Off	bulk	1571982-5
TSS21NGPC04	DPDT	On-None-On		1571982-7
TSS21PGPC04		On-Off-On		1571982-9
<b>TSS Dual, Flush actuator</b>				
TSS21NG1PC04	DPST	On-None-Off	bulk	1571982-6
TSS21PG1PC04	DPDT	On-None-On		1571982-8
TSD21DDGPC04		On-Off-On		1825015-1

### MSS, MSSA Series



Product key	Type	Contact material	Version	Part number
MSS120004	SPDT	Ag	vertical	1825257-1
MSS1200G04		Au		1825257-2
MSS1200R04		Ag	right angle	1825258-1
MSS1200RG04		Au		1825258-2
MSS130004	SP3T	Ag	vertical	1825259-1
MSS1300G04		Au		1825259-2
MSS1300R04		Ag	right angle	1825260-1
MSS1300RG04		Au		1825260-2
MSS140004	SP4T	Ag	vertical	1571423-2
MSS222504	DPDT			1825262-1
MSS2225G04		Au		1825262-2
MSS420004	4PDT	Ag		1825264-1
MSS4200G04		Au		1825264-2
MSS4200R04		Ag	right angle	1825265-1
MSS4200RG04		Au		1825265-2
MSS430004	4P3T	Ag	vertical	1825267-1
MSS4300G04		Au		1825267-2
MSS4300R04		Ag	right angle	1825268-1
MSS4300RG04		Au		1825268-2
MSS620004	6PDT	Ag	vertical	1825271-1
MSS6200G04		Au		1825271-2
MSS635004	6P3T	Ag		1825273-1
MSS6350R04			right angle	1825274-1

### Preferred Part Numbers - Slide Switches (Continued)

#### MSSA-01/04



Product key	Type	Contact material	Positions	Part number
MSSA111DG	SPDT	Au	On-None-On	2-1437580-9
MSSA111EG			On-Off-On	3-1437580-0
MSSA114D		Ag	On-None-On	3-1437580-1
MSSA114E			On-Off-On	3-1437580-2
MSSA211NG	DPDT	Au	On-None-On	4-1437580-9
MSSA211N			Ag	5-1437580-2

#### MHS Series



Product key	Type	Contact material	Positions	Part number
<b>MHS</b>				
MHS12204	SPDT	Ag	On-None-On	1825255-1
MHS122G04		Au		1825255-2
MHS12304		Ag	On-Off-On	1825255-5
MHS13304			On-On-On	1825255-7
MHS133G04		Au		1825255-8
MHS22204			DPDT	On-None-On
MHS222G04		Au		1825289-2
MHS22304		On-Off-On	1825289-5	
MHS223G04		Au		1825289-6
MHS23304		DP3T	On-On-On	1825289-8
MHS233G04		Au		1825289-9
<b>MHS Right Angle</b>				
MHS122GRA04	SPDT	Au	On-None-On	1825256-4
MHS122RA04		Ag		1825256-1
MHS123GRA04		Au	On-Off-On	1825256-5
MHS123RA04		Ag		1825256-2
MHS133GRA04	SP3T	Au	On-On-On	1825256-6
MHS133RA04		Ag		1825256-3
MHS222GRA04	DPDT	Au	On-None-On	1825290-4
MHS222RA04		Ag		1825290-1
MHS223GRA04		Au	On-Off-On	1825290-5
MHS223RA04		Ag		1825290-2
MHS233GRA04	DP3T	Au	On-On-On	1825290-6
MHS233RA04		Ag		1825290-3

#### SSJ Series



Product key	Type	Contact material	Style	Part number
SSJ1204	SPDT	Ag	vertical	1825280-1
SSJ12R04			right angle	1825282-1
SSJ1304	SP3T		vertical	1825283-1

#### SSA Series



Product key	Type	Contact material	Style	Part number
SSA1204	SPDT	Ag	vertical	1571981-1
SSA12G04		Au		1571981-2
SSA2204	DPDT	Ag		1571981-3
SSA22G04		Au		1571981-4

#### SLS/SL/SLSA Series



Product key	Type	Mounting	Style	Part number
SLS121PC04	SPDT	THT	vertical	1825115-1
SLS121RA04			right angle	1825116-1
SLS131PC04	SP3T		vertical	1825117-1
SLS131RA04			right angle	1825118-1
SLS141PC04	SP4T		vertical	1825119-1
SLS141RA04			right angle	1825120-1
SLS151PC04	SP5T		vertical	1825121-1
SLS151RA04			right angle	1825122-1
SLS220PC04	DPDT		vertical	1825080-1
SLS230PC04	DP3T			1825080-2
SLS240PC04	DP4T			1825080-3
SLS250PC04	DP5T			1825080-4
SLS260PC04	DP6T			1825080-5

#### MLL Series



Product key	Type	Mounting	Packaging	Part number
MLL1200S	SPDT	SMT	tube	1437575-1
MLL1200STR			tape and reel	1437575-2

## Preferred Part Numbers - Toggle Switches

### TST Series



Product key	Type	Contact material	Positions	Part number
<b>TST</b>				
TST11DGPC1D04	1 Pole, PCB	Ag	On-None-On	1825455-1
<b>TST, Right Angle</b>				
TST11DGRA1D04	1 Pole	Ag	On-None-On	1825455-3
TST11DGVRA1D04	1 Pole Vertical r.a.			1825455-4

### TT Series



Product key	Type	Contact material	Positions	Part number
<b>TT</b>				
TT13A2T04	1 Pole, Wire Lugs	Ag	On-None-Off	1825222-2
TT13D2T04			On-None-On	1825222-3
TT13E2T04			On-Off-On	1825222-4
TT23K2T04	2 Pole, Wire Lugs		On-None-Off	1825222-6
TT23N2T04			On-None-On	1825222-7
TT11AGPC104	1 Pole, PCB		On-None-Off	1825219-2
TT11DGPC104			On-None-On	1825219-3
TT11EGPC104			On-Off-On	1825219-6
TT21KGPC104	2 Pole, PCB		On-None-Off	1-1825219-0
TT21NGPC104			On-None-On	1-1825219-1
<b>TT Right Angle</b>				
TT11DGVRA104	1 Pole, PCB	Ag	On-None-On	1825219-5
TT11EGVRA104	2 Pole, PCB		On-Off-On	1825219-9

### Gemini Series A



Product key	Type	Contact material	Positions	Part number
<b>Gemini A</b>				
A101SYCB04	1 Pole, PCB	Au	On - On	4-1825136-4
A101SYCQ04		Ag		4-1825136-5
A101SYZB04	1 Pole, Wire Lug	Au		4-1825136-8
A101SYZQ04		Ag		4-1825136-9
A103SYCB04	1 Pole, PCB	Au	On - Off - On	1-1825137-5
A103SYCQ04		Ag		1-1825137-6
A103SYZB04	1 Pole, Wire Lug	Au		1-1825137-9
A103SYZQ04		Ag		2-1825137-0
A201SYCB04	2 Pole, PCB	Au	On - On	2-1825138-4
A201SYCQ04		Ag		2-1825138-5
A201SYZB04	2 Pole, Wire Lug	Au		2-1825138-7
A201SYZQ04		Ag		2-1825138-8
A203SYCB04	2 Pole, PCB	Au	On - Off - On	1825139-8
A203SYCQ04		Ag		1825139-9
A203SYZQ04	2 Pole, Wire Lug			1-1825139-0
A211SYCQ04	2 Pole, PCB		On - On - On	3-1825139-7
A211SYZQ04	2 Pole, Wire Lug			3-1825139-9
<b>Gemini A, Right Angle</b>				
A101SYAV2B04	1 Pole, PCB	Au	On - On	1825136-8
A103SYAV2B04			On - Off - On	2-1825136-5
A103SYAV2Q04		Ag		1-1825137-4

### Gemini Series AE



Product key	Type	Contact material	Positions	Part number
<b>Gemini AE</b>				
AE101SD1CB04	1 Pole, PCB	Au	On-On	2-1825142-0
AE101SD1CQ04		Ag		2-1825142-1
AE103SD1CB04		Au	On-Off-On	3-1825142-0
AE103SD1CQ04		Ag		3-1825142-1
AE201SD1CB04	2 Pole, PCB	Au	On-On	1-1825143-0
AE201SD1CQ04		Ag		1-1825143-1
AE203SD1CB04		Au	On-Off-On	1-1825143-9
<b>Gemini AE, Right Angle</b>				
AE101SD1AV2B04	1 Pole, PCB	Au	On-On	1-1825142-8
AE101SD1AV2Q04		Ag		1-1825142-9
AE103SD1AV2B04		Au	On-Off-On	2-1825142-9
AE201SD1AV2B04		2 Pole, PCB		
AE203SD1AV2B04			On-Off-On	1-1825143-7
AE203SD1AV2Q04		Ag		1-1825143-8

## Preferred Part Numbers - Toggle Switches, Push Buttons

### MT Series



Product key	Type	Contact material	Position	Part number
<b>MTA</b>				
MTA306D04	3PDT, wire lug	Ag gold flash	On-None-On	3-1571920-0
MTA306DPC04	3PDT, THT			3-1571920-1
MTA306E04	3PDT, wire lug		On-Off-On	3-1571920-2
MTA306EPC04	3PDT, THT			3-1571920-3
MTA406N04	4PDT, wire lug		On-None-On	3-1571920-8
MTA406NPC04	4PDT, THT			3-1571920-9
MTA406P04	4PDT, wire lug		On-Off-On	4-1571920-0
MTA406PPC04	4PDT, THT			4-1571920-3
<b>MTA Right Angle</b>				
MTA8106DVRA04	SPDT, THT	Ag gold flash	On-None-On	1571922-4
MTA8106EVRA04			On-Off-On	1571922-8
<b>MTE (Sealed)</b>				
MTE306D04	3PDT, wire lug	Ag gold flash	On-None-On	1-1571924-6
MTE306E04			On-Off-On	1-1571924-7
MTE406N04	4PDT, wire lug		On-None-On	1-1571924-8
MTE406P04			On-Off-On	1-1571924-9

### AW Series



Product key	Type	Contact material	Position	Part number
AWTD1504	1 pole, tab	Ag	On-On	7-6437630-0
AWTN1504	2 pole, tab			
AWTR1504			On-(On)	5-6437630-0
AWTS1504			(On)-Off-(On)	1-6437630-1
AWTT1504			On-Off-(On)	1-6437630-0

### F Series



Product key	Type	Contact material	Position	Part number
FTD0904	1 pole, std.	Ag	On-On	2-6437630-0
FTD09G04		Au		3-6437630-4
FTD5904	1 pole, locking	Ag		1-6437630-5
FTD59G04		Au		4-6437630-0
FTD7904	1 pole, Long	Ag		5-6437630-3
FTE0904	1 pole, std.		On-Off-On	6-6437630-2
FTH0904			On-Off-(On)	4-6437630-8
FTN0904	2 pole, std.		On-On	4-6437630-2
FTN5904	2 pole, locking			3-6437630-9
FTN59G04		Au		6-6437630-1
FTP0904	2 pole, std.	Ag	On-Off-On	4-6437630-6
FTP0904			On-On-On	4-6437630-5
FTS0904			(On)-Off-(On)	4-6437630-3
F4TN0904	4 pole, std.			3-6437630-5

### TP Series



Product key	Type	Contact material	Version	Part number
<b>TPA</b>				
TPA11CGPC004	SPST, THT	Au	Rnd. no bushing	1825096-1
TPA11FGPC004	SPDT, THT			1825096-7
<b>TPA, Right Angle</b>				
TPA11CGRA004	SPST, THT	Au	Rnd. no bushing	1825096-4
TPA11FGRA004	SPDT, THT			1-1825096-0
<b>TPB</b>				
TPB11CGPC004	SPST, THT	Au	Rnd. 0.188", unthreaded	1825097-1
TPB11FGPC004	SPDT, THT			1825097-9
TPB21MGPC004	DPST, THT			1-1825097-7
<b>TPB, Right Angle</b>				
TPB11CGRA004	SPST, THT	Au	Rnd. 0.188", unthreaded	1825097-6
TPB11FGRA004	SPDT, THT			1-1825097-1

## Preferred Part Numbers - Push Buttons

### MP Series



Product key	Type	Mounting	Function	Part number
<b>MPA</b>				
MPA106D04	SPDT	Wire Lug	Push On/ Push Off	1825040-1
MPA106DPC04		THT		1825040-3
MPA106F04		Wire Lug	Momentary	1825040-2
MPA106FPC04		THT		1825040-4
MPA206N04	DPDT	Wire Lug	Push On/ Push Off	1825040-5
MPA206NPC04		THT		1825040-6
MPA206R04		Wire Lug	Momentary	1825040-7
MPA206RPC04		THT		1825040-8
MPA306D04	3PDT	Wire Lug	Push On/ Push Off	1825040-9
MPA306F04			Momentary	1-1825040-0
MPA406N04	4PDT		Push On/ Push Off	1-1825040-1
MPA406R04			Momentary	1-1825040-2
<b>MPE (Splash proof)</b>				
MPE106D04	SPDT	Wire Lug	Push On/ Push Off	1825041-1
MPE106F04			Momentary	1825041-2
MPE206N04	DPDT		Push On/ Push Off	1825041-3
MPE206R04			Momentary	1825041-4
MPE306D04	3PDT		Push On/ Push Off	1825041-5
MPE306F04			Momentary	1825041-6
MPE406N04	4PDT		Push On/ Push Off	1825041-7
MPE406R04			Momentary	1825041-8
<b>MPG</b>				
MPG106D04	SPDT	Wire Lug	Push On/ Push Off	1825042-1
MPG106F04			Momentary	1825042-3
MPG206N04	DPDT		Push On/ Push Off	1825042-5
MPG206NPC04			THT	1825042-6
MPG206R04		Wire Lug	Momentary	1825042-7
MPG206RPC04		THT		1825042-8
MPG306D04	3PDT	Wire Lug	Push On/ Push Off	1825042-9
MPG306F04			Momentary	1-1825042-0
MPG406N04	4PDT		Push On/ Push Off	1-1825042-1
MPG406R04			Momentary	1-1825042-2

## Preferred Part Numbers - Micro Switches

### MP Miniature Micro Switch



Product key	Terminals	Contacts	Actuator	Operating/Release	Part number
MP16DTCOLG	spade terminal	SPDT 16 A	pin plunger	2.0 N / 0.5 N	1-1478607-1
MP16DTCNLD			normal lever		1-1478607-3
MP16DTCNRD			normal roller		1-1478607-6
MP16DTCAMD			simulator lever		1-1478607-7

### SP Sub Miniature Micro Switch



Product key	Terminals	Contacts	Actuator	Operating/Release	Part number
SP5DTBOLE	PCB	SPDT 5 A	pin plunger	1.5 N / 0.2 N	1-1478601-1
SP5DTBNLC			normal lever		1-1478601-2
SP5DTBNRD			normal roller		1-1478601-4
SP5DTBSMA			simulator lever		1-1478601-5

### UP Ultra Miniature Micro Switch



Product key	Terminals	Contacts	Actuator	Operating/Release	Part number
UP3DTANLA04	PCB	SPDT	normal lever	0.5 N / 0.08 N	1-1825043-5
UP3DTAOLA04		3A	pin plunger	1.5 N / 0.2 N	1-1825043-3
UP01DTANLA04		SPDT	normal lever	0.5 N / 0.08 N	1825043-3
UP01DTAOLA04		0.1A	pin plunger	1.5 N / 0.2 N	1825043-1

## Preferred Part Numbers - Power Rocker Switches

### PRA Series



Product key	Switch function	Rocker color	Text pattern	Part number
<b>PRA Series, 13.0x19.2mm panel cutout, 10A single pole</b>				
PRASA1-16F-BB000	On-Off, opaque	black	not applicable	1571076-9
PRASA1-16F-BB0BW			0 - , white printing	1-1571076-0
PRASA1-16F-BB0CW			0 I , white printing	1-1571076-1
PRASA1-16F-BR000		red	not applicable	6-1571076-5
PRASA1-16F-BB0HW		black	ON OFF, white pr.	2-1571076-0
PRASD1-16F-BB000			not applicable	1571079-4
PRASD1-16F-BB0DW			- = , white printing	1571079-5
PRASD1-16F-BB0EW			I II , white printing	1571079-6
PRASD3-16F-BB000	On-Off-On, opaque		not applicable	1571079-7
PRASD3-16F-BB0FW			- 0 = , white printing	1571079-8
PRASD3-16F-BB0GW			I 0 II , white printing	1571079-9
PRASD2-16F-BB000	On-(On), opaque		not applicable	1-1571079-0
PRASD2-16F-BB0DW			- = , white printing	1-1571079-1
PRASD2-16F-BB0EW			I II , white printing	1-1571079-2
PRASD4-16F-BB000	On-Off-(On), opaque		not applicable	1-1571079-3
PRASD4-16F-BB0FW			- 0 = , white printing	1-1571079-4
PRASD4-16F-BB0GW			I 0 II , white printing	1-1571079-5
<b>PRA Series, 13.0x19.2mm panel cutout, 6A double pole</b>				
PRADA1-12F-BB000	On-Off, opaque	black	not applicable	1977068-1
PRADA1-12F-BB0BW			0 - , white printing	1977068-2
PRADA1-12F-BB0CW			0 I , white printing	1977068-3
PRADA1-12F-BR000		red	not applicable	1977068-4
PRADA1-12F-BR0BW			0 - , white printing	1977068-5
PRADD1-12F-BB000		black	not applicable	1977069-1
PRADD1-12F-BB0DW			- = , white printing	1977069-2
PRADD1-12F-BB0EW			I II , white printing	1977069-3
PRADD3-12F-BB000	On-Off-On, opaque		not applicable	1977069-4
PRADD3-12F-BB0FW			- 0 = , white printing	1977069-5
PRADD3-12F-BB0GW			I 0 II , white printing	1977069-6
PRADD2-12F-BB000			not applicable	1977069-7
PRADD2-12F-BB0DW	On-(On), opaque		- = , white printing	1977069-8
PRADD2-12F-BB0EW			I II , white printing	1977069-9
PRADD4-12F-BB000	On-Off-(On), opaque		not applicable	1-1977069-0
PRADD4-12F-BB0FW			- 0 = , white printing	1-1977069-1
PRADD4-12F-BB0GW			I 0 II , white printing	1-1977069-2

### PRC Series



Product key	Switch function	Rocker color	Text pattern	Part number
PRCSA1-20F-BB0BW	On-Off, opaque	black	0 - , white printing	1571095-2
PRCSD1-20F-BB0DW	On-On, opaque		- = , white printing	1571100-2
PRCDA1-20F-BB0BW	On-Off, opaque		0 - , white printing	1571102-2
PRCDD1-20F-BB0DW	On-On, opaque		- = , white printing	1571099-2

### PRE Series



Product key	Switch function	Rocker color	Text pattern	Part number
PRED A1-07F-BB000	On-Off, opaque	black	not applicable	1634200-1
PRED A1-07F-BB0BW			0 - , white printing	1634200-2
PRED A1-07F-BB0CW			0 I , white printing	1634200-3
PREDB1-07F-BR000	On-Off, illuminated	red	not applicable	1634200-7
PREDB1-07F-BG000		green		1634200-9
PREDD1-07F-BB000	On-On, opaque	black		1-1634200-1
PREDD1-07F-BB0DW			I II , white printing	1-1634200-2
PREDD1-07F-BB0EW			- = , white printing	1-1634200-3
PREDD3-07F-BB0FW	On-Off-On, opaque		I 0 II , white printing	1-1634200-7
PREDD3-07F-BB0GW			- 0 = , white printing	1-1634200-8
PREDD4-07F-BB000	On-Off-(On), opaque		not applicable	2-1634200-1
PREDD4-07F-BB0FW			I 0 II , white printing	2-1634200-2
PREDD4-07F-BB0GW			- 0 = , white printing	2-1634200-3
PREDD5-07F-BB000	(On)-Off-(On), opaque		not applicable	2-1634200-4
PREDD5-07F-BB0FW			I 0 II , white printing	2-1634200-5
PREDD5-07F-BB0GW			- 0 = , white printing	2-1634200-6

## Preferred Part Numbers - Power Rocker Switches (Continued)

### PRF Series



Product key	Switch function	Rocker color	Text pattern	Part number
PRFDA1-16F-BB000	On-Off, opaque	black	not applicable	1634201-1
PRFDA1-16F-BB0BW			0 - , white printing	1634201-2
PRFDA1-16F-BB0CW			0 I , white printing	1634201-3
PRFDB1-16F-BR000	On-Off, illuminated	red	not applicable	1634201-4
PRFDB1-16F-BG000		green		1634201-5
PRFDB1-16F-BY000		yellow		1634201-6
PRFDD1-16F-BB000	On-On, opaque	black		1634201-7
PRFDD1-16F-BB0DW			I II , white printing	1634201-8
PRFDD1-16F-BB0EW			- = , white printing	1634201-9
PRFDD3-16F-BB000	On-Off-On, opaque		not applicable	1-1634201-0
PRFDD3-16F-BB0FW			I O II , white printing	1-1634201-1
PRFDD3-16F-BB0GW			- O = , white printing	1-1634201-2

### PRG Series



Product key	Switch function	Rocker color	Text pattern	Part number
PRGSB1-16F-BG000	On-Off, illuminated	green	not applicable	1634202-6
PRGSB1-16F-BR000		red		1634202-5
PRGSA1-16F-BR000	On-Off, opaque			1634202-4
PRGSA1-16F-BB0BW		black	0 - , white printing	1634202-3
PRGSA1-16F-BB0AW			• , white printing	1634202-2
PRGSA1-16F-BB000			not applicable	1634202-1

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