



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.

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



DIP-Fix

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



| Shunts, DIP-Fix | |
|------------------------------|-----------------|
| Standard number of positions | 4, 6, 8, 10, 12 |
| Mounting style | THT |
| Tape seal | No |
| Contact rating | up to 2 A |
| Electrical endurance | - |
| Operating temperature range | -30...+85°C |
| Dimensions (WxH) | 6.0 x 2.0 mm |
| Packaging | Tube |

| | |
|------------------------------|-----------------|
| Standard number of positions | 4, 6, 8, 10, 12 |
| Mounting style | THT |
| Tape seal | No |
| Contact rating | up to 2 A |
| Electrical endurance | - |
| Operating temperature range | -30...+85°C |
| Dimensions (WxH) | 6.0 x 2.0 mm |
| Packaging | Tube |

| | |
|------------------------------|------------------|
| Standard number of positions | 1-10, 12, 16, 24 |
| Mounting style | THT |
| Tape seal | No |
| Contact rating | up to 0.5 A |
| Electrical endurance | 50 ops. |
| Operating temperature range | -40...+85°C |
| Dimensions (WxH) | 12.4 x 8.1 mm |
| Packaging | Tray |

MRD Series

- Low profile
- Process sealed
- 7 mm edge length



DR-/D/M/S/W Series

- Process sealed
- 10 mm edge length



| Rotary Dips | |
|------------------------------|----------------------------------|
| Right angle versions | for THT version only |
| Standard number of positions | 10, 16 |
| Mounting style | THT, SMT |
| Actuator style | Flush actuator only |
| Flush actuator versions | Yes |
| Output Code | BCD, BCD compl., Hex, Hex compl. |
| Tape seal | Optional |
| Contact rating | 20 mA @ 20 Vdc |
| Electrical endurance | 20,000 ops. |
| Operating temperature range | -30...+85°C |
| Dimensions (LxWxH) | 7 x 7 x 3.3 mm |
| Packaging | Tube, Tape and Reel |

| | |
|------------------------------|----------------------------------|
| Right angle versions | for THT version only |
| Standard number of positions | 10, 16 |
| Mounting style | THT, SMT |
| Actuator style | Flush actuator only |
| Flush actuator versions | Yes |
| Output Code | BCD, BCD compl., Hex, Hex compl. |
| Tape seal | Optional |
| Contact rating | 20 mA @ 20 Vdc |
| Electrical endurance | 20,000 ops. |
| Operating temperature range | -30...+85°C |
| Dimensions (LxWxH) | 7 x 7 x 3.3 mm |
| Packaging | Tube, Tape and Reel |

| | |
|------------------------------|---|
| Right angle versions | for THT version only |
| Standard number of positions | 10, 16 |
| Mounting style | THT, SMT |
| Actuator style | Flush, Mini plastic shaft, Wheel, Metal shaft |
| Flush actuator versions | Yes |
| Output Code | BCD, BCD compl., Hex, Hex compl. |
| Tape seal | Optional |
| Contact rating | 20 mA @ 20 Vdc |
| Electrical endurance | 20,000 ops. |
| Operating temperature range | -30...+85°C |
| Dimensions (LxWxH) | 10 x 10 x 6.8 mm |
| Packaging | 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 | |
| Mounting style | |
| Right angle versions | |
| Low profile versions | |
| Flush actuator version | |
| Different actuator styles | |
| ESD grounding term./locating post | |
| Sealed versions | |
| Standard actuation force | |
| Electrical endurance | |
| Operating temperature range | |
| Dimensions horizontal ver. (LxWxH) | |
| Dimensions sealed ver. (LxWxH) | |
| Packaging | |

FSM 10 Series

- Different actuator and mounting versions



| | |
|------------------------------------|--------------------------|
| 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 |

Tactiles

| | |
|------------------------------------|--|
| Style | |
| Mounting style | |
| Right angle versions | |
| Low profile versions | |
| Flush actuator version | |
| Different actuator styles | |
| ESD grounding term./locating post | |
| Sealed versions | |
| Standard actuation force | |
| Electrical endurance | |
| Operating temperature range | |
| Dimensions horizontal ver. (LxWxH) | |
| Dimensions sealed ver. (LxWxH) | |
| Packaging | |

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 |

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 | |

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 | up to 2 |
| Number of throws | up to 3 |
| Contact timing | Make before Break |
| Right angle versions | Yes |
| Mounting style | THT |
| Actuator style | Standard and Baton |
| 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...+100°C |
| Dimensions (LxWxH) | 16.0 x 6.7 x 7.5 mm |
| Packaging | Tray |

SSJ Series

- Micro size
- Instrumentation grade



| | |
|-----------------------------|--------------------------|
| Number of poles | 1 |
| Number of throws | 3 |
| Contact timing | Make before Break |
| Right angle versions | Yes |
| Mounting style | THT |
| Actuator style | Standard |
| Flush actuator version | No |
| Tape seal | No |
| Contact rating | 100 mA @ 12 Vdc |
| Electrical endurance | 10,000 ops. |
| Operating temperature range | -10...+60°C |
| Dimensions (LxWxH) | 10.2...15.8 x 4 x 5.5 mm |
| Packaging | Tray |

SSA Series

- Micro size
- Instrumentation grade



| | |
|-----------------------------|---|
| Number of poles | up to 2 |
| Number of throws | 2 |
| Contact timing | Make before Break |
| Right angle versions | Yes |
| Mounting style | THT |
| Actuator style | Standard |
| Flush actuator version | No |
| Tape seal | No |
| Contact rating | Gold: 20 mA @ 20 Vdc Silver: 100 mA @ 30 Vac |
| Electrical endurance | up to 10,000 ops. |
| Operating temperature range | -20...+80°C |
| Dimensions (LxWxH) | 9.0...15.0 x 3.4...5.6 x 4.8 mm |
| Packaging | Bulk |

SLS/SL/SLSA Series

- Wiping contact
- Consumer grade



| Slide switch | |
|-----------------------------|---|
| Number of poles | up to 2 |
| Number of throws | up to 10 |
| Contact timing | Break before Make |
| Right angle versions | Yes |
| Mounting style | THT |
| Actuator style | Standard, Lever / Knob Actuator |
| Flush actuator version | No |
| Tape seal | No |
| Contact rating | SLS/SL: 250 mA @ 125 Vac, 150 mA @ 12 Vdc SLA: 500 mA @ 125 Vac |
| Electrical endurance | 10,000 ops. |
| Operating temperature range | SLS/SL: -10...+60°C, SLA: -20...+85°C |
| Dimensions (LxWxH) | refer to catalogue |
| Packaging | Bulk |

MLL Series

- Low profile



| | |
|-----------------------------|-----------------------|
| Number of poles | 1 |
| Number of throws | up to 3 |
| Contact timing | Make before Break |
| Right angle versions | Standard |
| Mounting style | SMT |
| Actuator style | Standard |
| Flush actuator version | No |
| Tape seal | No |
| Contact rating | 300 mA; 4 Vdc |
| Electrical endurance | 10,000 ops. |
| Operating temperature range | 20...+85°C |
| Dimensions (LxWxH) | 6.7...9.7 x 2.6 x 1.4 |
| Packaging | Tube, Tape and Reel |

Toggle Switches

TST Series

- Sub miniature toggle switch
- Sealed



| Toggles | |
|------------------------------|--------------------|
| Number of poles | 1 |
| Contact timing | Break before Make |
| Right angle versions | Yes |
| Standard number of positions | 2 or 3 |
| Terminals / Mounting style | THT |
| Actuator style | Various lengths |
| Contact rating | 20 mA @ 20 Vac/dc |
| Electrical endurance | 80,000 ops. |
| Operating temperature range | -30...+85°C |
| Dimensions case (LxWxH) | 8.1 x 5.0 x 9.1 mm |
| Packaging | Bulk |

| | |
|------------------------------|--------------------|
| Number of poles | 1 |
| Contact timing | Break before Make |
| Right angle versions | Yes |
| Standard number of positions | 2 or 3 |
| Terminals / Mounting style | THT |
| Actuator style | Various lengths |
| Contact rating | 20 mA @ 20 Vac/dc |
| Electrical endurance | 80,000 ops. |
| Operating temperature range | -30...+85°C |
| Dimensions case (LxWxH) | 8.1 x 5.0 x 9.1 mm |
| Packaging | Bulk |

TT Series

- Sub miniature toggle switch
- Boot seal available



| | |
|------------------------------|--|
| Number of poles | up to 4 |
| Contact timing | Break before Make |
| Right angle versions | right angle and vertical right angle |
| Standard number of positions | 2 or 3 |
| Terminals / Mounting style | THT, Wire lug, Wire wrap; Various bushings versions |
| Actuator style | Various lengths, round, flat, locking |
| Contact rating | Gold: 20 mA @ 20 Vdc Silver (2pos): 3A@125Vac, 28Vdc Silver (3pos): 2A@125Vac, 28Vdc |
| Electrical endurance | 60,000 ops. |
| Operating temperature range | -30...+85°C |
| Dimensions case (LxWxH) | 8.1 x 6 x 8.8...15.7 mm |
| Packaging | Bulk |

Gemini Series A

- Miniature toggle switch



| | |
|------------------------------|--|
| Number of poles | 1 or 2 |
| Contact timing | Break before Make |
| Right angle versions | right angle and vertical right angle |
| Standard number of positions | 2 or 3 |
| Terminals / Mounting style | THT, Wire lug, Quick connect, Wire wrap, Support brackets; Various bushings versions |
| Actuator style | different lengths, round, flat, locking; rocker style |
| Contact rating | 2 A @ 250 Vac |
| Electrical endurance | 40,000 ops. |
| Operating temperature range | -30...+85°C |
| Dimensions case (LxWxH) | 12.7 x 6.9...16.8 x 10.4 mm |
| Packaging | Bulk |

Gemini Series AE

- Miniature toggle switch sealed
- Meets requirements of IP67



| Toggles | |
|------------------------------|---|
| Number of poles | 1 or 2 |
| Contact timing | Break before Make |
| Right angle versions | right angle and vertical right angle |
| Standard number of positions | 2 or 3 |
| Terminals / Mounting style | THT, Wire lug, Quick connect, Wire wrap, Support brackets |
| Actuator style | different lengths, round, flat; rocker style |
| Contact rating | 2 A @ 250 Vac |
| Electrical endurance | 30,000 ops. |
| Operating temperature range | -30...+85°C |
| Dimensions case (LxWxH) | 12.7 x 6.6...11.4 x 10.3 mm |
| Packaging | Bulk |

| | |
|------------------------------|---|
| Number of poles | 1 or 2 |
| Contact timing | Break before Make |
| Right angle versions | right angle and vertical right angle |
| Standard number of positions | 2 or 3 |
| Terminals / Mounting style | THT, Wire lug, Quick connect, Wire wrap, Support brackets |
| Actuator style | different lengths, round, flat; rocker style |
| Contact rating | 2 A @ 250 Vac |
| Electrical endurance | 30,000 ops. |
| Operating temperature range | -30...+85°C |
| Dimensions case (LxWxH) | 12.7 x 6.6...11.4 x 10.3 mm |
| Packaging | Bulk |

MT Series

- Toggle switch



| | |
|------------------------------|--|
| Number of poles | up to 4 |
| Contact timing | Break before Make |
| Right angle versions | right angle and vertical right angle |
| Standard number of positions | 2 or 3 |
| Terminals / Mounting style | THT, Wire lug |
| Actuator style | Lengths, round, flat, Mustang, splash proof bat actuator, locking, decorative bat actuator |
| Contact rating | 3 A @ 250 Vac, 4 A @ 28 Vdc |
| Electrical endurance | 80,000 ops. |
| Operating temperature range | -20...+85°C |
| Dimensions case (LxWxH) | 13 x 8...22.5 x 11.5 mm |
| Packaging | 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 |
| Contact timing |
| Right angle versions |
| Sealing |
| Mounting style |
| Actuator style |
| Flush actuator versions |
| Contact rating |
| Electrical endurance |
| Operating temperature range |
| Dimensions case (LxWxH) |
| Packaging |

| |
|---|
| 1 or 2 |
| Break before Make |
| right angle and vertical right angle |
| Process sealed optional |
| THT, Wire lug, different bushing styles |
| round, rectangular |
| Yes |
| Gold: 20 mA @ 20 Vdc |
| Silver: 1 A @ 125 Vac, 28 Vdc |
| 100,000 ops. |
| -30...+65°C |
| 8.1 x 5.2 x 8.1 mm |
| Bulk |

| |
|--------------------------------|
| up to 4 |
| Break before Make |
| No |
| MPE: splash proof (meets IP65) |
| THT, Panel mount, Wire lug |
| Optional caps for MPA, MPE |
| No |
| 6 A @ 120 Vac, 3 A @ 250 Vac |
| 50,000 ops. |
| -20...+80°C |
| 13 x 8.1...22.5 x 14...17.3 mm |
| 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

NEW



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 | 4 | | tape and reel | 1825006-4 |
| GDS0404 | | 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 |
|--|-----------|----------|---------------|-------------|
| ADF flush actuator | | | | |
| ADF0204 | 2 | THT | tube | 1825002-1 |
| ADF0404 | 4 | | | 1825002-5 |
| ADF0604 | 6 | | | 1825002-9 |
| ADF0804 | 8 | | | 1-1825002-3 |
| ADF1004 | 10 | | | 1-1825002-7 |
| ADF flush actuator with seal tape | | | | |
| 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 |
|----------------------------|------------|--------|----------|---------------|-------------|
| FSM SM/JM | | | | | |
| 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 |
| FSM SM/JM S, Sealed | | | | | |
| 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 |
|--|------------|------------------|----------|---------------|-------------|
| FSMJ Series | | | | | |
| FSM2JH | 1.6 N | 4.3 mm | THT | bulk | 1825910-2 |
| FSM2JAH | 2.6 N | | | | 1825910-3 |
| FSMCD, Square Button | | | | | |
| FSMCD1H | 1.6 N | 7.5mm, □ 2.42mm | THT | bulk | 1825967-1 |
| FSMCD2H | | 7.5mm, □ 2.8mm | | | 1825967-2 |
| FSMRACD, Square Button, Right Angle | | | | | |
| FSMRACD1H | 1.6 N | 6.35mm, □ 2.42mm | THT | bulk | 1825968-1 |
| FSMRACD2H | | 6.35mm, □ 2.8mm | | | 1825968-2 |
| FSMJSM, SMT Mounting | | | | | |
| FSM2JSMLS | 1.0 N | 4.3 mm | SMT | bulk | 1977223-1 |
| FSM2JSMSTR | | | | tape and reel | 1977223-2 |
| FSM2JSMAS | 1.6 N | | | bulk | 1977223-3 |
| FSM2JSMASSTR | | | | tape and reel | 1977223-4 |
| FSM2JSMMAAS | 2.6 N | | | bulk | 1977223-5 |
| FSM2JSMMAASTR | | | | 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 |
| FSM4JSMASSTR | | | | tape and reel | 1-1977223-0 |
| FSM4JSMMAAS | 2.6 N | | | bulk | 1-1977223-1 |
| FSM4JSMMAASTR | | | | tape and reel | 1-1977223-2 |
| FSM6JSMAS | 1.6 N | 7 mm | | bulk | 1-1977223-7 |
| FSM6JSMASSTR | | | | tape and reel | 1-1977223-8 |
| FSM6JSMMAAS | 2.6 N | | | bulk | 1-1977223-9 |
| FSM6JSMMAASTR | | | | tape and reel | 2-1977223-0 |
| FSMJEL, Extended Life, J-Lead | | | | | |
| FSM2JELJ | 1.6 N | 2.5 mm | SMT/J | bulk | 1571625-5 |
| FSM2JELJTR | | | | tape and reel | 1571625-6 |
| FSMJEL, Extended Life, Gull Wing | | | | | |
| FSM2JELG | 1.6 N | 2.5 mm | SMT/G | bulk | 1571626-5 |
| FSM2JELGTR | | | | tape and reel | 1571626-6 |
| FSMJEL, Extended Life, Gull Wing, Ground Terminal | | | | | |
| FSM2JELGE | 1.6 N | 2.5 mm | SMT/G | bulk | 1571636-5 |
| FSM2JELGETR | | | | tape and reel | 1571636-6 |
| FSM1LP, Low Profile | | | | | |
| 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 |
| FSMJJS, Sealed 7.6 mm | | | | | |
| 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 |
| FSMJJS, Sealed 6 mm | | | | | |
| FSM1JS6 | 1.6 N | 4.3 mm | THT | bulk | 1977121-1 |
| FSM2JS6SM | | | SMT | 1977265-1 | |
| FSM2JS6SMTR | | | | tape and reel | 1977265-2 |
| FSMRAJS, Sealed Right Angle | | | | | |
| FSMRAJS1SM | 2.6 N | | SMT | bulk | 1571407-1 |
| FSMRAJS1SMTR | | | | tape and reel | 1571407-2 |
| FSMRAJ, Right Angle | | | | | |
| | | 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 |
|----------------------|-----------|--------|--------------------|---------------|-------------|
| FSM10 | | | | | |
| FSM100 | 1.6 N | 4.3 mm | THT | bulk | 1437565-2 |
| FSM101 | | 7.5 mm | | | |
| FSM102 | | 12 mm | | | 1437565-4 |
| FSM103 | | 7.3 mm | THT, square button | | 1437565-5 |
| FSM104 | | - | THT, right angle | | 1437565-6 |
| FSM10, Sealed | | | | | |
| 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 | |
| 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 |
|--------------------------|------|------------------|------------|-------------|
| ASE | | | | |
| 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 |
| ASE Side Actuator | | | | |
| 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 |
|--------------------------|------|------------------|------------|-------------|
| ASF | | | | |
| 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 |
| ASF Side Actuator | | | | |
| 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 |
|------------------------------|-------------------|----------|---------------|-------------|
| S | | | | |
| S1EGPC04 | 1 Pole, On-Off-On | THT | bulk | 5-1571005-2 |
| S2EGPC04 | 2 Pole, On-Off-On | | | 5-1571005-4 |
| S Right Angle | | | | |
| S1EGRA04 | 1 Pole, On-Off-On | THT | bulk | 5-1571006-2 |
| S2EGRA04 | 2 Pole, On-Off-On | | | 5-1571006-4 |
| SE Sealed | | | | |
| 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 |
| SE Sealed Right Angle | | | | |
| 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 |
|-----------------------------------|------|-------------|-----------|-------------|
| TSS Single | | | | |
| TSS11DGPC04 | SPDT | On-None-On | bulk | 1571982-1 |
| TSS11EGPC04 | | On-Off-On | | 1571982-4 |
| TSS Single, Flush actuator | | | | |
| TSS11DG1PC04 | SPDT | On-None-On | bulk | 1571982-2 |
| TSS11EG1PC04 | | On-Off-On | | 1571982-3 |
| TSS Dual | | | | |
| TSS21KGPC04 | DPST | On-None-Off | bulk | 1571982-5 |
| TSS21NGPC04 | DPDT | On-None-On | | 1571982-7 |
| TSS21PGPC04 | | On-Off-On | | 1571982-9 |
| TSS Dual, Flush actuator | | | | |
| 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 |
|------------------------|------|------------------|------------|-------------|
| MHS | | | | |
| MHS12204 | SPDT | Ag | On-None-On | 1825255-1 |
| MHS122G04 | | Au | | 1825255-2 |
| MHS12304 | | Ag | On-Off-On | 1825255-5 |
| MHS13304 | | SP3T | | On-On-On |
| MHS133G04 | | Au | | 1825255-8 |
| MHS22204 | | DPDT | Ag | On-None-On |
| MHS222G04 | | Au | | 1825289-2 |
| MHS22304 | | | Ag | On-Off-On |
| MHS223G04 | | Au | | 1825289-6 |
| MHS23304 | | DP3T | Ag | On-On-On |
| MHS233G04 | | Au | | 1825289-9 |
| MHS Right Angle | | | | |
| 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 |
|-------------------------|----------------------|------------------|------------|-------------|
| TST | | | | |
| TST11DGPC1D04 | 1 Pole, PCB | Ag | On-None-On | 1825455-1 |
| TST, Right Angle | | | | |
| 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 |
|-----------------------|-------------------|------------------|-------------|-------------|
| TT | | | | |
| 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 |
| TT Right Angle | | | | |
| 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 |
|------------------------------|------------------|------------------|---------------|-------------|
| Gemini A | | | | |
| 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 |
| Gemini A, Right Angle | | | | |
| 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 |
|-------------------------------|-------------|------------------|-----------|-------------|
| Gemini AE | | | | |
| 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 |
| Gemini AE, Right Angle | | | | |
| 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 | | On-On |
| 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 |
|------------------------|----------------|------------------|------------|-------------|
| MTA | | | | |
| 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 |
| MTA Right Angle | | | | |
| MTA8106DVRA04 | SPDT, THT | Ag gold flash | On-None-On | 1571922-4 |
| MTA8106EVRA04 | | | On-Off-On | 1571922-8 |
| MTE (Sealed) | | | | |
| MTE306D04 | 3PDT, wire lug | Ag gold flash | On-None-On | 1-1571924-6 |
| MTE306E04 | | | | On-Off-On |
| 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 | | | 7-6437630-2 |
| 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 |
|-------------------------|-----------|------------------|-------------------------|-------------|
| TPA | | | | |
| TPA11CGPC004 | SPST, THT | Au | Rnd. no bushing | 1825096-1 |
| TPA11FGPC004 | SPDT, THT | | | 1825096-7 |
| TPA, Right Angle | | | | |
| TPA11CGRA004 | SPST, THT | Au | Rnd. no bushing | 1825096-4 |
| TPA11FGRA004 | SPDT, THT | | | 1-1825096-0 |
| TPB | | | | |
| TPB11CGPC004 | SPST, THT | Au | Rnd. 0.188", unthreaded | 1825097-1 |
| TPB11FGPC004 | SPDT, THT | | | 1825097-9 |
| TPB21MGPC004 | DPST, THT | | | 1-1825097-7 |
| TPB, Right Angle | | | | |
| 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 |
|---------------------------|------|----------|-------------------|-------------|
| MPA | | | | |
| 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 |
| MPE (Splash proof) | | | | |
| 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 |
| MPG | | | | |
| 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 |
|--|---------------------|--------------|-------------------------|-------------|
| PRA Series, 13.0x19.2mm panel cutout, 10A single pole | | | | |
| 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 |
| PRA Series, 13.0x19.2mm panel cutout, 6A double pole | | | | |
| 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 | | | | 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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Catalogue No. 1308111, Issued 03-2008

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- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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