



# 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 | 2, 4, 6, 8, 10      |
| Mounting style               | THT, SMT            |
| Tape seal                    | Yes                 |
| Contact rating               | 25 mA @ 24 Vdc      |
| Electrical endurance         | 1000 ops.           |
| Operating temperature range  | -30...+85°C         |
| Dimensions (WxH)             | 6.2 x 2.7 mm        |
| Packaging                    | Tube, Tape and Reel |

|                              |                     |
|------------------------------|---------------------|
| Standard number of positions | 2, 4, 6, 8, 10      |
| Mounting style               | THT, SMT            |
| Tape seal                    | Yes                 |
| Contact rating               | 25 mA @ 24 Vdc      |
| Electrical endurance         | 1000 ops.           |
| Operating temperature range  | -30...+85°C         |
| Dimensions (WxH)             | 9.6 x 8.7 mm        |
| Packaging                    | Tube, Tape and Reel |

|                              |                     |
|------------------------------|---------------------|
| Standard number of positions | 2, 4, 6, 8, 10      |
| Mounting style               | THT, SMT            |
| Tape seal                    | Yes                 |
| Contact rating               | 25 mA @ 24 Vdc      |
| Electrical endurance         | 1000 ops.           |
| Operating temperature range  | -30...+85°C         |
| Dimensions (WxH)             | 9.6 x 6.9 mm        |
| Packaging                    | Tube, Tape and Reel |

|                              |                     |
|------------------------------|---------------------|
| Standard number of positions | 2, 4, 6, 8, 10      |
| Mounting style               | THT, SMT            |
| Tape seal                    | Yes                 |
| Contact rating               | 25 mA @ 24 Vdc      |
| Electrical endurance         | 1000 ops.           |
| Operating temperature range  | -30...+85°C         |
| Dimensions (WxH)             | 9.6 x 6.9 mm        |
| Packaging                    | 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 | 2, 4, 6, 8, 10 |
| Mounting style               | SMT            |
| Tape seal                    | Yes            |
| Contact rating               | 25 mA @ 24 Vdc |
| Electrical endurance         | 1000 ops.      |
| Operating temperature range  | -30...+85°C    |
| Dimensions (WxH)             | 6.2 x 3.2 mm   |
| Packaging                    | Tape and Reel  |

|                              |                |
|------------------------------|----------------|
| Standard number of positions | 2, 4, 6, 8, 10 |
| Mounting style               | SMT            |
| Tape seal                    | Yes            |
| Contact rating               | 25 mA @ 24 Vdc |
| Electrical endurance         | 1000 ops.      |
| Operating temperature range  | -30...+85°C    |
| Dimensions (WxH)             | 6.2 x 3.2 mm   |
| Packaging                    | Tape and Reel  |

|                              |                     |
|------------------------------|---------------------|
| Standard number of positions | 2, 4, 6, 8, 10      |
| Mounting style               | SMT                 |
| Tape seal                    | Yes                 |
| Contact rating               | 25 mA @ 24 Vdc      |
| Electrical endurance         | 1000 ops.           |
| Operating temperature range  | -30...+85°C         |
| Dimensions (WxH)             | 4.5 x 1.45 mm       |
| Packaging                    | 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



### ADF Series

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



### ADP Series

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



#### 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            |

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

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

### STV, STR Series

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



### DIP Series

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



#### 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           |

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

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

## 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



#### 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 . 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   |

### 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      |

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



#### 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                   |

|                                  |
|----------------------------------|
| 2, 4, 6                          |
| 2, 3 (available in 4 pole only)  |
| Make before Break                |
| Yes                              |
| SMT, THT                         |
| ASF: Flush top actuator          |
| ASE: Extended top or side        |
| ASFO: Flush top or side          |
| ASF: Yes, ASE: No                |
| ASF: Yes, ASE: No                |
| Gold: 20 mA @ 20 Vdc             |
| Silver: 300 mA @ 115 Vac, 28 Vdc |
| 10,000 ops.                      |
| -40...+80°C                      |
| refer to catalogue               |
| Tube                             |

### S, SE Series

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



|                                |
|--------------------------------|
| 1 or 2                         |
| 1,2                            |
| Break before Make              |
| Yes                            |
| SMT, THT                       |
| SE: Actuator with boot sealing |
| No                             |
| No                             |
| 20 mA @ 20 Vdc                 |
| 10,000 ops.                    |
| -20...+80°C                    |
| 9.5 x 5 x 8.0 mm               |
| Tray, Tape and Reel            |

### STS, SDS Series

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



|                    |
|--------------------|
| 1 or 2             |
| up to 6            |
| Make before Break  |
| Yes                |
| THT                |
| SDS: on request    |
| No                 |
| No                 |
| 300 mA @ 125 Vac   |
| 10,000 ops.        |
| -15...+60°C        |
| refer to catalogue |
| Bulk               |

### TSS Series

- Single or dual actuator



#### 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 4            |
| 1 or 2             |
| Break before Make  |
| Yes                |
| THT                |
| Standard           |
| Yes                |
| No                 |
| 20 mA @ 20 Vdc     |
| 80,000 ops.        |
| -20...+80°C        |
| refer to catalogue |
| Bulk               |

### MSS, MSSA Series

- Instrumentation grade



|                                |
|--------------------------------|
| up to 6                        |
| up to 4                        |
| Make before Break              |
| Yes                            |
| THT                            |
| Standard / MSSA: Position snap |
| No                             |
| No                             |
| Gold: 20 mA @ 20 Vdc           |
| Silver: 300 mA @ 125 Vac       |
| 15,000 ops.                    |
| -20...+85°C                    |
| refer to catalogue             |
| Tray                           |

### MSSA-01/04 Series

- Instrumentation grade
- Top and side actuator



|                                |
|--------------------------------|
| up to 2                        |
| 2                              |
| Break before Make              |
| Yes                            |
| THT                            |
| Standard                       |
| Yes                            |
| No                             |
| Gold: 20 mA @ 20 Vdc           |
| Silver: 3A@115Vac, 1.5A@230Vac |
| 30,000 ops.                    |
| -20...+85°C                    |
| MSSA1: 11.9 x 6.4 x 8 mm       |
| MSSA2: 11.9 x 11.4 x 8 mm      |
| 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<br>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<br>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,<br>150 mA @ 12 Vdc<br>SLA: 500 mA @ 125 Vac |
| Electrical endurance        | 10,000 ops.                                                           |
| Operating temperature range | SLS/SL: -10...+60°C,<br>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              |
| 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;<br>Various bushings versions |
| Various lengths,<br>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,<br>Wire wrap, Support brackets;<br>Various bushings versions |
| different lengths, round, flat,<br>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,<br>Wire wrap, Support brackets |
| different lengths, round, flat;<br>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,<br>splash proof bat actuator,<br>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



#### 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                                    |

### MP Series

- Caps in different colours



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



#### Power Rocker Switch

|                             |                                                               |
|-----------------------------|---------------------------------------------------------------|
| Number of poles             | 1 or 2                                                        |
| Sealing                     | Dust resistant, optional waterproof cover                     |
| Type of terminals           | Solder lug or Quick connect                                   |
| Illumination versions       | single pole versions only                                     |
| Contact rating              | 1 pole version: 10A @ 250 Vac<br>2 pole version: 6A @ 250 Vac |
| Electrical endurance        | ≥ 6,000 ops.                                                  |
| Operating temperature range | -20...+85°C                                                   |
| Approvals                   | 1 pole vers.: cUL (VDE, ENEC)<br>2 pole vers.: cUL            |
| Packaging                   | Tray                                                          |

### PRC Series

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



|                             |                                  |
|-----------------------------|----------------------------------|
| Number of poles             | 1 or 2                           |
| Sealing                     | IP 66 waterproof                 |
| Type of terminals           | Solder lug, Quick connect, Screw |
| Illumination versions       | No                               |
| Contact rating              | 10A @ 250 Vac                    |
| Electrical endurance        | ≥ 6,000 ops.                     |
| Operating temperature range | -20...+85°C                      |
| Approvals                   | UL                               |
| Packaging                   | Tray                             |

### PRE Series

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



|                             |                             |
|-----------------------------|-----------------------------|
| Number of poles             | 2                           |
| Sealing                     | Dust resistant              |
| Type of terminals           | Solder lug or Quick connect |
| Illumination versions       | Yes                         |
| Contact rating              | 6 A @ 250 Vac               |
| Electrical endurance        | ≥ 10,000 ops.               |
| Operating temperature range | -20...+85°C                 |
| Approvals                   | UL, VDE, ENEC               |
| Packaging                   | Tray                        |

### PRF Series

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



#### Power Rocker Switch

|                             |                             |
|-----------------------------|-----------------------------|
| Number of poles             | 2                           |
| Sealing                     | Dust resistant              |
| Type of terminals           | Solder lug or Quick connect |
| Illumination versions       | Yes                         |
| Contact rating              | 10 A @ 250 Vac              |
| Electrical endurance        | ≥ 10,000 ops.               |
| Operating temperature range | -20...+85°C                 |
| Approvals                   | UL, VDE, ENEC               |
| Packaging                   | Tray                        |

### PRG Series

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



|                             |                             |
|-----------------------------|-----------------------------|
| Number of poles             | 1                           |
| Sealing                     | Dust resistant              |
| Type of terminals           | Solder lug or Quick connect |
| Illumination versions       | Yes                         |
| Contact rating              | 10 A @ 250 Vac              |
| Electrical endurance        | ≥ 6,000 ops.                |
| Operating temperature range | -20...+85°C                 |
| Approvals                   | UL, VDE, ENEC               |
| Packaging                   | 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  | 6         |          | tape and reel | 1825006-8   |
| GDS0604     |           | THT      | tube          | 1825006-9   |
| GDS06S04    |           | SMT      |               | 1-1825006-1 |
| GDS06STR04  | 8         |          | tape and reel | 1-1825006-2 |
| GDS0804     |           | THT      | tube          | 1-1825006-3 |
| GDS08S04    |           | SMT      |               | 1-1825006-5 |
| GDS08STR04  | 10        |          | tape and reel | 1-1825006-6 |
| GDS1004     |           | 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         |          |           | 1825057-5   |
| ADE0804     | 8         | SMT      |           | 1825057-7   |
| ADE08S04    |           |          |           | 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 |
|---------------------|------------|--------|----------|---------------|-------------|
| FSM SM/JM           |            |        |          |               |             |
| FSM2L               | 1.3 N      | 5 mm   | THT      | bulk          | 1825965-1   |
| FSM1L               |            | 4.3 mm |          |               | 1825966-1   |
| FSM1SM              | 1.8 N      | 4.3 mm | SMT      | tape and reel | 1437566-3   |
| FSM1SMTR            |            |        |          |               | 1437566-4   |
| FSM1JMTR            |            |        | SMT/J    |               | 147873-2    |
| FSM2JMTR            |            |        |          |               | 147873-1    |
| FSM SM/JM S, Sealed |            |        |          |               |             |
| FSM2S               | 1.3 N      | 5 mm   | THT      | bulk          | 1571297-1   |
| FSM2SSMTR           |            | 4.3 mm | SMT      | tape and reel | 1571298-2   |
| FSM1SJMTR           |            |        | SMT/J    |               | 1571299-2   |
| FSM2SJMTR           |            | 5 mm   |          |               |             |

### 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      |        | SMT      |               | 1571528-2   |
| FSMSMLPTR   | 1.6 N      |        |          |               | 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 |
| FSM4JSMXSTR                                              |            |                  |          | 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   |
| FSM2JJS                                                  |            | 4.3 mm           | THT      | bulk          | 1571295-1   |
| FSM2JSSM                                                 |            |                  | SMT      |               | 1571294-1   |
| FSM2JSSMTR                                               |            |                  |          | tape and reel | 1571294-2   |
| FSM4JJS                                                  |            | 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 |
|-------------------|------|------------------|------------|-------------|
| ASE               |      |                  |            |             |
| ASE2204           | DPDT | Ag               | THT        | 1825010-1   |
| ASE22G04          |      | Au               |            | 1825010-2   |
| ASE22GL04         |      |                  | SMT/L      | 1825010-5   |
| ASE22GS04         |      |                  | SMT/rev. L | 1825010-7   |
| ASE22L04          | 4PDT | Ag               | SMT/L      | 1825010-6   |
| ASE22S04          |      |                  | SMT/rev. L | 1825010-8   |
| ASE4204           |      |                  | THT        | 1-1825010-3 |
| ASE42G04          |      | Au               |            | 1-1825010-4 |
| ASE42GL04         | 6PDT |                  | SMT/L      | 1-1825010-7 |
| ASE42L04          |      | Ag               |            | 1-1825010-8 |
| ASE42S04          |      |                  | SMT/rev. L | 2-1825010-0 |
| ASE6204           |      |                  | THT        | 3-1825010-7 |
| ASE62G04          | 6PDT | 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         |      |                  | SMT/L      | 1-1825010-0 |
| ASE22RS04         | 4PDT | Ag               | SMT/rev. L | 1-1825010-2 |
| ASE42R04          |      |                  | THT        | 1-1825010-5 |
| ASE42RG04         |      | Au               |            | 1-1825010-6 |
| ASE42RGL04        |      |                  | SMT/L      | 2-1825010-1 |
| ASE42RL04         | 4P3T | Ag               |            | 2-1825010-2 |
| ASE42RS04         |      |                  | SMT/rev. L | 2-1825010-4 |
| ASE43R04          |      |                  | 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          | 4PDT | Ag               | SMT/L      | 1825011-7   |
| ASF22S04          |      |                  | SMT/rev. L | 1-1825011-1 |
| ASF4204           |      |                  | THT        | 2-1825011-1 |
| ASF42G04          |      | Au               |            | 2-1825011-2 |
| ASF42GL04         | 6PDT |                  | SMT/L      | 2-1825011-5 |
| ASF42L04          |      | Ag               |            | 2-1825011-7 |
| ASF42S04          |      |                  | SMT/rev. L | 3-1825011-1 |
| ASF6204           |      |                  | THT        | 6-1825011-1 |
| ASF62G04          | 6PDT | 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         | 4PDT | Ag               |            | 1-1825011-9 |
| ASF42R04          |      |                  | THT        | 2-1825011-3 |
| ASF42RG04         |      | Au               |            | 2-1825011-4 |
| ASF42RGL04        |      |                  | SMT/L      | 3-1825011-3 |
| ASF42RL04         | 6PDT | Ag               |            | 3-1825011-5 |
| ASF42STR04        |      |                  | SMT/rev. L | 3-1825011-2 |
| ASF62R04          |      |                  | THT        | 6-1825011-3 |
| ASF62RG04         |      | Au               |            | 6-1825011-4 |
| ASF62RGL04        | 6PDT |                  | 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   |
| SE1GSMTTR04           | 1 Pole, On-Off    | SMT      | tape and reel | 5-1571004-4 |
| SE1EGSMTTR04          | 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               |             | 1825258-1   |
| MSS1200RG04 |      | Au               | right angle | 1825258-2   |
| MSS130004   | SP3T | Ag               | vertical    | 1825259-1   |
| MSS1300G04  |      | Au               |             | 1825259-2   |
| MSS1300R04  |      | Ag               |             | 1825260-1   |
| MSS1300RG04 |      | Au               | right angle | 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               |             | 1825268-1   |
| MSS4300RG04 |      | Au               | right angle | 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               |      | Ag               | On-None-On | 1825289-1   |
| MHS222G04              |      | Au               |            | 1825289-2   |
| MHS22304               |      | Ag               | On-Off-On  | 1825289-5   |
| MHS223G04              |      | Au               |            | 1825289-6   |
| MHS23304               |      | Ag               | 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  |      |          |             | 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 |
|----------------|-------------------|------------------|-------------|-------------|
| 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 |
|-------------------------------|-------------|------------------|-----------|-------------|
| <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                |             |                  | On-On     | 1825143-9   |
| AE203SD1AV2B04                | 2 Pole, PCB |                  | 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  | 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 |                  |               | 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",<br>unthreaded | 1825097-1   |
| TPB11FGPC004     | SPDT, THT |                  |                            | 1825097-9   |
| TPB21MGPC004     | DPST, THT |                  |                            | 1-1825097-7 |
| TPB, Right Angle |           |                  |                            |             |
| TPB11CGRA004     | SPST, THT | Au               | Rnd. 0.188",<br>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               |             |
| 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 |
| MP16DTCSMD  |                |           | 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                                             |                     |              |                         | 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 |
|------------------|-----------------------|--------------|-------------------------|-------------|
| PRED1-07F-BB000  | On-Off, opaque        | black        | not applicable          | 1634200-1   |
| PRED1-07F-BB0BW  |                       |              | 0 - , white printing    | 1634200-2   |
| PRED1-07F-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        | not applicable         | 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      | black        | not applicable       | 1634202-4   |
| PRGSA1-16F-BB0BW |                     |              | 0 - , white printing | 1634202-3   |
| PRGSA1-16F-BB0AW |                     |              | • , white printing   | 1634202-2   |
| PRGSA1-16F-BB000 |                     |              | not applicable       | 1634202-1   |

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