

# ALCOSWITCH

## DIP Switch

### EDS, EDSP Series

TE Connectivity's (TE) ALCOSWITCH DIP switch EDS and EDSP series are designed for space-saving and streamlined manufacturing with full surface mount products. The EDS and EDSP series are available in standard raised actuators and recessed actuators, both flush and extended versions. The end-stackable design saves space on the PCB and allows for large position counts without sacrificing centerline spacing. Parts are available in both tube and tape & reel packaging, and are available with a top tape seal.



## Applications

- Industrial and Automated Control Boards
- Fire and Security Systems
- Thermostats
- Elevator/Escalator
- Telecommunication Devices

## Electrical

- Current/Voltage rating: 25 mA @ 24 VDC
- Contact resistance: 100 M $\Omega$  max
- Dielectric strength: 500 VAC for 1 minute

## Mechanical

- Actuator force: 1,000 gf max
- Actuator travel: 1 mm
- Life cycles: 2,000 cycles
- Operating temperature: -20° C to +85° C
- Storage temperature: -40° C to +85° C

## Materials

- Base/Cover: High temperature Nylon (UL94-VO)
- Contact: Cu alloy, Au over nickel plated
- Terminal: Brass, Au plated
- Actuator: LCP (UL94 V-O)

## Benefits

- End stackable feature allows for PCB space saving and maintaining a consistent centerline.
- Raised or recessed actuators for design flexibility
- Piano-style actuators for edge of PCB mounting of switch
- Surface Mounted (Gull-wing and J-Lead) options available
- Configurable contact for Push Up or Push Down ON position
- Gold contact plating for high reliability and corrosion resistance
- Tape and reel packaging with top tape seal available for quick pick-and-place assembly

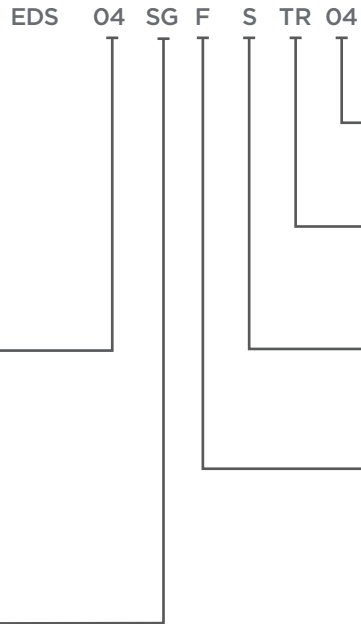
Product Key

Position Count

|    |             |
|----|-------------|
| 01 | 1 Position  |
| 02 | 2 Position  |
| 03 | 3 Position  |
| 04 | 4 Position  |
| 05 | 5 Position  |
| 06 | 6 Position  |
| 07 | 7 Position  |
| 08 | 8 Position  |
| 09 | 9 Position  |
| 10 | 10 Position |
| 12 | 12 Position |

Mounting Style

|    |                         |
|----|-------------------------|
| SG | SMT Gull Wing Terminals |
| SN | SMT J Lead Terminals    |



Environmental Compliance

|     |                    |
|-----|--------------------|
| 04Q | RoHS, Halogen Free |
|-----|--------------------|

Packaging

|    |             |
|----|-------------|
| TU | Tube        |
| TR | Tape & Reel |

Tape Seal

|   |               |
|---|---------------|
| N | No Tape Seal  |
| S | Top Tape Seal |

Actuator

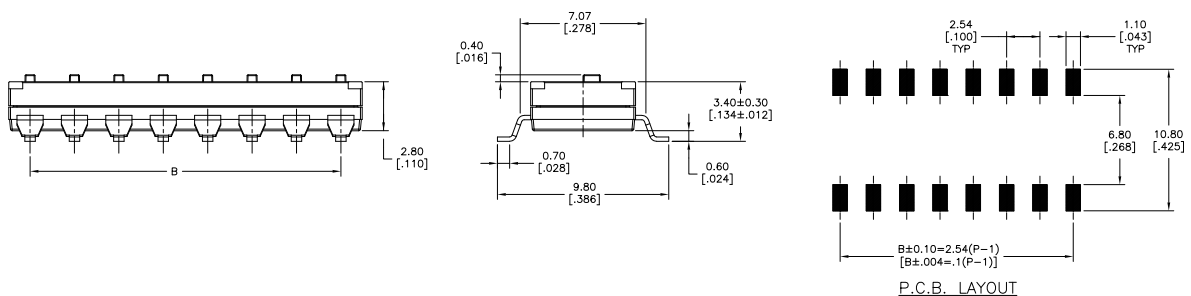
|   |                   |
|---|-------------------|
| N | Raised Actuator   |
| R | Recessed Actuator |

Product Selection Information

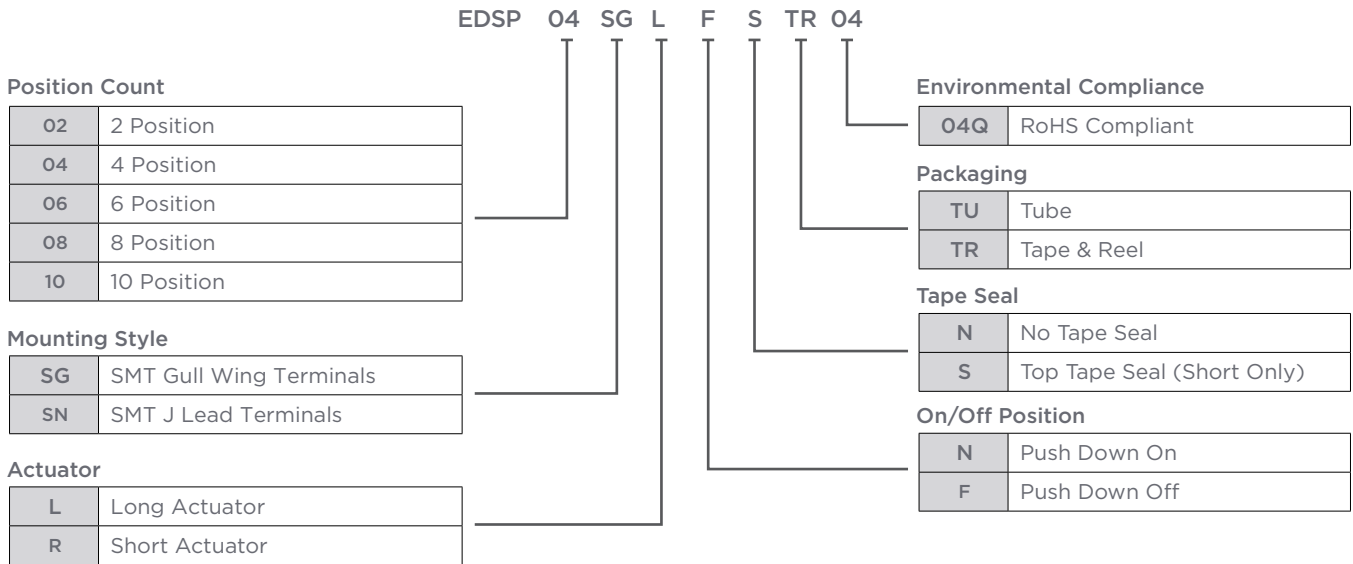
| Part Number                 | Description    | Position | Mounting Style | Actuator Type | Sealing       | Packaging   |
|-----------------------------|----------------|----------|----------------|---------------|---------------|-------------|
| <a href="#">2-2319847-2</a> | EDS01SGNNTR04Q | 1        | SMT Gull Wing  | Raised        | No Tape Seal  | Tape & Reel |
| <a href="#">2319847-4</a>   | EDS04SGNNTU04Q | 4        | SMT Gull Wing  | Raised        | No Tape Seal  | Tube        |
| <a href="#">2-2319847-8</a> | EDS07SGNNTR04Q | 7        | SMT Gull Wing  | Raised        | No Tape Seal  | Tape & Reel |
| <a href="#">2319847-8</a>   | EDS08SGNNTU04Q | 8        | SMT Gull Wing  | Raised        | No Tape Seal  | Tube        |
| <a href="#">3-2319847-1</a> | EDS10SGNNTR04Q | 10       | SMT Gull Wing  | Raised        | No Tape Seal  | Tape & Reel |
| <a href="#">2319848-2</a>   | EDS02SGRNTU04Q | 2        | SMT Gull Wing  | Recessed      | No Tape Seal  | Tube        |
| <a href="#">4-2319848-5</a> | EDS03SGRNTR04Q | 3        | SMT Gull Wing  | Recessed      | No Tape Seal  | Tape & Reel |
| <a href="#">6-2319848-8</a> | EDS05SGRSTR04Q | 5        | SMT Gull Wing  | Recessed      | Top Tape Seal | Tape & Reel |
| <a href="#">2-2319848-7</a> | EDS06SGRSTU04Q | 6        | SMT Gull Wing  | Recessed      | Top Tape Seal | Tube        |
| <a href="#">8-2319848-2</a> | EDS09SNRSTR04Q | 9        | SMT J Lead     | Recessed      | Top Tape Seal | Tape & Reel |
| <a href="#">5-2319848-3</a> | EDS12SGRNTR04Q | 12       | SMT Gull Wing  | Recessed      | No Tape Seal  | Tape & Reel |

Dimensions

Part Number 2319847



Product Key

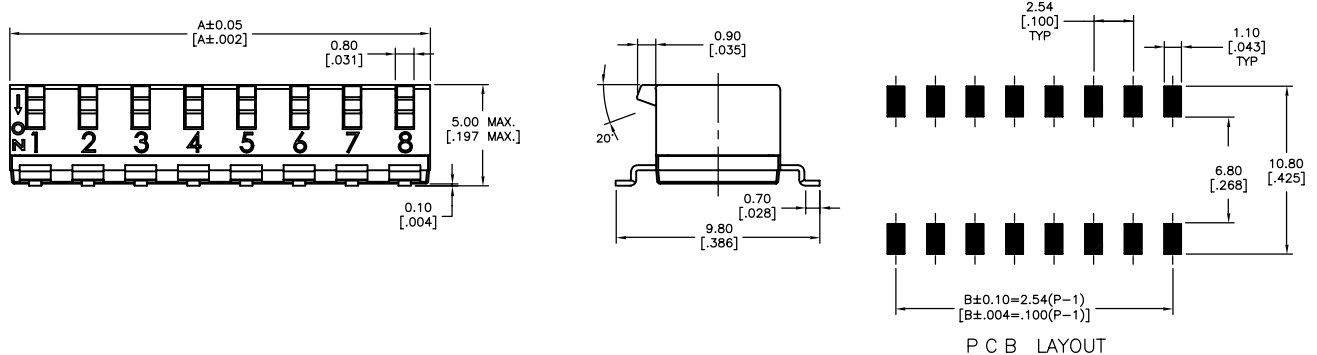


Product Selection Information

| Part Number                 | Description     | Position | Actuator Type | ON/OFF Position | Sealing       | Packaging   |
|-----------------------------|-----------------|----------|---------------|-----------------|---------------|-------------|
| <a href="#">2319764-1</a>   | EDSP02SGLNNTU04 | 2        | Long          | Push Down ON    | No Tape Seal  | Tube        |
| <a href="#">2319764-2</a>   | EDSP04SGLNNTU04 | 4        | Long          | Push Down ON    | No Tape Seal  | Tube        |
| <a href="#">2319764-3</a>   | EDSP06SGLNNTU04 | 6        | Long          | Push Down ON    | No Tape Seal  | Tube        |
| <a href="#">2319764-4</a>   | EDSP08SGLNNTU04 | 8        | Long          | Push Down ON    | No Tape Seal  | Tube        |
| <a href="#">2319764-5</a>   | EDSP10SGLNNTU04 | 10       | Long          | Push Down ON    | No Tape Seal  | Tube        |
| <a href="#">5-2319764-6</a> | EDSP02SGRFSTR04 | 2        | Short         | Push Down OFF   | Top Tape Seal | Tape & Reel |
| <a href="#">5-2319764-7</a> | EDSP04SGRFSTR04 | 4        | Short         | Push Down OFF   | Top Tape Seal | Tape & Reel |
| <a href="#">5-2319764-8</a> | EDSP06SGRFSTR04 | 6        | Short         | Push Down OFF   | Top Tape Seal | Tape & Reel |
| <a href="#">5-2319764-9</a> | EDSP08SGRFSTR04 | 8        | Short         | Push Down OFF   | Top Tape Seal | Tape & Reel |
| <a href="#">6-2319764-0</a> | EDSP10SGRFSTR04 | 10       | Short         | Push Down OFF   | Top Tape Seal | Tape & Reel |

Dimensions

Part Number 2319764



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USA: +1 (800) 522-6752  
 Canada: +1 (905) 475-6222  
 Mexico: +52 (0) 55-1106-0800  
 Latin/S. America: +54 (0) 11-4733-2200  
 Germany: +49 (0) 6251-133-1999  
 UK: +44 (0) 800-267666  
 France: +33 (0) 1-3420-8686  
 The Netherlands: +31 (0) 73-6246-999  
 China: +86 (0) 400-820-6015



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#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.