

# ALCOSWITCH NEXT GENERATION DIP SWITCH

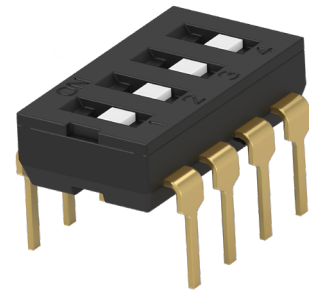
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## ADE & ADF SERIES

### INTRODUCTION

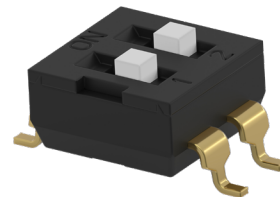
TE Connectivity's (TE) ALCOSWITCH Next Gen. DIP switch ADE (Extended actuator) and ADF (Flush type actuator) series are designed for space-saving and streamlined manufacturing with high contact pressure allowing for aqueous cleaning with virtually no need for tape sealing.

The ALCOSWITCH ADE and ADF series are available in through-hole and surface-mount options. The styles of actuators are based on respective series: ADE with extended actuators, ADF with flush actuators. ADE/ ADF are available in both tube and tape/reel packaging options.



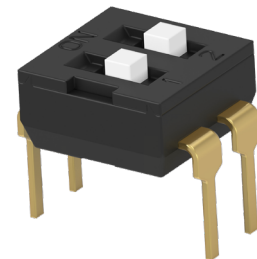
### BENEFITS

- Raised (extended) or recessed (flush) for design flexibility.
- Through-hole & surface mounted.
- Extremely high contact pressure system allows aqueous or solvent cleaning with virtually no need for tape sealing.
- Gold contact plating for high reliability and corrosion resistance.
- Tape and reel packaging available for quick pick-and-place assembly.



### APPLICATIONS

- Industrial and automated control boards
- Fire and security systems
- Thermostats
- Elevator/Escalator
- Telecommunication devices



### KEY FEATURES

- Better space management because of low profile design, 30% smaller in size compared to conventional dip switches available in market.
- Sliding type contact supports better performance and higher reliability when compared to conventional seesaw type contact.

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## ELECTRICAL CHARACTERISTICS

|                       |                                          |
|-----------------------|------------------------------------------|
| Rating:               |                                          |
| Switching             | 25mA, 24VDC                              |
| Non-switching         | 1A, 5VDC                                 |
| Contact resistance:   |                                          |
| Initial               | 50mΩ                                     |
| After life test       | 100mΩ Max                                |
| Insulation resistance | 100MΩ / 500VDC                           |
| Withstand voltage     | 500 VAC for 1 minute                     |
| Life                  | Min 1,000 Cycles / 25mA,24VDC            |
| Switching cycles      | 20 cycles within 1 minute @100mA current |

## MECHANICAL CHARACTERISTICS

|                       |                  |
|-----------------------|------------------|
| Operating force       | 1Kgf max         |
| Stroke                | 0.9mm            |
| Life cycles           | Min 1,000 Cycles |
| Operating temperature | -40°C to +85°C   |
| Storage temperature   | -40°C to +85°C   |

## MATERIALS

|          |                                       |
|----------|---------------------------------------|
| Cover    | PA9T (UL94V-O)                        |
| Contact  | BeCu, Au flash over nickel            |
| Terminal | Phosphor bronze, Au flash over nickel |
| Actuator | PA46 (UL94V-O)                        |
| T/Case   | PA9T (UL94V-O)                        |

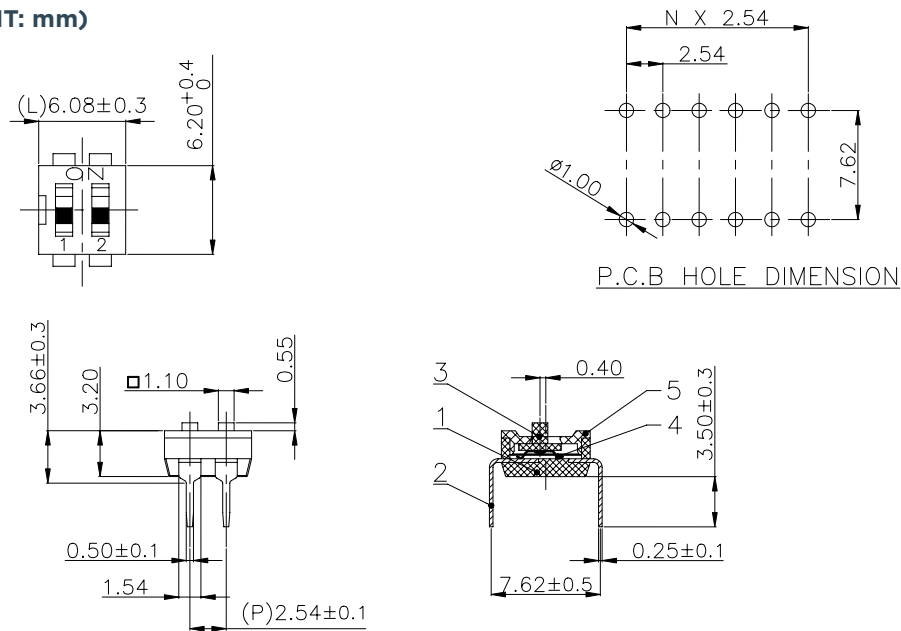
## SOLDERING INFORMATION

1. Reflow soldering: 260°C, 10 sec max (Peak temperature)
2. Manual soldering: 30W iron, 320±5°C, 3 sec max
3. Keep in "OFF" position during soldering

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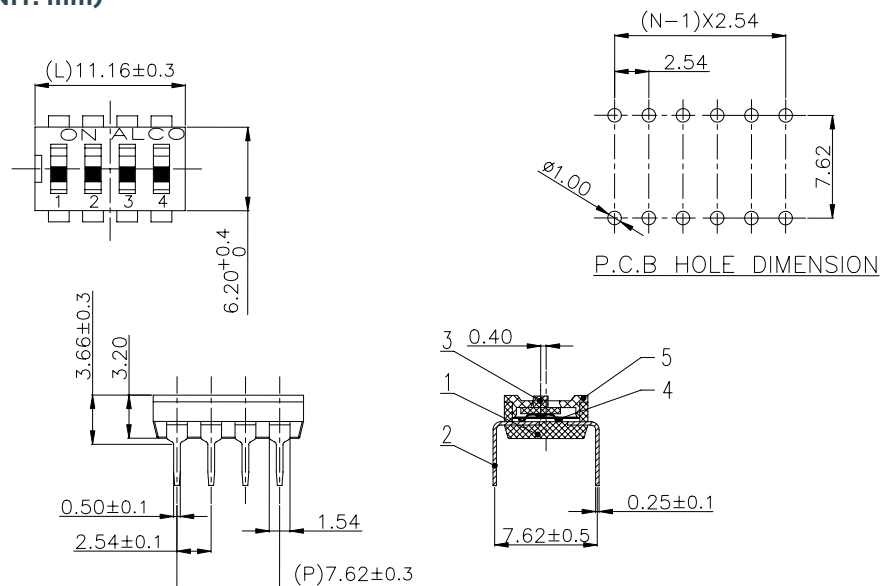
ADE & ADF SERIES

## ADE DIMENSION (UNIT: mm)



| TE Part Number | Poles | Dimension "L" (mm) | Dimension "P" (mm) |
|----------------|-------|--------------------|--------------------|
| 2454982-1      | 2     | 6.08               | 2.54               |
| 2454982-2      | 3     | 8.62               | 5.08               |
| 2454982-3      | 4     | 11.16              | 7.62               |
| 2454982-4      | 6     | 16.24              | 12.70              |
| 2454982-5      | 10    | 26.40              | 22.86              |
| 2454985-1      | 10    | 26.40              | 22.86              |
| 2454985-2      | 2     | 6.08               | 2.54               |
| 2454985-3      | 2     | 6.08               | 2.54               |

## ADF DIMENSION (UNIT: mm)

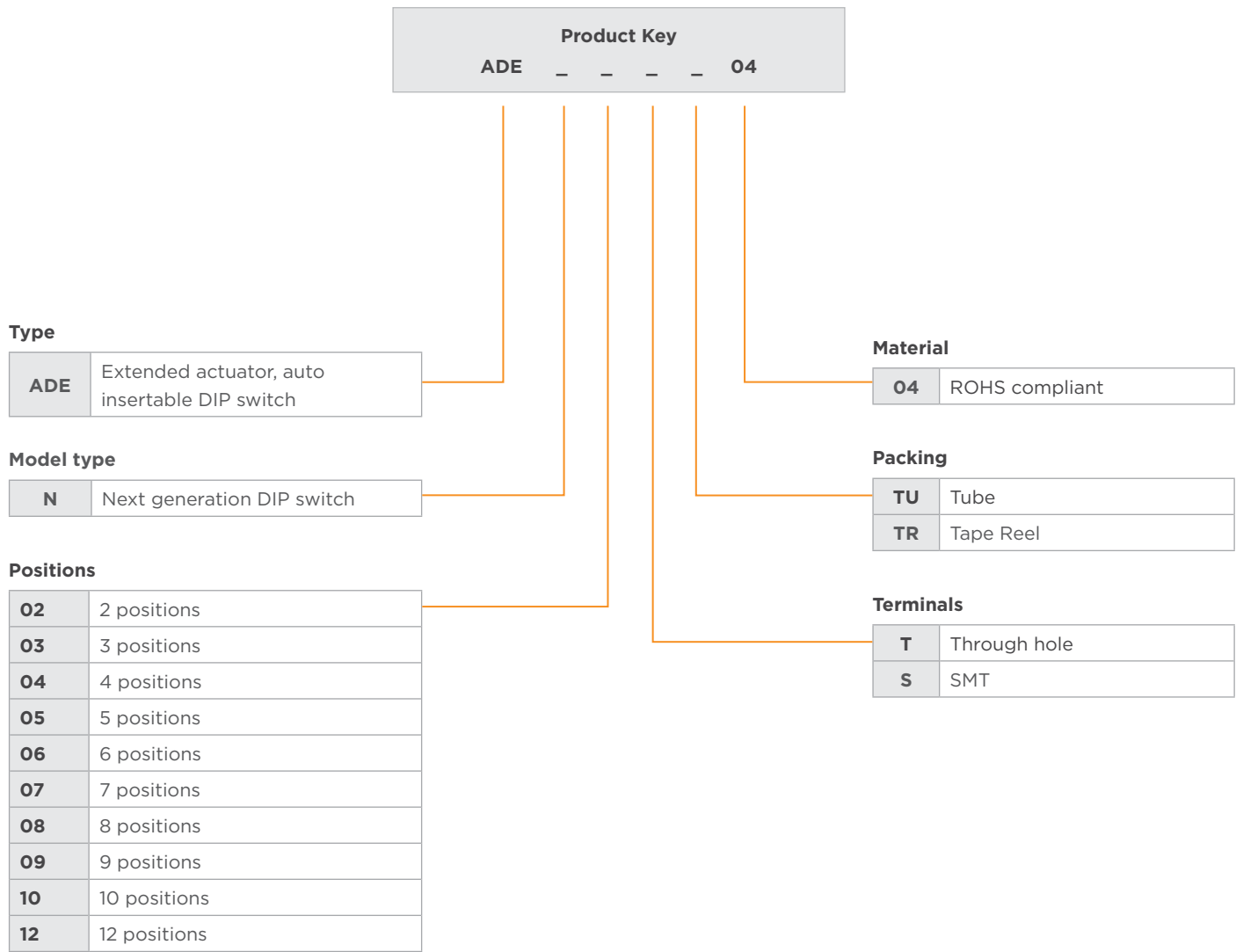


| TE Part Number | Poles | Dimension "L" (mm) | Dimension "P" (mm) |
|----------------|-------|--------------------|--------------------|
| 2461924-1      | 4     | 11.16              | 7.62               |

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ADE & ADF SERIES

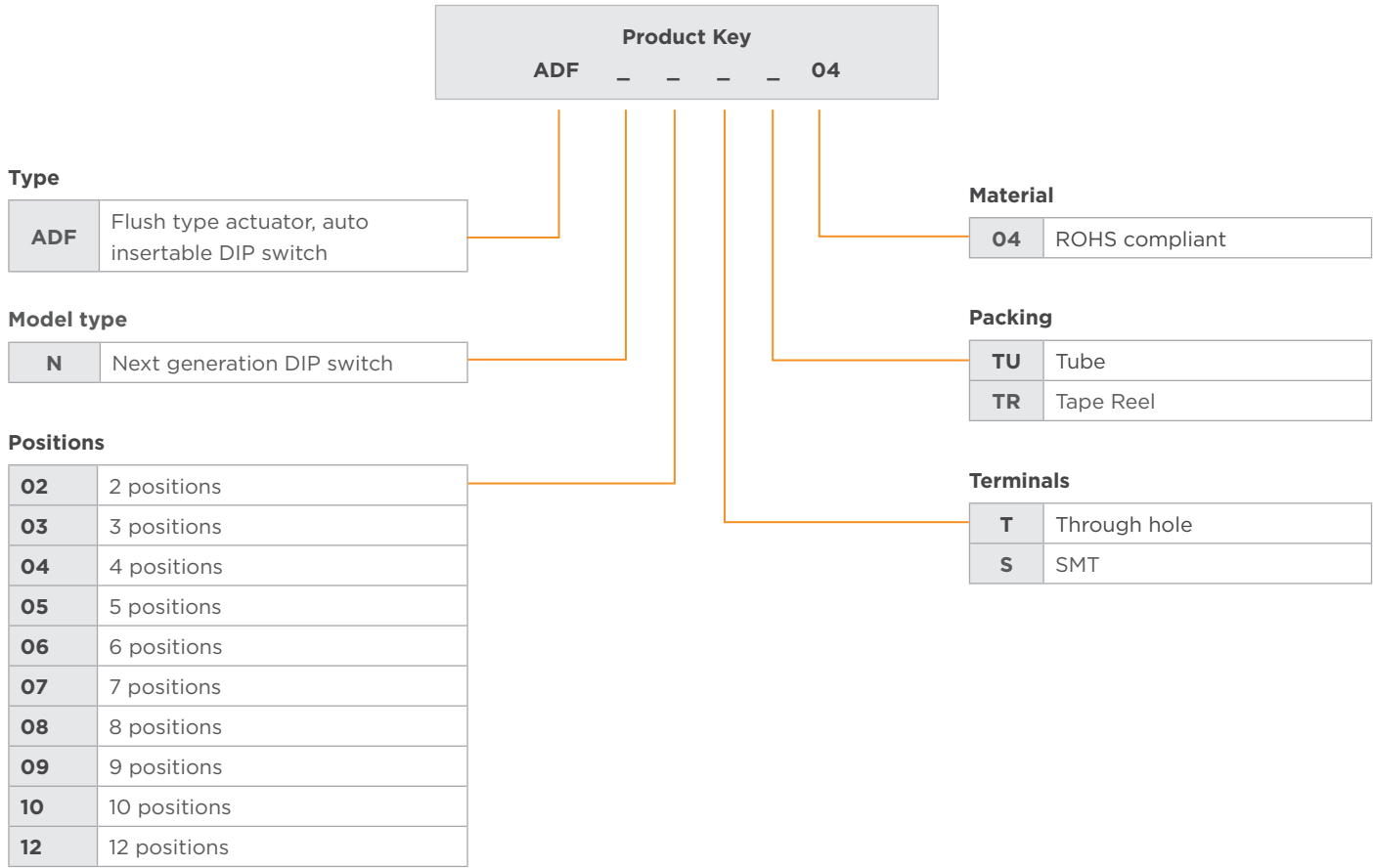
## PRODUCT CODE STRUCTURE



## PRODUCT SELECTION INFORMATION

| TE Part Number | Part Description | Positions | Mounting Style | Actuator Style | Packaging      |
|----------------|------------------|-----------|----------------|----------------|----------------|
| 2454982-1      | ADEN02TTU04      | 2         | Through hole   | Extended       | Tube           |
| 2454982-2      | ADEN03TTU04      | 3         |                |                |                |
| 2454982-3      | ADEN04TTU04      | 4         |                |                |                |
| 2454982-4      | ADEN06TTU04      | 6         |                |                |                |
| 2454982-5      | ADEN10TTU04      | 10        |                |                |                |
| 2454985-1      | ADEN10STU04      | 10        | Surface Mount  |                | TR - Tape/Reel |
| 2454985-2      | ADEN02STU04      | 2         |                |                |                |
| 2454985-3      | ADEN02STR04      | 2         |                |                |                |

PRODUCT CODE STRUCTURE



PRODUCT SELECTION INFORMATION

| TE Part Number | Part Description | Positions | Mounting Style | Actuator Style | Packaging |
|----------------|------------------|-----------|----------------|----------------|-----------|
| 2461924-1      | ADFN04TTU04      | 4         | Through hole   | Flush          | Tube      |

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