

Low-profile SMD DIP switch, 2.54 mm standard pitch



See below:

**Approvals and Compliances**

**Description**

- Low-profile, 2.54 mm SMD DIP switch

**Unique Selling Proposition**

- 2.54 mm standard pitch design
- Low profile
- SMD type terminal
- High number of cycles

**Weblinks**

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [CAD-Drawings](#), [Product News](#), [Detailed request for product](#)

**Technical Data**

**Electrical Data**

|                     |                                                           |
|---------------------|-----------------------------------------------------------|
| Switching Voltage   | 24 VDC (status changed often)<br>50 VDC (status constant) |
| Switching current   | 25 mA (status changed often)<br>100 mA (status constant)  |
| Dielectric Strength | No breakdown at 500 V (50Hz~60Hz, 1min)                   |
| Contact Resistance  | max. 50 mΩ (initial)<br>max. 100 mΩ (after testing)       |

**Mechanical Data**

|                 |                 |
|-----------------|-----------------|
| Actuating Force | ≤ 8 N           |
| Lifetime        | 2000 actuations |

**Climatical Data**

|                       |                |
|-----------------------|----------------|
| Operating Temperature | -40 °C - 85 °C |
| Storage Temperature   | -40 °C - 85 °C |

**Soldering Data**

|                   |        |
|-------------------|--------|
| Soldering Methods | Reflow |
|-------------------|--------|

**Material**

|                 |                          |
|-----------------|--------------------------|
| Terminals       | Gold-Plated Copper Alloy |
| Contact element | Gold-Plated Copper Alloy |
| Housing         | plastic - black          |
| Actuator        | plastic - white          |

**Approvals and Compliances**

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

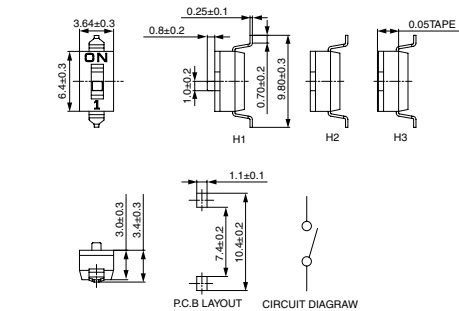
SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

**Compliances**

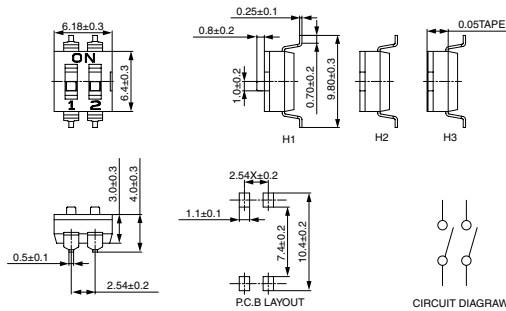
The product complies with following Guide Lines

| Identification                                                                      | Details                    | Initiator   | Description                                                                                                                                                             |
|-------------------------------------------------------------------------------------|----------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <a href="#">RoHS</a>       | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863                                                                                                                      |
|  | <a href="#">China RoHS</a> | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.                                                    |
|  | <a href="#">REACH</a>      | SCHURTER AG | On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force. |

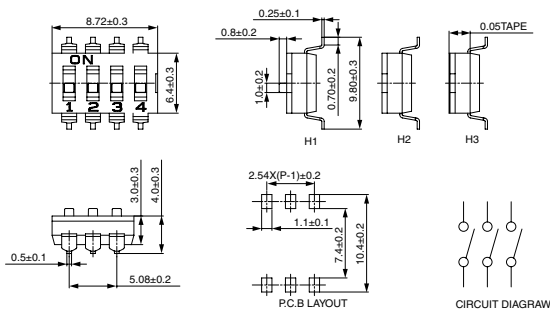
Dimension [mm]  
DMSD 01



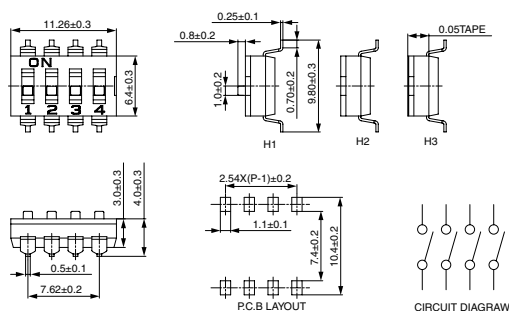
DMSD 02



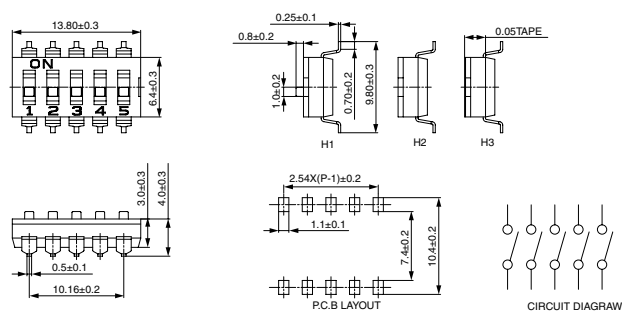
DMSD 03



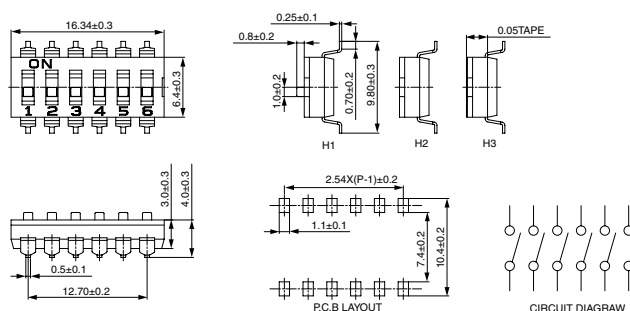
**DMSD 04**



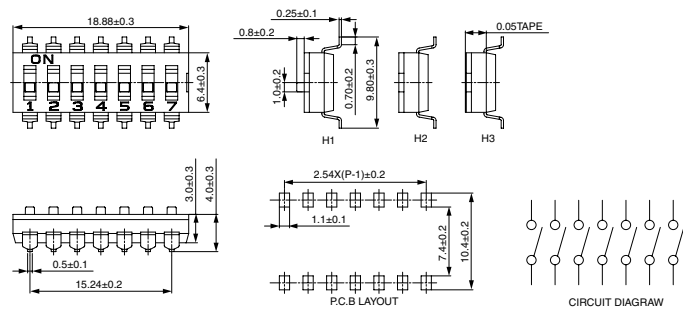
**DMSD 05**



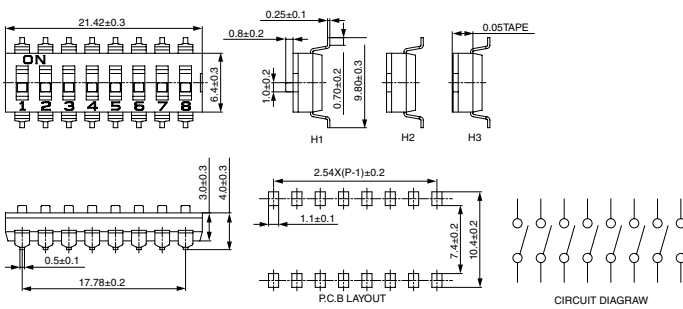
**DMSD 06**



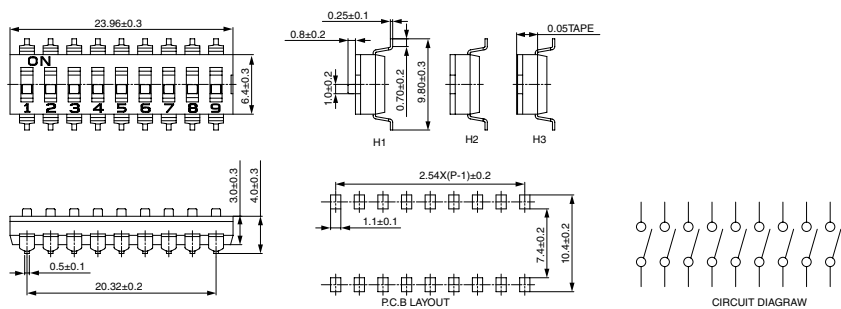
DMSD 07



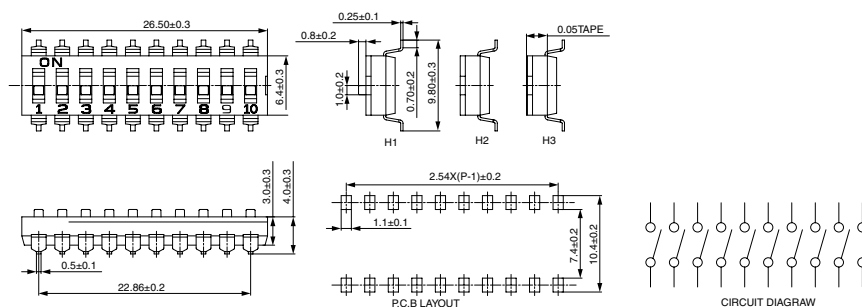
DMSD 08



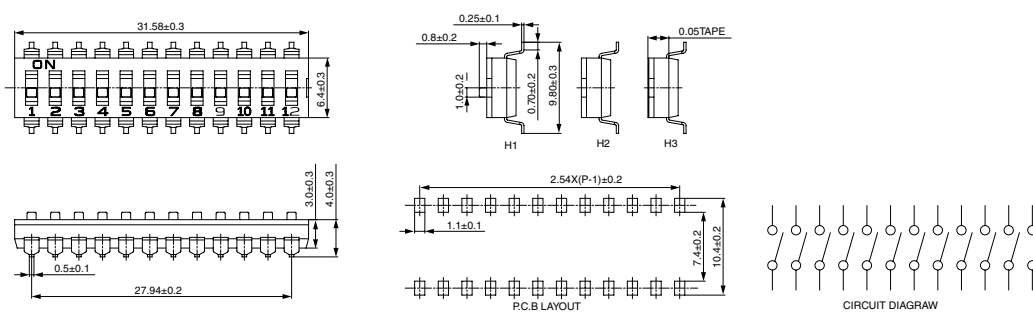
DMSD 09



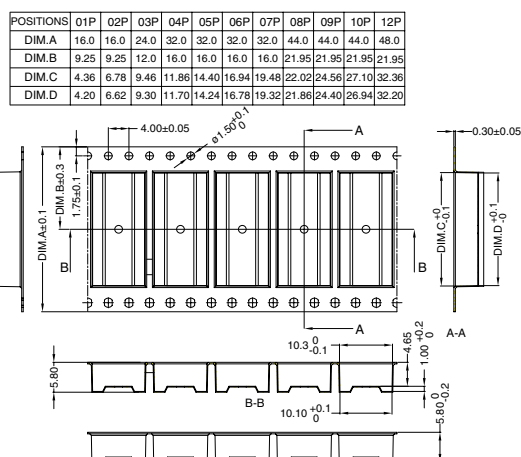
## DMSD 10



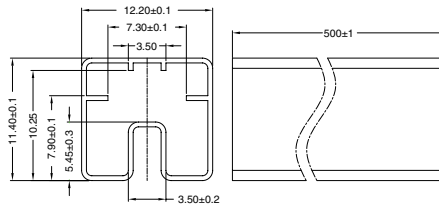
## DMSD 12



## Tape & Reel dimension



## Packing Tube



## Order number key

| D | M | S | D | - | 02 | - | H2 | - | S | - | TR |
|---|---|---|---|---|----|---|----|---|---|---|----|
| 1 |   |   |   |   | 2  |   | 3  |   | 4 |   | 5  |

| Type |   | 1    |
|------|---|------|
| DMSD | = | DMSD |

| Number of positions |   | 2  |
|---------------------|---|----|
| 01                  | = | 01 |
| 02                  | = | 02 |
| 03                  | = | 03 |
| 04                  | = | 04 |
| 05                  | = | 05 |
| 06                  | = | 06 |
| 07                  | = | 07 |
| 08                  | = | 08 |
| 09                  | = | 09 |
| 10                  | = | 10 |
| 12                  | = | 12 |

| Actuator               |   | 3  |
|------------------------|---|----|
| Raised actuator        | = | H1 |
| Recessed actuator      | = | H2 |
| Recessed actuator film | = | H3 |

| Terminal type |   | 4 |
|---------------|---|---|
| Gullwing      | = | S |

| Packing     |   | 5  |
|-------------|---|----|
| Tape & Reel | = | TR |
| Tube        | = | TU |

## Variants

| Type | Number of Positions | Actuator          | Terminal type | Packaging unit [PCS] | Packaging   | Config. Code    | Order Number |
|------|---------------------|-------------------|---------------|----------------------|-------------|-----------------|--------------|
| DMSD | 01                  | Recessed actuator | Gullwing      | 1000                 | Tape & Reel | DMSD-01-H2-S-TR | 3-162-602    |
| DMSD | 02                  | Recessed actuator | Gullwing      | 1000                 | Tape & Reel | DMSD-02-H2-S-TR | 3-162-603    |
| DMSD | 03                  | Recessed actuator | Gullwing      | 1000                 | Tape & Reel | DMSD-03-H2-S-TR | 3-162-604    |
| DMSD | 04                  | Recessed actuator | Gullwing      | 1000                 | Tape & Reel | DMSD-04-H2-S-TR | 3-162-605    |
| DMSD | 05                  | Recessed actuator | Gullwing      | 1000                 | Tape & Reel | DMSD-05-H2-S-TR | 3-162-606    |
| DMSD | 06                  | Recessed actuator | Gullwing      | 1000                 | Tape & Reel | DMSD-06-H2-S-TR | 3-162-607    |
| DMSD | 07                  | Recessed actuator | Gullwing      | 1000                 | Tape & Reel | DMSD-07-H2-S-TR | 3-162-608    |

| Type | Number of Positions | Actuator               | Terminal type | Packaging unit [PCS] | Packaging   | Config. Code    | Order Number |
|------|---------------------|------------------------|---------------|----------------------|-------------|-----------------|--------------|
| DMSD | 08                  | Recessed actuator      | Gullwing      | 1000                 | Tape & Reel | DMSD-08-H2-S-TR | 3-162-609    |
| DMSD | 09                  | Recessed actuator      | Gullwing      | 1000                 | Tape & Reel | DMSD-09-H2-S-TR | 3-162-610    |
| DMSD | 10                  | Recessed actuator      | Gullwing      | 1000                 | Tape & Reel | DMSD-10-H2-S-TR | 3-162-611    |
| DMSD | 12                  | Recessed actuator      | Gullwing      | 1000                 | Tape & Reel | DMSD-12-H2-S-TR | 3-162-612    |
| DMSD | 01                  | Recessed actuator film | Gullwing      | 1000                 | Tape & Reel | DMSD-01-H3-S-TR | 3-162-613    |
| DMSD | 02                  | Recessed actuator film | Gullwing      | 1000                 | Tape & Reel | DMSD-02-H3-S-TR | 3-162-614    |
| DMSD | 03                  | Recessed actuator film | Gullwing      | 1000                 | Tape & Reel | DMSD-03-H3-S-TR | 3-162-615    |
| DMSD | 04                  | Recessed actuator film | Gullwing      | 1000                 | Tape & Reel | DMSD-04-H3-S-TR | 3-162-616    |
| DMSD | 05                  | Recessed actuator film | Gullwing      | 1000                 | Tape & Reel | DMSD-05-H3-S-TR | 3-162-617    |
| DMSD | 06                  | Recessed actuator film | Gullwing      | 1000                 | Tape & Reel | DMSD-06-H3-S-TR | 3-162-618    |
| DMSD | 07                  | Recessed actuator film | Gullwing      | 1000                 | Tape & Reel | DMSD-07-H3-S-TR | 3-162-619    |
| DMSD | 08                  | Recessed actuator film | Gullwing      | 1000                 | Tape & Reel | DMSD-08-H3-S-TR | 3-162-620    |
| DMSD | 09                  | Recessed actuator film | Gullwing      | 1000                 | Tape & Reel | DMSD-09-H3-S-TR | 3-162-621    |
| DMSD | 10                  | Recessed actuator film | Gullwing      | 1000                 | Tape & Reel | DMSD-10-H3-S-TR | 3-162-622    |
| DMSD | 12                  | Recessed actuator film | Gullwing      | 1000                 | Tape & Reel | DMSD-12-H3-S-TR | 3-162-623    |
| DMSD | 01                  | Raised actuator        | Gullwing      | 1000                 | Tape & Reel | DMSD-01-H1-S-TR | 3-162-624    |
| DMSD | 02                  | Raised actuator        | Gullwing      | 1000                 | Tape & Reel | DMSD-02-H1-S-TR | 3-162-625    |
| DMSD | 03                  | Raised actuator        | Gullwing      | 1000                 | Tape & Reel | DMSD-03-H1-S-TR | 3-162-626    |
| DMSD | 04                  | Raised actuator        | Gullwing      | 1000                 | Tape & Reel | DMSD-04-H1-S-TR | 3-162-627    |
| DMSD | 05                  | Raised actuator        | Gullwing      | 1000                 | Tape & Reel | DMSD-05-H1-S-TR | 3-162-628    |
| DMSD | 06                  | Raised actuator        | Gullwing      | 1000                 | Tape & Reel | DMSD-06-H1-S-TR | 3-162-629    |
| DMSD | 07                  | Raised actuator        | Gullwing      | 1000                 | Tape & Reel | DMSD-07-H1-S-TR | 3-162-630    |
| DMSD | 08                  | Raised actuator        | Gullwing      | 1000                 | Tape & Reel | DMSD-08-H1-S-TR | 3-162-631    |
| DMSD | 09                  | Raised actuator        | Gullwing      | 1000                 | Tape & Reel | DMSD-09-H1-S-TR | 3-162-632    |
| DMSD | 10                  | Raised actuator        | Gullwing      | 1000                 | Tape & Reel | DMSD-10-H1-S-TR | 3-162-633    |
| DMSD | 12                  | Raised actuator        | Gullwing      | 1000                 | Tape & Reel | DMSD-12-H1-S-TR | 3-162-634    |
| DMSD | 01                  | Recessed actuator      | Gullwing      | 13000                | Tube        | DMSD-01-H2-S-TU | 3-162-635    |
| DMSD | 02                  | Recessed actuator      | Gullwing      | 7700                 | Tube        | DMSD-02-H2-S-TU | 3-162-636    |
| DMSD | 03                  | Recessed actuator      | Gullwing      | 5500                 | Tube        | DMSD-03-H2-S-TU | 3-162-637    |
| DMSD | 04                  | Recessed actuator      | Gullwing      | 4200                 | Tube        | DMSD-04-H2-S-TU | 3-162-638    |
| DMSD | 05                  | Recessed actuator      | Gullwing      | 3400                 | Tube        | DMSD-05-H2-S-TU | 3-162-639    |
| DMSD | 06                  | Recessed actuator      | Gullwing      | 2900                 | Tube        | DMSD-06-H2-S-TU | 3-162-640    |
| DMSD | 07                  | Recessed actuator      | Gullwing      | 2500                 | Tube        | DMSD-07-H2-S-TU | 3-162-641    |
| DMSD | 08                  | Recessed actuator      | Gullwing      | 2200                 | Tube        | DMSD-08-H2-S-TU | 3-162-642    |
| DMSD | 09                  | Recessed actuator      | Gullwing      | 2000                 | Tube        | DMSD-09-H2-S-TU | 3-162-643    |
| DMSD | 10                  | Recessed actuator      | Gullwing      | 1800                 | Tube        | DMSD-10-H2-S-TU | 3-162-644    |
| DMSD | 12                  | Recessed actuator      | Gullwing      | 1500                 | Tube        | DMSD-12-H2-S-TU | 3-162-645    |
| DMSD | 01                  | Recessed actuator film | Gullwing      | 13000                | Tube        | DMSD-01-H3-S-TU | 3-162-646    |
| DMSD | 02                  | Recessed actuator film | Gullwing      | 7700                 | Tube        | DMSD-02-H3-S-TU | 3-162-647    |
| DMSD | 03                  | Recessed actuator film | Gullwing      | 5500                 | Tube        | DMSD-03-H3-S-TU | 3-162-648    |
| DMSD | 04                  | Recessed actuator film | Gullwing      | 4200                 | Tube        | DMSD-04-H3-S-TU | 3-162-649    |
| DMSD | 05                  | Recessed actuator film | Gullwing      | 3400                 | Tube        | DMSD-05-H3-S-TU | 3-162-650    |
| DMSD | 06                  | Recessed actuator film | Gullwing      | 2900                 | Tube        | DMSD-06-H3-S-TU | 3-162-651    |
| DMSD | 07                  | Recessed actuator film | Gullwing      | 2500                 | Tube        | DMSD-07-H3-S-TU | 3-162-652    |
| DMSD | 08                  | Recessed actuator film | Gullwing      | 2200                 | Tube        | DMSD-08-H3-S-TU | 3-162-653    |
| DMSD | 09                  | Recessed actuator film | Gullwing      | 2000                 | Tube        | DMSD-09-H3-S-TU | 3-162-654    |
| DMSD | 10                  | Recessed actuator film | Gullwing      | 1800                 | Tube        | DMSD-10-H3-S-TU | 3-162-655    |

| Type | Number of Positions | Actuator               | Terminal type | Packaging unit [PCS] | Packaging | Config. Code    | Order Number |
|------|---------------------|------------------------|---------------|----------------------|-----------|-----------------|--------------|
| DMSD | 12                  | Recessed actuator film | Gullwing      | 1500                 | Tube      | DMSD-12-H3-S-TU | 3-162-656    |
| DMSD | 01                  | Raised actuator        | Gullwing      | 13000                | Tube      | DMSD-01-H1-S-TU | 3-162-657    |
| DMSD | 02                  | Raised actuator        | Gullwing      | 7700                 | Tube      | DMSD-02-H1-S-TU | 3-162-658    |
| DMSD | 03                  | Raised actuator        | Gullwing      | 5500                 | Tube      | DMSD-03-H1-S-TU | 3-162-659    |
| DMSD | 04                  | Raised actuator        | Gullwing      | 4200                 | Tube      | DMSD-04-H1-S-TU | 3-162-660    |
| DMSD | 05                  | Raised actuator        | Gullwing      | 3400                 | Tube      | DMSD-05-H1-S-TU | 3-162-661    |
| DMSD | 06                  | Raised actuator        | Gullwing      | 2900                 | Tube      | DMSD-06-H1-S-TU | 3-162-662    |
| DMSD | 07                  | Raised actuator        | Gullwing      | 2500                 | Tube      | DMSD-07-H1-S-TU | 3-162-663    |
| DMSD | 08                  | Raised actuator        | Gullwing      | 2200                 | Tube      | DMSD-08-H1-S-TU | 3-162-664    |
| DMSD | 09                  | Raised actuator        | Gullwing      | 2000                 | Tube      | DMSD-09-H1-S-TU | 3-162-665    |
| DMSD | 10                  | Raised actuator        | Gullwing      | 1800                 | Tube      | DMSD-10-H1-S-TU | 3-162-666    |
| DMSD | 12                  | Raised actuator        | Gullwing      | 1500                 | Tube      | DMSD-12-H1-S-TU | 3-162-667    |

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>