

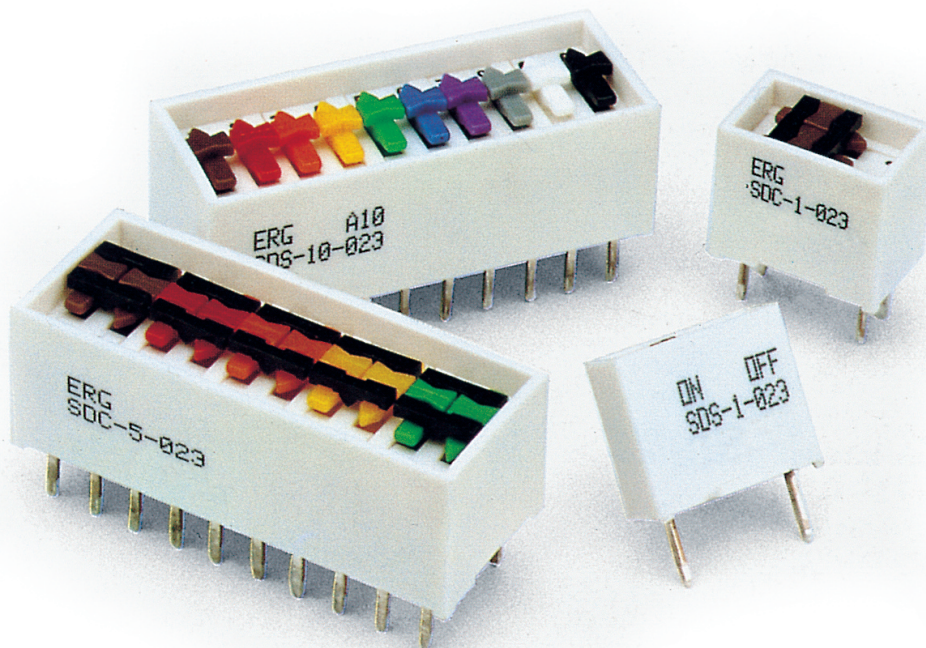
## SPECTRADIL - 023 STYLE

### SDS, SDC, SDD RANGES

This is UK industry's standard range of dual in line programme switches.

#### KEY FEATURES:

- 1 to 16 selectable s.p.s.t.
- 1 to 8 selectable d.p.s.t or s.p.d.t. (PCB linked).
- Large numerals and EIA colour coded sliders which are recessed to prevent unintentional changes to the settings.
- Base and tape sealed for flow soldering and solvent/aqueous washing.
- 1µm hard gold plated wiping contact gives high reliability in low level circuits.

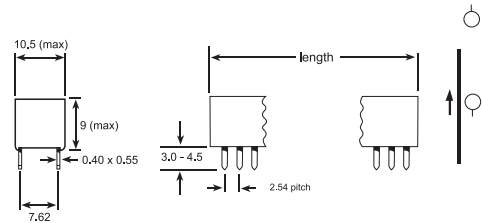
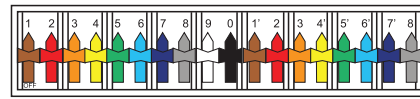


#### PRINCIPAL ELECTRICAL AND PERFORMANCE DATA (AT 20°C 70% R.H.):

- Contact Ratings: Non Switching: 100Vac, 5A Switching: 1µV to 100V, 1µA to 1A up to 10VA.
  - Initial Contact Resistance: (at 10mV, 10mA max.) Typical: 10mΩ. Max. 20mΩ.
  - Insulation Resistance: (at 500Vdc min.) 10,000MΩ.
  - Life: For the first 1000 closures the standard deviation of the change in resistance from the mean is usually less than 1mΩ. Mechanical wear out of the sliding actuator is usually observed after 10,000 operations.
  - Dielectric Strength: 1 minute: 500Vrms 50Hz.
  - Capacitance Between Open Contacts: < 1pf at 1KHz.
  - Temperature: Operating range for continuous electrical use and manual operation is restricted to -55°C to +100°C for standard products.
  - Humidity: BS 2011 Test Ca: 56 days.
  - Bump: BS 2011 Test Eb: No contact interruptions > 1µs during 4000 bumps at 390m/s<sup>2</sup> (40g).
  - Acceleration: BS 2011 Test Ga: No contact interruptions > 1µs during test at 980 m/s<sup>2</sup> (100g).
  - Vibration: BS 2011 Test Fc: 10 to 2000Hz. No contact interruptions > 1µs during test at 147m/s<sup>2</sup> (15g) or 1.0mm displacement amplitude.
  - Shock: BS 2011 Test Ea: 980 m/s<sup>2</sup> (100g). No contact interruptions > 1µs during test.
  - Soldering: solderability: < 2 seconds to wet at 235°C as per IEC 68 and BS 2011 Test T, solder bath method.
- Resistance to soldering heat as per IEC 68 and BS 2011 10 seconds satisfactory at 260°C when mounted on 1.5mm PCB.
- Please note: BS 2011 is now superseded by BS EN 60068.

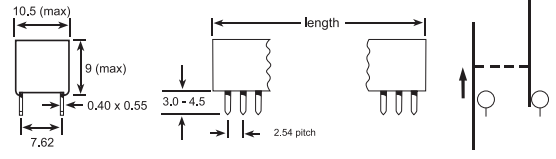
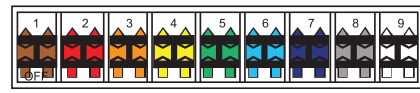
**ON/OFF S.P.S.T  
SDS 023 SERIES**

| Number of s.p.s.t | Part Nos SDS-plus suffix | Length mm max |
|-------------------|--------------------------|---------------|
| 1                 | 1-023                    | 4.0           |
| 2                 | 2-023                    | 6.7           |
| 3                 | 3-023                    | 9.0           |
| 4                 | 4-023                    | 11.8          |
| 6                 | 6-023                    | 16.8          |
| 8                 | 8-023                    | 21.9          |
| 10                | 10-023                   | 27.0          |
| 12                | 12-023                   | 32.1          |
| 16                | 16-023                   | 42.2          |



**CHANGEOVER S.P.D.T.  
SDC 023 SERIES**

| Number of s.p.s.t | Part Nos SDC-plus suffix | Length mm max |
|-------------------|--------------------------|---------------|
| 1                 | 1-023                    | 6.7           |
| 2                 | 2-023                    | 11.8          |
| 3                 | 3-023                    | 16.8          |
| 4                 | 4-023                    | 21.9          |
| 5                 | 5-023                    | 27.0          |
| 6                 | 6-023                    | 32.1          |
| 8                 | 8-023                    | 42.2          |



**GANGED ON/OFF D.P.S.T  
SDD 023 SERIES**

| Number of s.p.s.t | Part Nos SDD-plus suffix | Length mm max |
|-------------------|--------------------------|---------------|
| 1                 | 1-023                    | 6.7           |
| 2                 | 2-023                    | 11.8          |
| 3                 | 3-023                    | 16.8          |
| 4                 | 4-023                    | 21.9          |
| 5                 | 5-023                    | 27.0          |
| 6                 | 6-023                    | 32.1          |
| 8                 | 8-023                    | 42.2          |

