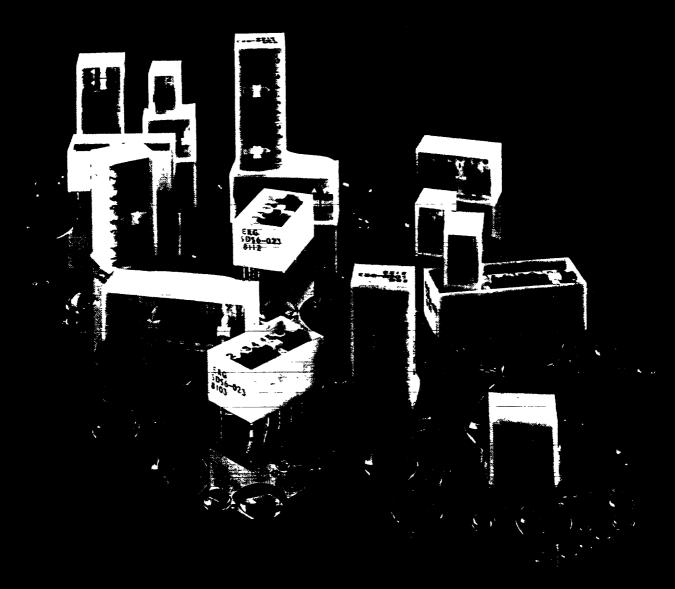
422-710

EFE GONDORIS SWITCHES, REED RELAYS & RESISTORS

Spectra DIL® Switch

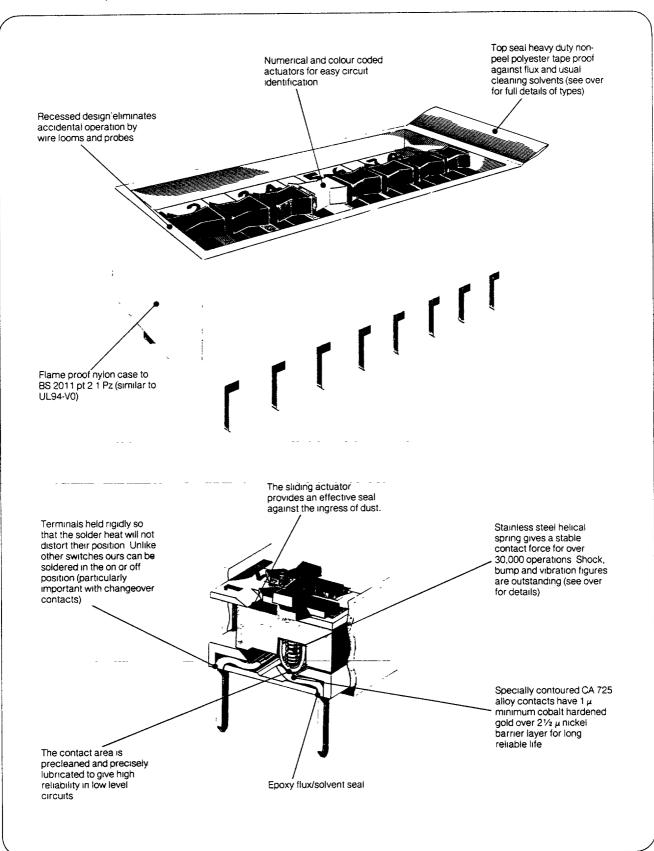
-023 Series basic models



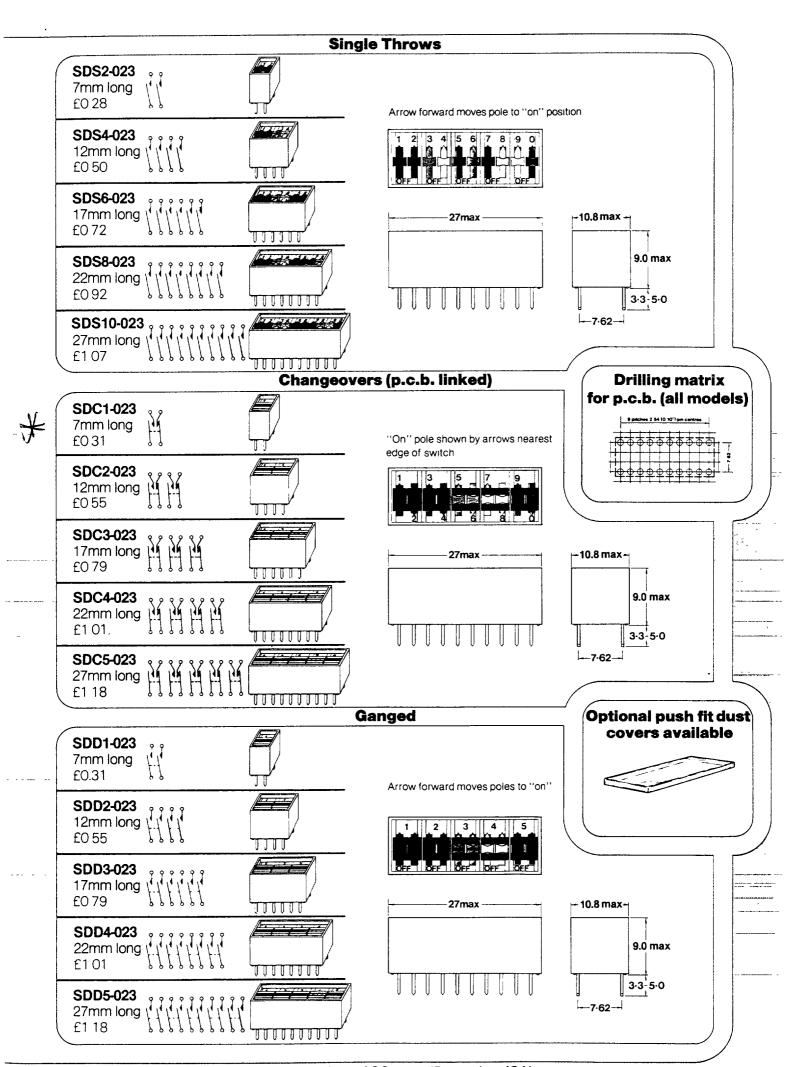
- * Designed for flow soldering and solvent cleaning.
- ****** Reliably switches from 1μ V, 1μ A up to 10VA.
- **25** standard stock models.
- ***** Life time guarantee.

SpectraDIL® 023 All you want in a DILSwitch® and a bit more.

Purpose designed for flow soldering and solvent cleaning - the top seal is factory applied and is easily removed after flow soldering. This new generation is designed to meet draft BS 9565 and exceeds the requirements of MIL-S-83504. Take a look at these unique features.



Specify with confidence, Erg Components back up these switches with a **lifetime guarantee**. Please ask for a FREE sample of any models you are interested in.



Electrical and Performance Data at 20°C, 70% R.H.

Humidity BS 2011 **Contact Ratings** Test Ca 56 days 100Vac, 5A Non Switching $1\mu V$ to 100V, $1\mu A$ to 1ASwitching No contact interruptions Bump BS 2011 Test Eb up to 10VA > 1us during 4000 bumps at 390m/s2 (40g) **Initial Contact** Resistance Acceleration BS 2011 (at 10mV, 10mA max) Test Ga No contact interruptions $10m\Omega$ Typical > 1µs during test at $20m\Omega$ Max 980 m/s² (100g) Insulation Resistance Vibration BS2011 Test 10 to 2000 Hz $100G\Omega$ at 500 Vdc Min No contact interruptions > 1µs during test at Life Typical (within rated 30,000 make/breaks 147 m/s² (15g) or 1 0mm load) test reports displacement amplitude available Shock BS 2011 Test Ea 980 m/s² (100g) **Dielectric Strength** No contact interruptions 500V rms 50 Hz 1 minute >1 µs during test Capacitance between < 2 seconds to wet at Soldering Solderability < 1pf open contacts 230°C as per IEC 68 and Temperature Range BS 2011 Test T solder Storage, electrical use bath method -55°C to +100°C and manual operation

The base of the switch is fully sealed and the top is sealed with a special polyester tape that should only be removed after flow soldering and solvent cleaning Once removed the tape cannot be reapplied to provide a good seal We have carried out tests using various manufacturers' solvents for 5 minutes total immersion which is more severe than can be expected in practice (some ultrasonically 40 KHz pulsed at 100Hz - see below) and found no deterioration of the integrity of the seal or of the plastic/metal subcomponents and seals System Type - 1,1,1 -trichloroethane (stabilised) Examples tried.

Chlorothene VG, Genklene LV - hot (71-81°C), cold

400 grams

System Type · 1,1,2 · trichloro-1,2,2 -trifluoroethane/ethanol azeotrope) Examples tried Flourisol E, Freon TE, Arklone A - cold System Type - 1,1,2 - trichloro-1,2,2 -trifluoroethane/isopropanol azeotrope) Examples tried Arklone L - hot (48°C), cold + ultrasonics System Type · Trichloroethylene Examples tried Triklone N - hot (87°C)

Resistance to Soldering

heat

We have also carried out flux tests using both water based (SG 0 945) and isopropyl alcohol based (SG 0 825) resin (colophony) fluxes, for five minutes total immersion, and easily met BS 9565 test requirements of <5 m Ω change in contact resistance and <10% change in operating force.

Distributors

The following distributors stock the most popular items from our switch range for same day dispatch and they also have full access to our in depth factory stock of over 100,000 switches covering every model.

Farnell Electronic Components Ltd. Telephone Leeds (0532) 636311

Telex 55147 Hitek Distribution Ltd.

+ ultrasonics

+4

Operating Force

Per Pole or Wiper

-Typical

Telephone 0954 81996 Telex 817347

Intel Electronics Ltd.

Telephone Hitchin (0462) 812505 Telex 825637

A.M. Lock & Co. Ltd. Telephone Oldham 061-652 0431 Telex 669971

Semiconductor Supplies International Ltd.

Telephone 01-643 1126 Telex 946650

VSI Electronics (U.K.) Ltd.

Telephone Harlow (0279) 29666 Telex 81387

Erg Component Switches Reed Allar's a Pec

as per IEC 68 and BS

satisfactory at 260°C

2011 10 seconds

when mounted on 15mmpcb

Erg Industrial Corporation Ltd., Luton Road, Dunstable, Bedfordshire LU5 4LJ England **念** 0582 - 62241 **奶** 82349