

## SERIES 39 – PUSHBUTTON DATA SWITCH

### FEATURES

- Bifurcated silver wiping contacts – self cleaning action
- Wide range of colours – for design and flexibility
- Momentary or alternate action – for all keycap styles
- High brightness LEDs – for strong indication
- Choice of cap styles – for any keypad application
- Light pipe version – gives 'spot' indication

### NON-STANDARD OPTIONS

- Choice of operating forces
- Custom designed keytops
- Gold plated contacts

## Technical Information

### Series 39

The Series 39 miniature pushbutton switch is ideally suited for high density requirements where front panel space is at a premium. This Series offers full jewelled illumination on the lenscap version and spot illumination on the keycap version (transmitted through a 'light pipe'). To complete the range of caps an insertable legend keycap, which can be illuminated by an integral LED, is offered as a non-standard option. Proven bifurcated normally open contacts give high integrity, logic level switching. The switches are designed to position between a front panel and a PCB with an optional right angle connector also being available.

### Mechanical

|                 |             |                              |
|-----------------|-------------|------------------------------|
| Travel          |             | 3mm reference                |
| Life            | - Momentary | 10 <sup>6</sup> cycles       |
|                 | - Alternate | 2,5 x 10 <sup>4</sup> cycles |
| Operating force |             | 1,1N                         |

### Electrical (at 25°C)

|                              |             |                              |
|------------------------------|-------------|------------------------------|
| Current                      | - Maximum   | 250mA, 30V d.c. resistive    |
|                              | - Minimum   | 1mA 0,5V d.c. resistive      |
| Life                         | - Momentary | 10 <sup>6</sup> cycles       |
|                              | - Alternate | 2,5 x 10 <sup>4</sup> cycles |
| Dielectric strength          |             | 500V a.c., 1 minute          |
| Insulation resistance        |             | 20GΩ @ 500V d.c.             |
| Contact resistance (initial) |             | 25mΩ                         |

### Environmental & Physical

|                        |  |                            |
|------------------------|--|----------------------------|
| Ingress protection     |  | IP 20                      |
| Shock (Min)            |  | 50g                        |
| Temperature            |  | -20°C to +70°C             |
| Body Material          |  | PPO                        |
| Lenscap and insertable |  |                            |
| Legend cap material    |  | ABS                        |
| Light pipe material    |  | Acrylic                    |
| Contacts/terminals     |  | Silver plated copper alloy |

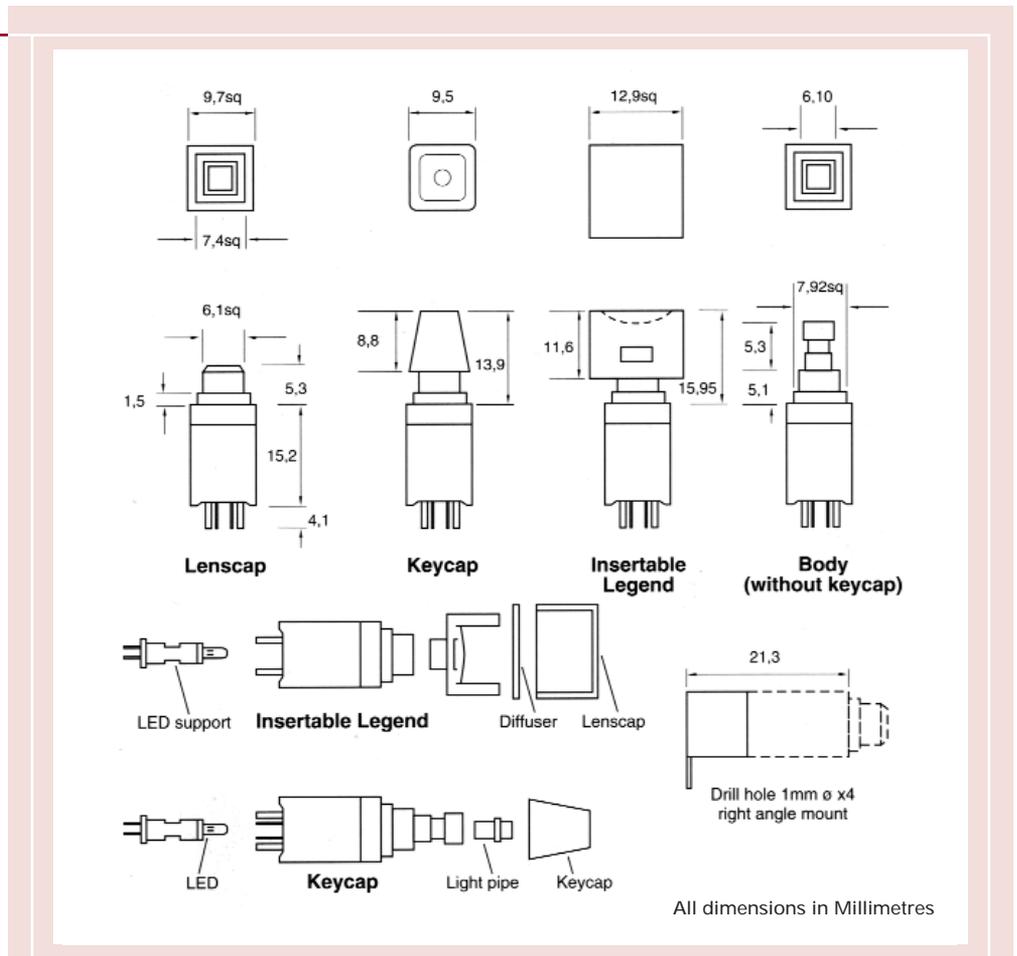


# SERIES 39

## Pushbutton Data Switch

### Technical Information

#### Product Dimensions



#### Circuit Form



#### Application References

- Portable instrumentation
- Audio/video mixing desks
- Computers/data communications equipment
- Automotive controls
- Telecommunication PABX equipment
- Switching networks and modems
- Professional high fidelity equipment

#### Further Information

For further information on our complete range of switch products, visit our website – [www.itwswitchcon.com](http://www.itwswitchcon.com) or contact our Sales Office.