

SERIES 39 - PUSHBUTTON DATA SWITCH

FEATURES

- Bifurcated silver wiping contacts self cleaning action
- Wide range of coloursfor design and flexibility
- Momentary or alternate action
 for all keycap styles
- High brightness LEDsfor strong indication
- Choice of cap stylesfor any keypad application
- Light pipe versiongives '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° cycles

- Alternate 2.5×10^4 cycles force 1.1N

Operating force

Electrical (at 25°C)

Current – Maximum 250mA, 30V d.c. resistive

– Minimum 1mA 0,5V d.c. resistive

Life – Momentary 10° cycles - Alternate 2,5 x 10° cycles

 $\begin{array}{ll} \mbox{Dielectric strength} & \mbox{500V a.c., 1 minute} \\ \mbox{Insulation resistance} & \mbox{20G}\Omega @ \mbox{500V d.c.} \\ \end{array}$

Contact resistance (initial) $25m\Omega$

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

Ordering Information

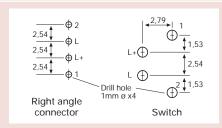
Cap Style			39 –
	Lenscap (illuminated)	1	
	Keycap	2	
Action			
	Momentary	2	
	Alternate	3	
Гуре of Illumination			
	LED not fitted but LED support fitted	1	
	Non illuminated keycap	5	
	(for spot illuminated keycap or illuminated lenscap choose a colour of illumination below)		
	Red LED	6	
	Green LED	7	
	Yellow LED	8	
∟ens Colour/Style			
	Lenscap (Illuminated)		
	Clear	51	
	Red	52	
	Green	53	
	Yellow Keycap (Illuminated or	54	
	Non-illuminated)		
	Light grey	02	
	Dark grey	03	
	Black	04	
Customisation			
	The Series 39 has many non-standard options presenting you with an ideal opportunity to		

The Series 39 has many non-standard options presenting you with an ideal opportunity to 'customise' to your own specification. The options include gold plated contacts for logic level switching, various operating forces for any application requiring high or low force switching and an insertable legend keycap which can be illuminated.

(The standard parts for this are:

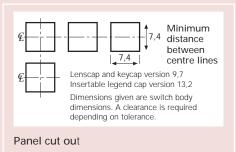
Momentary 39-309000 or Alternate 39-309001)

If you should require any of the above non-standard options, please contact the Sales Office.



PCB layout, viewed from component

(All measurements in Millimetres)



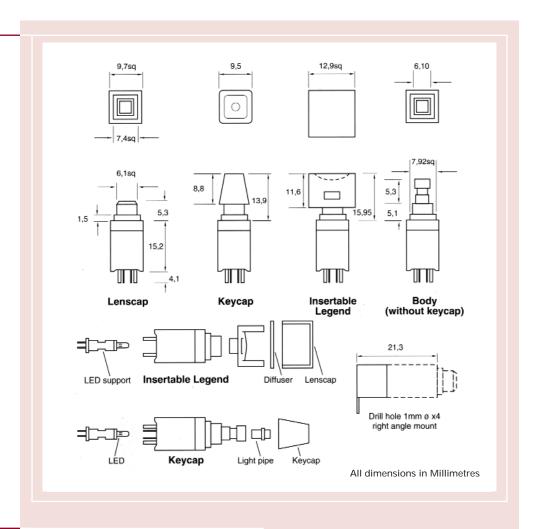
(When using additional support at front of switch)

(All measurements in Millimetres)

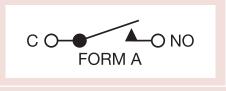
SERIES 39 Pushbutton Data Switch

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 or contact our Sales Office.

