ILLUMINATED ENCODERS & KNOBS

Illuminated shaft encoders when used with our various translucent knobs, can enhance the appearance of many kinds of electronic product.

Options / Combinations
- Single colour LED
- Dual colour LED
- RGB version - Variable colour output
- Horizontal or Vertical PCB mounting.
- Standard shaft 6mm knurled / 18T.
- 24 pulses / Rev
- RoHS / REACH compliant.
- With or without indent (click)
- With or without push switch (momentary)

Encoder Details
Horizontal Type, Single colour without switch.
- Blue FC4565L
- Red FC4565R
- Green FC4565G

Vertical Type, Single colour without switch.
- Blue FC4560L
- Red FC4560R
- Green FC4560G

Horizontal Type, Dual colour with switch.
- Blue/Green FC4566LG
- Red/Green FC4566RG
- Blue/Orange FC4566LO

Vertical Type, Dual colour with switch.
- Blue/Green FC4561LG
- Red/Green FC4561RG
- Blue/Orange FC4561LO
- Red/Green/Blue FC4561RGB

Non standard LED colours subject to minimum lot qtys.

Knob Details
CL170976 - Knob K85 Translucent 6mm SPL
CL1709761 - Translucent Cap
CL1709762 - Translucent Cap with black marker line
CL1709763 - Water Clear Cap

Other cap colours are available, either plain or with a marker line. Enquire to sales.
**Specification**

- **Pulses:** 24 / Rev
- **Contact Rating:** 0.5mA 5VDC
- **Dielectric Strength:** 300VAC / 1mA, 1 minute
- **Insulation Resistance:** 100MΩ at 250VAC
- **Operating Speed (MAX):** 60 RPM
- **Switch Power Rating:** (where fitted) 5VDC 10mA
- **Switch Contact Resistance:** (where fitted) 5VDC 10mA
- **For detailed electrical / mechanical specs., contact sales for PDF.**

**LED characteristics**

<table>
<thead>
<tr>
<th>Emitted Colour</th>
<th>Power Dissipation</th>
<th>DC Forward Current</th>
<th>Forward voltage (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Typical</td>
<td>Max</td>
</tr>
<tr>
<td>Red</td>
<td>58mW</td>
<td>25mA</td>
<td>1.8</td>
</tr>
<tr>
<td>Green/Red</td>
<td>120/75mW</td>
<td>30mA</td>
<td>3.2/1.9</td>
</tr>
<tr>
<td>Blue</td>
<td>80mW</td>
<td>20mA</td>
<td>3.2</td>
</tr>
<tr>
<td>Blue/Orange</td>
<td>105/75mW</td>
<td>30mA</td>
<td>3.3/2.1</td>
</tr>
<tr>
<td>Green</td>
<td>63mW</td>
<td>25mA</td>
<td>3.2</td>
</tr>
<tr>
<td>Blue/Green</td>
<td>120/120</td>
<td>30mA</td>
<td>3.3/3.2</td>
</tr>
</tbody>
</table>

**Test Conditions TF=20mA**

**VERTICAL TYPE**

**HORIZONTAL TYPE**

For further information, contact sales@cliffuk.co.uk