

CLIFF

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.



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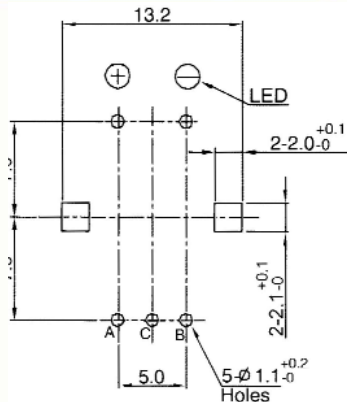
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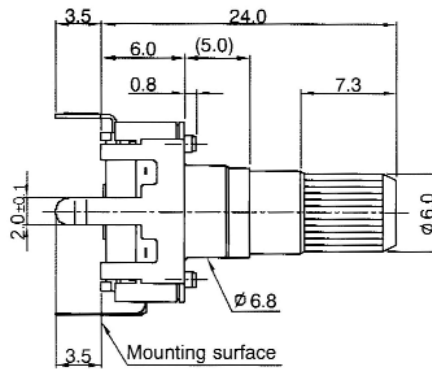
Visit us online at:

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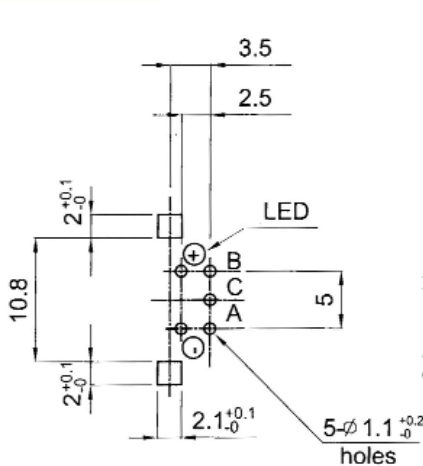
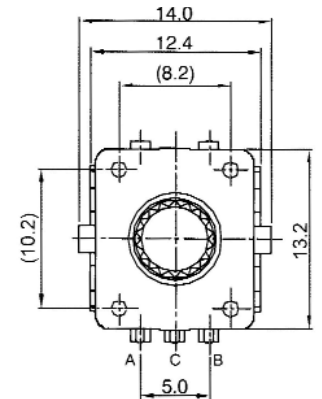
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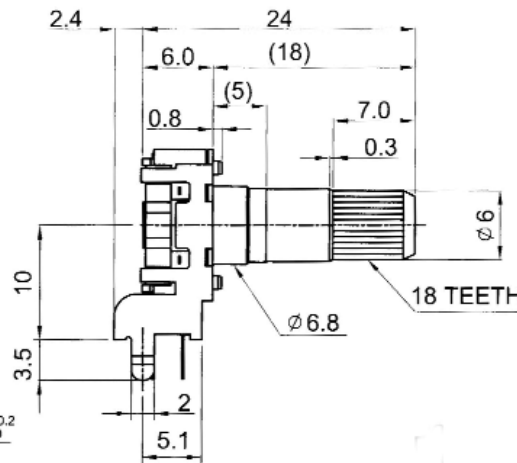
Mounting holes detail viewed from mounting side
P.C.B t=1.6mm



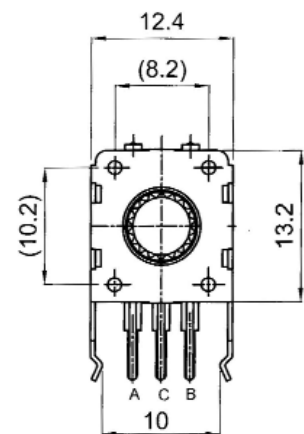
VERTICAL TYPE - SINGLE COLOUR



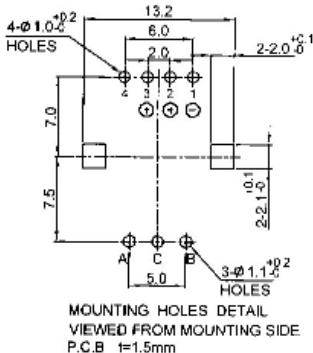
P.W.B MOUNTING DETAIL
(TOLERANCE±0.1)
VIEWED FROM MOUNTING SIDE
(P.C.B) t=1.6mm



HORIZONTAL TYPE - SINGLE COLOUR

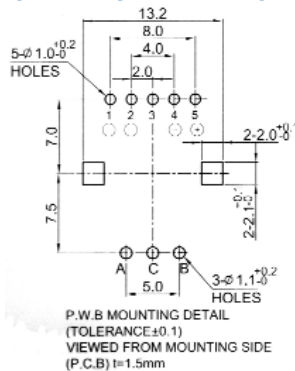


DUAL COLOUR PCB LAYOUT VERTICAL TYPE



MOUNTING HOLES DETAIL
VIEWED FROM MOUNTING SIDE
P.C.B t=1.5mm

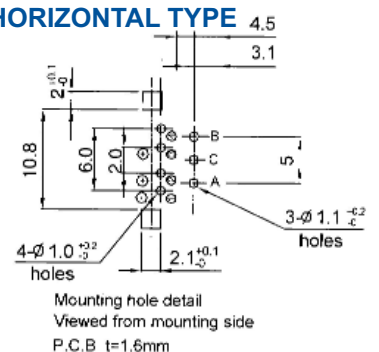
VARIABLE COLOUR PCB LAYOUT MODEL RGB - VERTICAL TYPE



P.W.B MOUNTING DETAIL
(TOLERANCE±0.1)
VIEWED FROM MOUNTING SIDE
(P.C.B) t=1.5mm

(encoder dims same as single colour)

DUAL COLOUR PCB LAYOUT HORIZONTAL TYPE



Mounting hole detail
Viewed from mounting side
P.C.B t=1.6mm

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: 100mΩ Max.

For detailed electrical / mechanical specs., contact sales for PDF.

LED characteristics

Test Conditions TF=20mA

| Emitted Colour | Power Dissipation | DC Forward Current | Forward voltage (V) | |
|----------------|-------------------|--------------------|---------------------|---------|
| | | | Typical | Max |
| Red | 58mW | 25mA | 1.8 | 2.6 |
| Green/Red | 120/75mW | 30mA | 3.2/1.9 | 4.0/2.5 |
| Blue | 80mW | 20mA | 3.2 | 3.6 |
| Blue/Orange | 105/75mW | 30mA | 3.3/2.1 | 4.0/2.5 |
| Green | 63mW | 25mA | 3.2 | 3.6 |
| Blue/Green | 120/120 | 30mW | 3.3/3.2 | 4.0/4.0 |