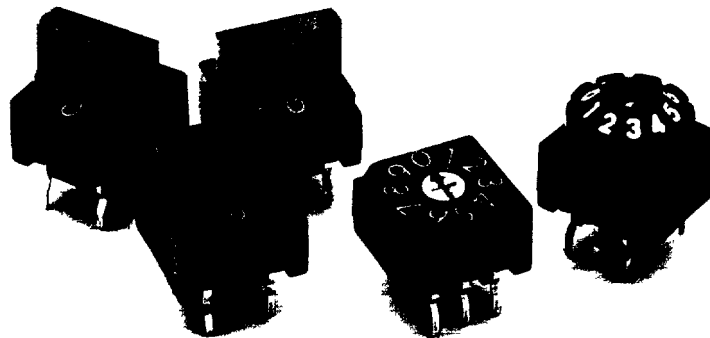
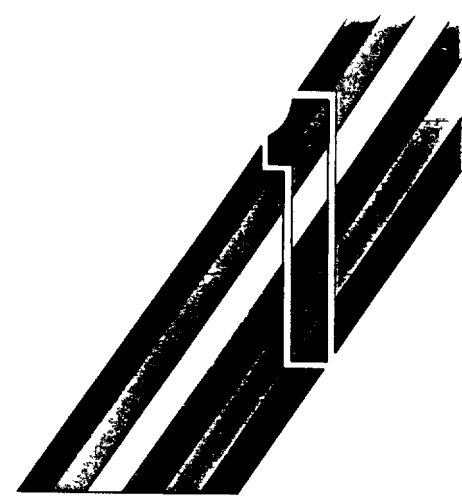


# Rotary Coded SWITCHES

BCD (10 position) and hexadecimal (16 position), real and complimentary codes.

- Fully sealed and suitable for flow soldering and solvent cleaning, these switches have a black polyamide casing (UL94 rated) and bold white characters.
- Choice of low profile screwdriver operated, knurled knob or large easy to operate colour coded knobs.
- Gold plated wiping contacts for reliable low level switching.
- In depth, production volume, stocks held in Dunstable and at numerous distributors.

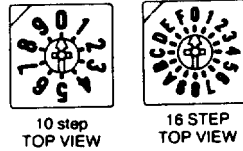


## Flat Type

(Screwdriver operation)

### 10 position BCD

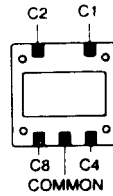
ERG 10-112 <sup>⊙</sup>  
Real code



ERG 10-122 <sup>⊙</sup>  
Compliment code

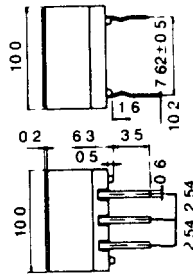
### 16 position HEX

ERG 16-112 <sup>⊙</sup>  
Real code



ERG 16-122 <sup>⊙</sup>  
Compliment code

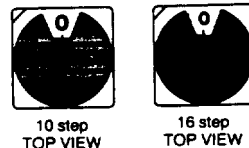
Mass 0.8g max  
Operating force at rotor centre 300g. cm. max.



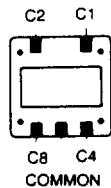
### Large Knob Style

#### 10 position BCD

ERG 10-412/2 (Red Knob) <sup>⊙</sup>  
ERG 10-412/5 (Green Knob)  
ERG 10-412/6 (Blue Knob)  
Real code

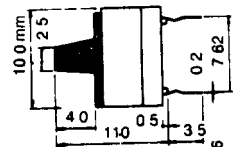


ERG 10-422/2 (Red Knob) <sup>⊙</sup>  
ERG 10-422/5 (Green Knob)  
ERG 10-422/6 (Blue Knob)  
Compliment code

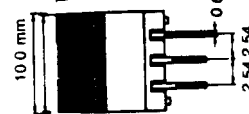


#### 16 position HEX

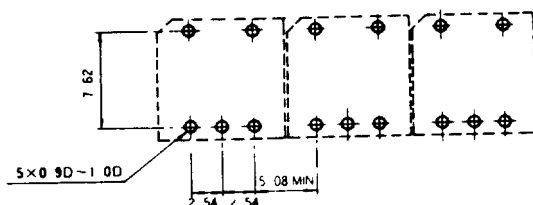
ERG 16-412/2 (Red Knob) <sup>⊙</sup>  
ERG 16-412/5 (Green Knob)  
ERG 16-412/6 (Blue Knob)  
Real code



ERG 16-422/2 (Red Knob) <sup>⊙</sup>  
ERG 16-422/5 (Green Knob)  
ERG 16-422/6 (Blue Knob)  
Compliment code



### Drilling Matrix (All Types)



### Code Table

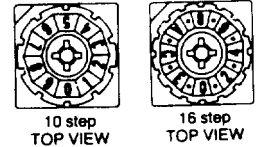
● = real code ○ = compliment code

Pin No	Position (BCD & HEX)															
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
C 1		●		●		●		●		●		●		●		●
C 2		○	●		○	●		○	●		○	●		○	●	
C 4		○		○	●		○	●		○	●		○	●		○
C 8		○		○		○	●		○	●		○	●		○	●

## Indicator Type

### 10 position BCD

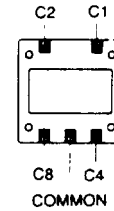
ERG 10-312  
Real code



ERG 10-322  
Compliment code

### 16 position HEX

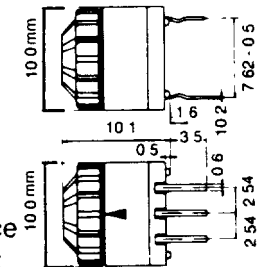
ERG 16-312  
Real code



ERG 16-322  
Compliment code

Suitable for vertical & horizontal (edge of pcb operation)

Mass 1g. max Operating force of rotor centre 300g. cm. max



This range is manufactured to our specification in Japan

⊙ = Also held by most distributors - see pages 26/27

## Full Electrical and Environmental Performance Data

**Electrical:** at 20°C ± 5°C, 75% RH and initial values unless otherwise stated.

**Contact Ratings (Max):**  
(a) 30V switched, 100Vrms non switching  
(b) 125mA switched or carried at 85°C max.

**Contact Resistance**  
(100% checked) 100mΩ max. measured at 10m V d.c./10mA max, initial value and after —  
(a) 20,000 detent steps at rated current  
(b) Storage for 240 hours at 85°C carrying rated current  
**Contact Life**  
Reliability (16 position switches) An analysis of nearly 4,000,000 dry circuit contact closures monitored (after closure) at 10mVd.c./10mA max disclosed:  
(a) > 99.998% of results < 100mΩ.  
(b) No contact resistance > 20Ω

**Insulation Resistance**  
(100% checked) 1,000 MΩ min. at 240Vd.c. (1 minute) initial and after —  
(a) 10 days exposure to 90-95% RH at 40°C  
(b) 1,000 complete rotations of 16 detents

**Dielectric Strength:** 250Vrms (1 minute)

**Inter Contact Capacitance:** 5pf max at 1MHz

**Environmental Temperature category:** -55°C to + 85°C

**Climatic category:** 55/85/10 storage and use

**Vibration**  
Shock 10-200Hz 1.52mm or 15g, 50g, 11ms