# BCK BINARY CODED ROTARY SWITCH

## GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

**RoHS COMPLIANT**

| | |
|---|---|
| Switch Rating: | 150mA@50Vac/dc resistive only |
| Life: | >10,000 Cycles |
| Operating Temperature: | -30ºC to +85 ºC |
| Proof Voltage: | 250Vac (Initial) |
| Insulation Resistance: | >999 MΩ at 500Vdc (Initial) |
| Contact Resistance: | <50 mΩ (Initial) |
| Operating Torque (nominal) | Standard 4.7 ± 0.5 cNm |
| End Stop Torque (nominal): | 0.8 Nm |
| Moulding Material: | Polyamide 6.6 G.F. |
| Contact/Terminal Material: | Brass CZ108 Ag Plated |



## GENERAL FEATURES

- Made in UK
- Binary coded Hexadecimal and complimentary versions.
- Moulded 27.5mm diameter single wafer switch.
- Standard 22.5º indexing
- Printed Circuit Terminals.
- Adjustable stop to restrict number of positions or continuous rotation.
- Special options include UL-V0 rated material, gold flashed or gold plated (2.5 microns gold over 2 microns nickel) contacts, spindles with special flats or slots.

## STANDARD PART NUMBER

| BASIC TYPES | SPINDLE DIAMETER | SPINDLE LENGTH FROM MOUNTING FACE | 8mm LONG BUSH | SPINDLE FLAT LENGTH | ANGLE OF SPINDLE FLAT | SPINDLE FLAT THICKNESS |
|---|---|---|---|---|---|---|
| IMPERIAL | 6.35mm | 38mm | 9.52 x 32TPI | 30mm | 90º | 5.5mm |
| METRIC | 6.00mm | 50mm | M10 x 0.75 | No Flat | --- | --- |

| | STANDARD METRIC | | STANDARD IMPERIAL | |
|---|---|---|---|---|
| | Stop | No Stop | Stop | No Stop |
| Hex (Code 033) – Standard Spindle | BCK1002 (no lug) | BCK1001 (no lug) | BCK1006 (lug) | BCK1005 (lug) |
| Comp (Code 043) – Standard Spindle | BCK1004 (no lug) | BCK1003 (no lug) | BCK1008 (lug) | BCK1007 (no lug) |
| Hex (Code 033) – Flush Slot | - | BCK1009 (lug) | BCK1014 (lug) | - |
| Comp (Code 042) – Flush Slot | - | - | BCK1019 (lug) | BCK1020 (lug) |

( please see drawing detail for lug reference)

| | COMMON E Connection to Terminals | | | |
|---|---|---|---|---|
| DIAL | A | B | C | D |
| 1 | • | | | |
| 2 | | • | | |
| 3 | • | • | | |
| 4 | | | • | |
| 5 | • | | • | |
| 6 | | • | • | |
| 7 | • | • | • | |
| 8 | | | | • |
| 9 | • | | | • |
| 10 | | • | | • |
| 11 | • | • | | • |
| 12 | | | • | • |
| 13 | • | | • | • |
| 14 | | • | • | • |
| 15 | • | • | • | • |
| 16 | | | | |

LORLIN BINARY CODED HEXADECIMAL COMPLIMENTARY COMMON –16 POSITIONS

**CODE 033**

| | COMMON E Connection to Terminals | | | |
|---|---|---|---|---|
| DIAL | A | B | C | D |
| 1 | | | | |
| 2 | | | | • |
| 3 | | | • | |
| 4 | | | • | • |
| 5 | | • | | |
| 6 | | • | | • |
| 7 | | • | • | |
| 8 | | • | • | • |
| 9 | • | | | |
| 10 | • | | | • |
| 11 | • | | • | |
| 12 | • | | • | • |
| 13 | • | • | | |
| 14 | • | • | | • |
| 15 | • | • | • | |
| 16 | • | • | • | • |

LORLIN BINARY CODED HEXADECIMAL NON COMPLIMENTARY COMMON –16 POSITIONS

**CODE 042**

| | COMMON E Connection to Terminals | | | |
|---|---|---|---|---|
| DIAL | A | B | C | D |
| 1 | • | • | • | • |
| 2 | • | • | • | |
| 3 | • | • | | • |
| 4 | • | • | | |
| 5 | • | | • | • |
| 6 | • | | • | |
| 7 | • | | | • |
| 8 | • | | | |
| 9 | | • | • | • |
| 10 | | • | • | |
| 11 | | • | | • |
| 12 | | • | | |
| 13 | | | • | • |
| 14 | | | • | |
| 15 | | | | • |
| 16 | | | | |

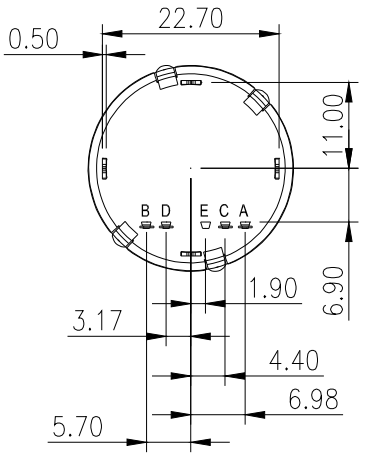
LORLIN BINARY CODED HEXADECIMAL COMPLIMENTARY COMMON –16 POSITIONS

**CODE 043**



Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk | www.lorlin.co.uk

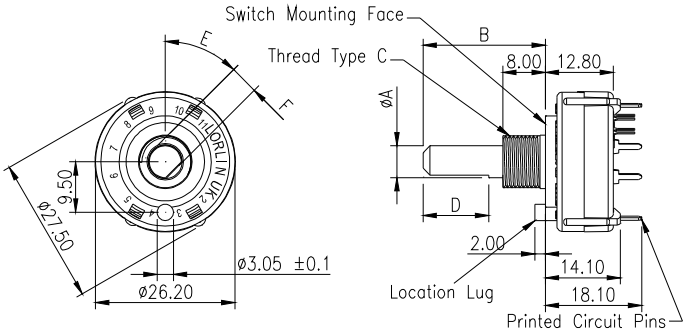
# BCK BINARY CODED ROTARY SWITCH




CUSTOMER TO COMPLETE OR DELETE AS REQUIRED

| | A | B | C |
|---|---|---|---|
| IMPERIAL | Ø6.35 | | Ø9.52 x 32TPI |
| METRIC | Ø6.00 | | M10 x 0.75 |

| | D | E | F |
|---|---|---|---|
| IMPERIAL | | | |
| METRIC | | | |




## STANDARD SPINDLE DETAILS

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| BASIC TYPES | SPINDLE DIAMETER | SPINDLE LENGTH FROM MOUNTING FACE | 8mm LONG BUSH | SPINDLE FLAT LENGTH | ANGLE OF SPINDLE FLAT | SPINDLE FLAT DEPTH |
| IMPERIAL | 6.35mm | 38mm | 9.52 x 32TPI | 30mm | 90º | 5.5mm |
| METRIC | 6.00mm | 50mm | M10 x 0.75 | No Flat | --- | --- |

## TO ORDER PLEASE SPECIFY:

1. Switching Code
2. Imperial or Metric Spindle Diameter
3. Dimension (B) Spindle length from Mounting Face
4. Thread Required (C)
5. Spindle Flat length if required (D)
6. Angle of Flat (E)
7. Spindle Flat Depth (F)
8. 16 Position or No Stop Version
9. Contact Plating: Silver/Gold Flash/2.5 microns Gold Plate
10. Location Lug if required

## STANDARD ANGLES OF SCREWDRIVER SLOTS

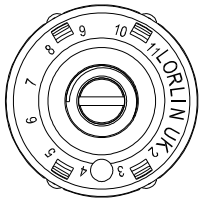
Standard screwdriver slots are 1.2mm wide and 1.5mm deep.




## TYPICAL SPINDLE DETAILS




Orientation with location lug in position shown.




**EXAMPLE**
Screwdriver slot level with top of threaded fixing bush 1.2mm wide x 1.5mm deep (standard) at 90º (standard)


Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk | www.lorlin.co.uk