# LORLIN

## ROTARY SWITCH

## BCKS BINARY CODED ROTARY SWITCH IP66/IP67

### ELECTRICAL & MECHANICAL SPECIFICATION

| | |
|---|---|
| **Switch Rating:** | 150mA @ 24V ac/dc |
| **Proof Voltage:** | 250V ac (Initial) |
| **Insulation Resistance:** | >999 MΩ at 500V dc (Initial) |
| **Contact Resistance** | <50 mΩ (Initial) |
| **Terminal Material:** | Brass, CZ108 Sn Plated |

| | |
|---|---|
| **Life:** | >10,000 Cycles |
| **Operating Temperature:** | -30°C to +85°C |
| **Operating Torque (nominal):** | Standard 4.7 ± 0.5 cNm |
| **End Stop Torque (nominal):** | 0.8 Nm |
| **Housing/Bush Material** | Polyamide 6.6 G.F |

### FEATURES

| Panel Sealed IP66/67 | Smooth feel operation |
|---|---|

Binary coded Hexadecimal and complimentary versions

Adjustable stop to restrict number of positions
Note: If stop washer not used, do not fit the backing ring
to maintain O ring IP panel sealing.

Spindles with special flats, slots or knurls        Made in the UK
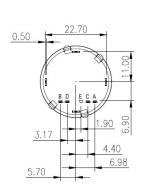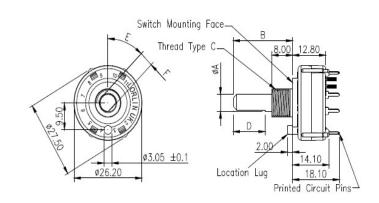
Standard 22.5° indexing

Moulded 27.5mm diameter

UL-V0 rated material option

PCB Terminals
+extra stabilising terminals

Standard silver contacts, gold
flashed or gold plated also available



### STANDARD PART NUMBERS

| 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 | 90° | 5.5mm |
| METRIC | 6.00mm | 50mm | M10 x 0.75 | No Flat | --- | --- |

| PANEL SEALED TO IP65 RATING | STANDARD METRIC | | STANDARD IMPERIAL | |
|---|---|---|---|---|
| | Stop | No Stop | Stop | No Stop |
| Hex  (Code 033) – Standard Spindle | BCKS1002 (no lug) | BCKS1001 (no lug) | BCKS1006 (lug) | BCKS1005 (lug) |
| Comp (Code 043) – Standard Spindle | BCKS1004 (no lug) | BCKS1003 (no lug) | BCKS1008 (lug) | BCKS1007 (no lug) |
| Hex  (Code 033) – Screwdriver Slot | - | BCKS1009 (no lug) | BCKS1014 (no lug) | - |
| Comp (Code 042) – Standard Spindle | - | - | BCKS1019 (lug) | BCKS1020 (lug) |

(Please see drawing detail for lug reference)

**CODE 033**

| Position | A | B | C | D |
|----------|---|---|---|---|
| 1 | • | | | |
| 2 | | • | | |
| 3 | • | • | | |
| 4 | | | • | |
| 5 | • | | • | |
| 6 | | • | • | |
| 7 | • | • | • | |
| 8 | | | | • |
| 9 | • | | | • |
| A | | • | | • |
| B | • | • | | • |
| C | | | • | • |
| D | • | | • | • |
| E | | • | • | • |
| F | • | • | • | • |
| 0 | | | | |

LORLIN BINARY CODED HEXADECIMAL
START AT POSTION 1 – 16 POSITIONS

**CODE 042**

| Position | A | B | C | D |
|----------|---|---|---|---|
| 0 | | | | |
| 1 | | | | • |
| 2 | | | • | |
| 3 | | | • | • |
| 4 | | • | | |
| 5 | | • | | • |
| 6 | | • | • | |
| 7 | | • | • | • |
| 8 | • | | | |
| 9 | • | | | • |
| A | • | | • | |
| B | • | | • | • |
| C | • | • | | |
| D | • | • | | • |
| E | • | • | • | |
| F | • | • | • | • |

LORLIN BINARY CODED HEXADECIMAL
START AT POSITION 0 – 16 POSITIONS

**CODE 043**

| Position | A | B | C | D |
|----------|---|---|---|---|
| F | • | • | • | • |
| E | • | • | • | |
| D | • | • | | • |
| C | • | • | | |
| B | • | | • | • |
| A | • | | • | |
| 9 | • | | | • |
| 8 | • | | | |
| 7 | | • | • | • |
| 6 | | • | • | |
| 5 | | • | | • |
| 4 | | • | | |
| 3 | | | • | • |
| 2 | | | • | |
| 1 | | | | • |
| 0 | | | | |

LORLIN BINARY CODED HEXADECIMAL
START AT POSITION F - 16 POSITIONS

## SPINDLE DIMENSIONS

| | 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 | 90° | 5.5mm |
| METRIC | 6.00mm | 50mm | M10 x 0.75 | No Flat | --- | --- |

## STANDARD SCREWDRIVER SLOT ANGLES

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

0°    45°    90°    135°

## TYPICAL SPINDLE DETAILS

0°    90°    180°    270°

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 90°
(standard)

## BCKS ORDERING: DETAILS NEEDED

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