

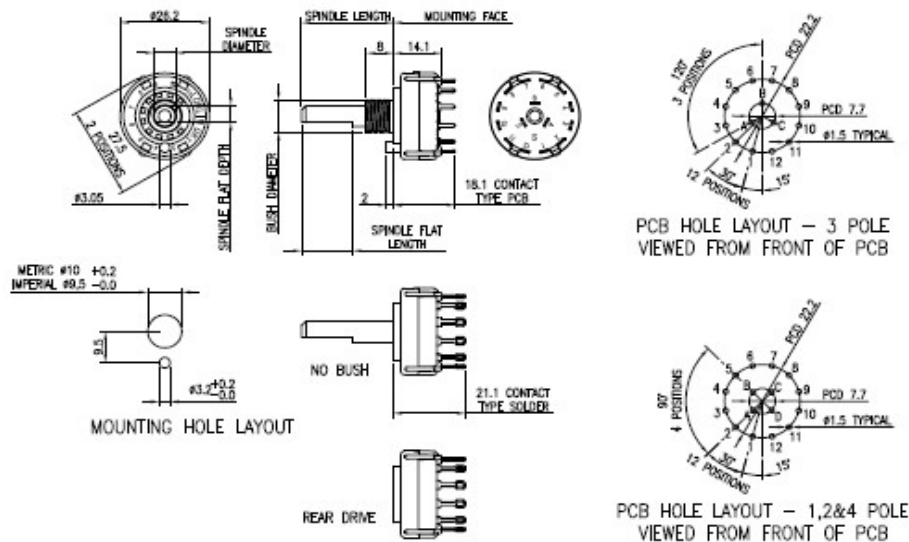
## CKF IP65 SEALED ROTARY SWITCH

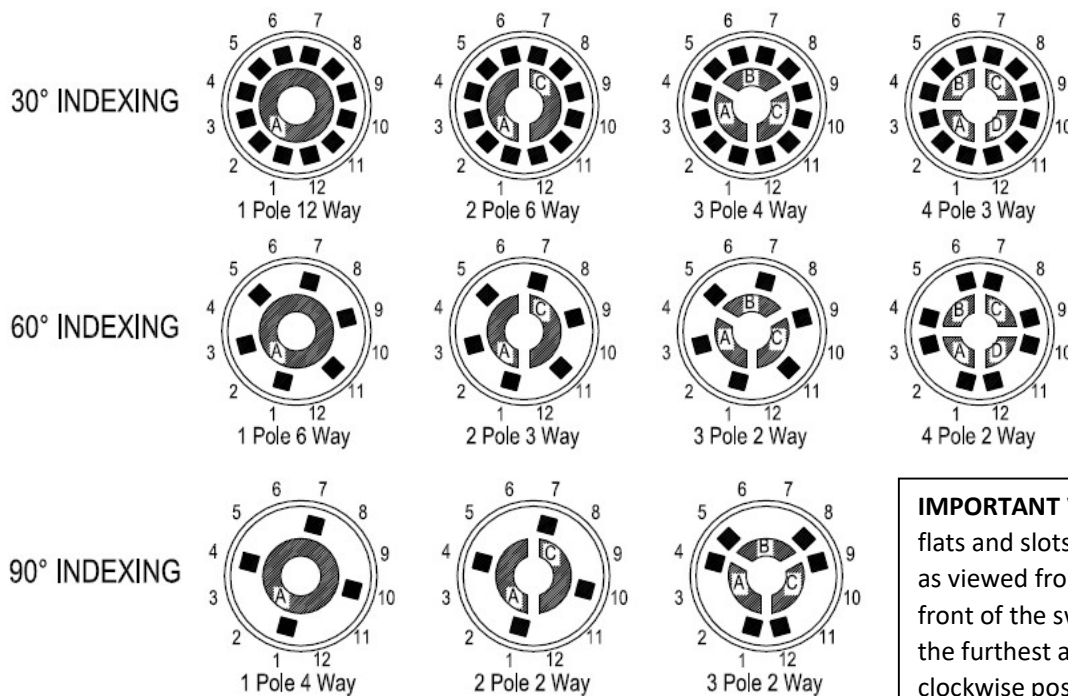
### ELECTRICAL & MECHANICAL SPECIFICATION

|                                   |                              |                                    |                            |
|-----------------------------------|------------------------------|------------------------------------|----------------------------|
| <b>Switch Rating:</b>             | 1A @ 24V dc                  | <b>Life:</b>                       | >10,000 Cycles             |
| <b>Proof Voltage:</b>             | 1,500V ac (Initial)          | <b>Operating Torque (nominal):</b> | Standard 8.6 ±1 cNm        |
| <b>Insulation Resistance:</b>     | >999 MΩ at 500V dc (Initial) |                                    | Light Action 3.5 ± 0.5 cNm |
| <b>Contact Resistance</b>         | <20 mΩ (Initial)             | <b>End Stop Torque (nominal):</b>  | 0.80 Nm                    |
| <b>Contact/Terminal Material:</b> | Brass CZ108 Ag Plated        | <b>Moulding Material:</b>          | Polyamide 6.6 G.F          |
| <b>Operating Temperature:</b>     | -30°C to +85°C               |                                    |                            |

### FEATURES

|                                              |                                                                                    |                                                                                      |
|----------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Single wafer switch                          | Shorting (make before break 30° indexing only) or non-shorting (break before make) | Dampened indexing and reduced shaft play gives smooth feel operation                 |
| Maximum 12 positions                         |                                                                                    |                                                                                      |
| Up to 4 poles per switch                     | Moulded stop or adjustable stops to restrict number of positions                   | Solder or PCB terminals<br>Gold flashed or gold plated terminals/ contacts available |
| Standard 30° indexing, 60° and 90° available | Continuous rotation also available                                                 |                                                                                      |
| Moulded 27.5mm diameter                      | Made in UK                                                                         | Spindles with special flats, slots or knurls                                         |
|                                              | UL-V0 rated material available                                                     | Rear drive versions                                                                  |
|                                              |                                                                                    | No bush versions                                                                     |





SPINDLE FLAT ANGLE - AVAILABLE IN 15° INCREMENTS

SCREWDRIVER SLOT - AVAILABLE IN 45° INCREMENTS



## ORDERING CODE FOR NON-STANDARD SWITCHES

| C K F                         |                        |            |              |                 |               |                    |            |                        |                   |
|-------------------------------|------------------------|------------|--------------|-----------------|---------------|--------------------|------------|------------------------|-------------------|
| SPINDLE LENGTH FMF IN FULL MM |                        |            |              |                 |               |                    |            |                        |                   |
| Index Angles & NO. OF POLES   | NO OF WAYS (POSITIONS) | MBB or BBM | Contact Type | Contact Plating | SPINDLE DIAM. | SPINDLE FLAT DEPTH | BUSH DIAM. | LENGTH OF SPINDLE FLAT | ANGLE OF FLAT (°) |
| A 30° 1Pole                   | A 2                    | A BBM      | Solder       | SILVER          | A 6mm         | Nil                | M10        | A 2 N 15               | A 0 N 195         |
| B                             | B 3                    | B MBB*     | Solder       |                 | B 6mm         | 5mm                | M10        | B 3 O No Flat          | B 15 O            |
| C                             | C 4                    | C BBM      | PCB          |                 | C 6.35mm      | Nil                | 9.52 mm    | C 4 P 16               | C 30 P 210        |
| D                             | D 5                    | D MBB*     | PCB          |                 | D 6.35mm      | 5.5mm              | 9.52 mm    | D 5 Q 17               | D 45 Q 225        |
| E 60° 1Pole                   | E 6                    | E BBM      | Solder       | GOLD PLATE      |               |                    |            | E 6 R 18               | E 60 R 240        |
| F                             | F 7                    | F MBB*     | Solder       |                 |               |                    |            | F 7 S 19               | F 75 S 255        |
| G                             | G 8                    | G BBM      | PCB          |                 |               |                    |            | G 8 T 20               | G 90 T 270        |
| H                             | H 9                    | H MBB*     | PCB          |                 |               |                    |            | H 9 U 21               | H 105 U 285       |
| I 90° 1Pole                   | I 10                   | I BBM      | Solder       | GOLD FLASH      |               |                    |            | I 10 V 22              | I 120 V 300       |
| J                             | J 11                   | J MBB*     | Solder       |                 |               |                    |            | J 11 W 23              | J 135 W 315       |
| K                             | K 12                   | K BBM      | PCB          |                 |               |                    |            | K 12 X 24              | K 150 X 330       |
| Z No Stop                     | L                      | L MBB*     | PCB          |                 |               |                    |            | L 13 Y 25              | L 165 Y 345       |
|                               |                        |            |              |                 |               |                    |            | M 14 Z Full            | M 180             |

\*30° INDEX ANGLE ONLY

PLEASE COMPLETE THE SPECIFICATION DRAWING IF YOUR DETAILS CANNOT BE FULLFILLED BY USING THE ORDERING CODE

## 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 32 TPI | 30mm                | 90°                   | 5.5mm                  |
| METRIC      | 6.00mm           | 50mm                              | M10 x 0.75    | No Flat             | -                     | -                      |

| CIRCUITRY AT 30° INDEXING | PLATING FINISH             | STANDARD METRIC |                     | STANDARD IMPERIAL |                     |
|---------------------------|----------------------------|-----------------|---------------------|-------------------|---------------------|
|                           |                            | Shorting (MBB)  | Non- Shorting (BBM) | Shorting (MBB)    | Non- Shorting (BBM) |
| <b>1 POLE 12 POSITION</b> | <b>STOP INCLUDED</b>       |                 |                     |                   |                     |
| Solder Tag                | Silver                     | CKF1039         | CKF1029             | CKF1034           | CKF1024             |
|                           | Gold Flash                 | CKF1508         | CKF1503             | CKF1516           | CKF1520             |
|                           | Gold Plate                 | CKF2444         | CKF1672             | CKF2458           | CKF2459             |
| Printed Circuit Board     | Silver                     | CKF1059         | CKF1049             | CKF1054           | CKF1044             |
|                           | Gold Flash                 | CKF1512         | CKF1506             | CKF1524           | CKF1528             |
|                           | Gold Plate                 | CKF1475         | CKF1312             | CKF2460           | CKF2461             |
| <b>1 POLE 12 POSITION</b> | <b>CONTINUOUS ROTATION</b> |                 |                     |                   |                     |
| Solder Tag                | Silver                     | CKF1038         | CKF1028             | CKF1033           | CKF1023             |
|                           | Gold Flash                 | CKF1533         | CKF1537             | CKF1541           | CKF1545             |
|                           | Gold Plate                 | CKF2445         | CKF2446             | CKF2462           | CKF2463             |
| Printed Circuit Board     | Silver                     | CKF1058         | CKF1048             | CKF1053           | CKF1043             |
|                           | Gold Flash                 | CKF1534         | CKF1538             | CKF1542           | CKF1546             |
|                           | Gold Plate                 | CKF2447         | CKF2448             | CKF2464           | CKF2465             |
| <b>2 POLE 6 POSITION</b>  | <b>STOP INCLUDED</b>       |                 |                     |                   |                     |
| Solder Tag                | Silver                     | CKF1040         | CKF1030             | CKF1035           | CKF1025             |
|                           | Gold Flash                 | CKF1509         | CKF1496             | CKF1517           | CKF1521             |
|                           | Gold Plate                 | CKF2449         | CKF1726             | CKF2466           | CKF2467             |
| Printed Circuit Board     | Silver                     | CKF1060         | CKF1050             | CKF1055           | CKF1045             |
|                           | Gold Flash                 | CKF1513         | CKF1473             | CKF1525           | CKF1529             |
|                           | Gold Plate                 | CKF2450         | CKF1850             | CKF2468           | CKF2469             |
| <b>2 POLE 6 POSITION</b>  | <b>CONTINUOUS ROTATION</b> |                 |                     |                   |                     |
| Solder Tag                | Silver                     | CKF1114         | CKF1118             | CKF1120           | CKF1121             |
|                           | Gold Flash                 | CKF1535         | CKF1539             | CKF1543           | CKF1547             |
|                           | Gold Plate                 | CKF2451         | CKF2452             | CKF2470           | CKF2471             |
| Printed Circuit Board     | Silver                     | CKF1119         | CKF1113             | CKF1122           | CKF1089             |
|                           | Gold Flash                 | CKF1536         | CKF1540             | CKF1544           | CKF1548             |
|                           | Gold Plate                 | CKF2453         | CKF2454             | CKF2472           | CKF2473             |
| <b>3 POLE 4 POSITION</b>  | <b>STOP INCLUDED</b>       |                 |                     |                   |                     |
| Solder Tag                | Silver                     | CKF1041         | CKF1031             | CKF1036           | CKF1026             |
|                           | Gold Flash                 | CKF1510         | CKF1504             | CKF1518           | CKF1522             |
|                           | Gold Plate                 | CKF2455         | CKF1577             | CKF2474           | CKF2475             |
| Printed Circuit Board     | Silver                     | CKF1061         | CKF1051             | CKF1056           | CKF1046             |
|                           | Gold Flash                 | CKF1514         | CKF1500             | CKF1526           | CKF1530             |
|                           | Gold Plate                 | CKF2456         | CKF1952             | CKF2476           | CKF2477             |
| <b>3 POLE 4 POSITION</b>  | <b>CONTINUOUS ROTATION</b> |                 |                     |                   |                     |
| Solder Tag                | Silver                     | CKF1042         | CKF1032             | CKF1037           | CKF1027             |
|                           | Gold Flash                 | CKF1511         | CKF1505             | CKF1519           | CKF1523             |
|                           | Gold Plate                 | CKF1673         | CKF1822             | CKF2478           | CKF2479             |
| Printed Circuit Board     | Silver                     | CKF1062         | CKF1052             | CKF1057           | CKF1047             |
|                           | Gold Flash                 | CKF1515         | CKF1507             | CKF1527           | CKF1531             |
|                           | Gold Plate                 | CKF2457         | CKF1953             | CKF2480           | CKF2481             |

## SPECIFICATION SHEET

**CUSTOMER TO COMPLETE OR DELETE AS REQUIRED**

|          | A     | B | C             |
|----------|-------|---|---------------|
| IMPERIAL | 06.35 |   | 09.52 x 32TPI |
| METRIC   | 06.00 |   | M10 x 0.75    |

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



SWITCH MOUNTING FACE

21.50

14.50

16.10

2.00

3.00

4.00

5.00

6.00

7.00

8.00

9.00

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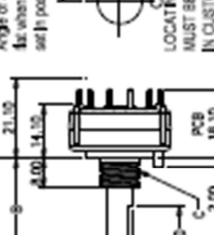
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99.00

100.00

**LOCATING LUG (IF REQUESTED) MUST BE BLIND HOLE IN CUSTOMER PANEL**



Angle of Slot for when switch is set in position 1

**INDEXING**

|        | INDEXING | INDEXING | INDEXING |
|--------|----------|----------|----------|
| 1 POLE |          |          |          |
| 2 POLE |          |          |          |
| 3 POLE |          |          |          |
| 4 POLE |          |          |          |

**IMPORTANT! WAFERS FLATS & SLOTS VIEWED FROM THE FRONT OF SWITCH IN EXTREME ANTICLOCKWISE POSITION (POSITION 1)**

**SPECIAL REQUIREMENTS**

**OPTIONS** Steps are adjustable 2-12 positions. Continuous rotation (No Steps) available. Make before break (MKB) or Break before Make (BBM) rotors available. Solder Tag (SOL) or PCB pins (PCB) - indicate on wafer.

**CUSTOMER:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**CUSTOMER REFERENCE NUMBER:** \_\_\_\_\_

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