LORLIN

ROTARY SWITCH

CKF

CKF IP65 ROTARY SWITCH

ELECTRICAL & MECHANICAL SPECIFICATION

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

FEATURES

Single wafer switch

Maximum 12 positions

Up to 4 poles per switch

Standard 30° indexing, 60° and 90° available

Moulded 27.5mm diameter

Shorting (make before break 30° indexing only) or non-shorting (break before make)

Moulded stop or adjustable stops to restrict number of positions

Continuous rotation also available

Made in UK

UL-V0 rated material available

Dampened indexing and reduced shaft play gives smooth feel operation

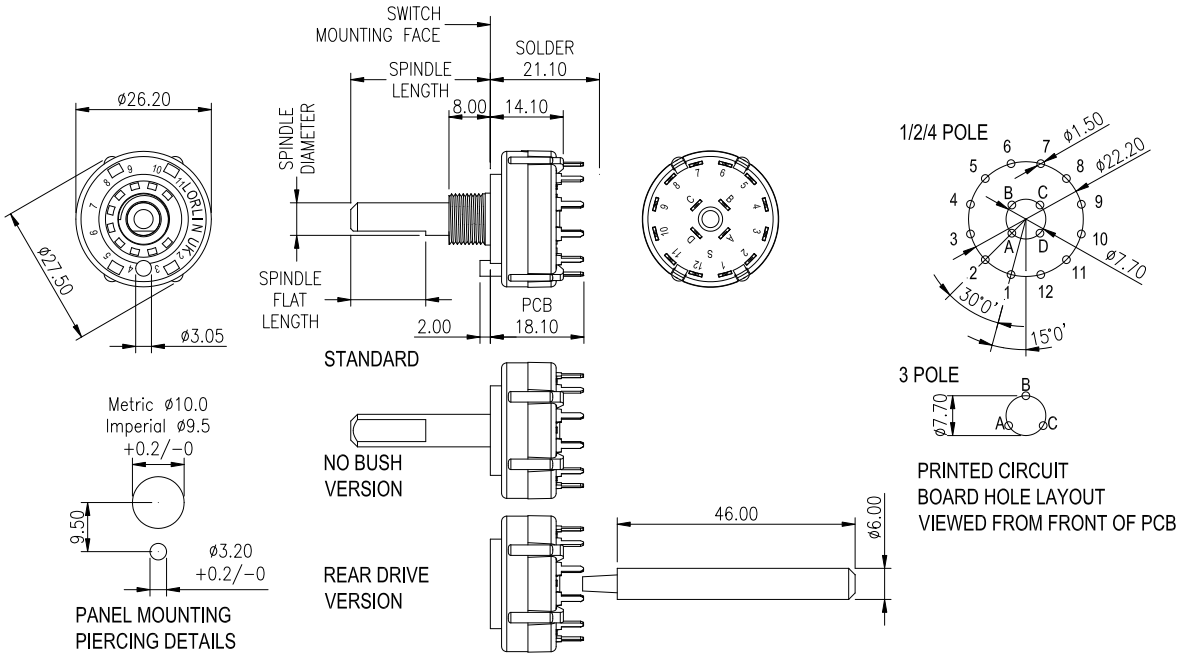
Solder or PCB terminals

Gold flashed or gold plated

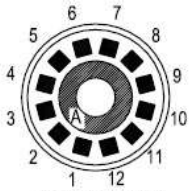
Spindles with special flats, slots or knurls

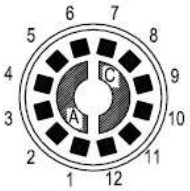
Rear drive versions

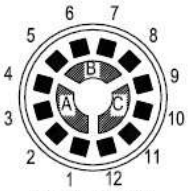
No bush versions

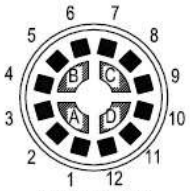


30° INDEXING

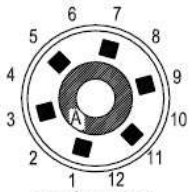


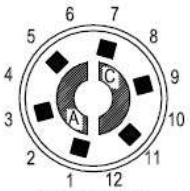


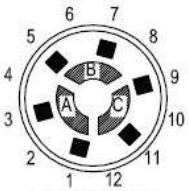


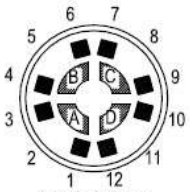


60° INDEXING

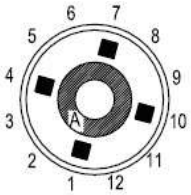


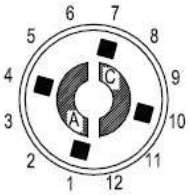


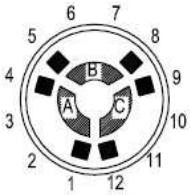




90° INDEXING







IMPORTANT Wafers flats and slots shown as viewed from the front of the switch in the furthest anti-clockwise position

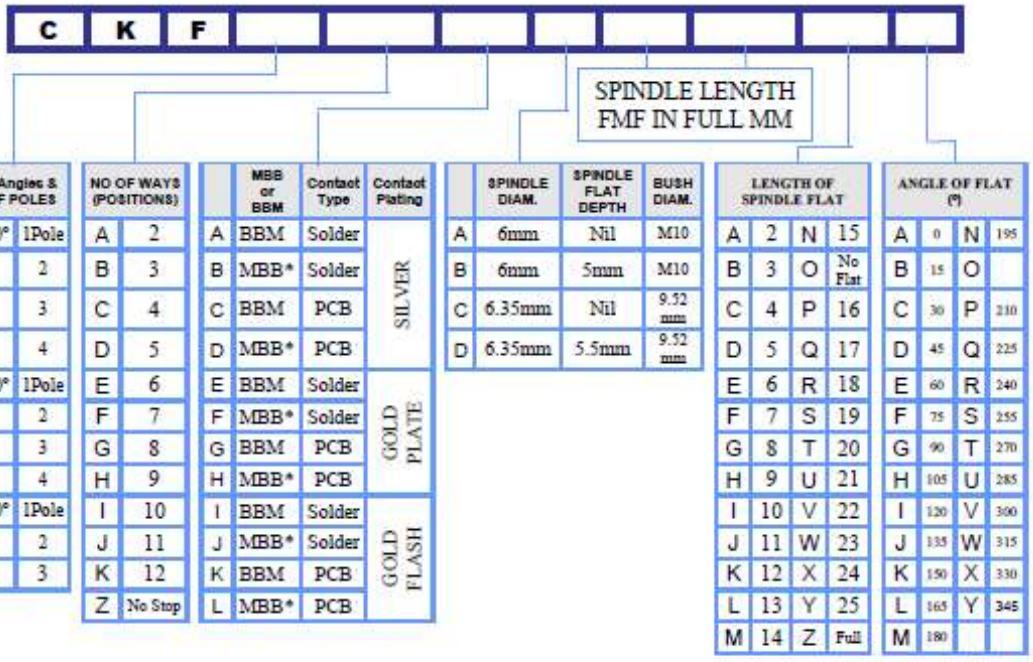
SPINDLE FLAT ANGLE - AVAILABLE IN 15° INCREMENTS



SCREWDRIVER SLOT - AVAILABLE IN 45° INCREMENTS



ORDERING CODE FOR NON-STANDARD SWITCHES



Index Angles & NO. OF POLES		
A	30°	1Pole
B		2
C		3
D		4
E	60°	1Pole
F		2
G		3
H		4
I	90°	1Pole
J		2
K		3

NO OF WAYS (POSITIONS)	
A	2
B	3
C	4
D	5
E	6
F	7
G	8
H	9
I	10
J	11
K	12
Z	No Stop

	MBB or BBM	Contact Type	Contact Plating
A	BBM	Solder	SILVER
B	MBB*	Solder	SILVER
C	BBM	PCB	SILVER
D	MBB*	PCB	SILVER
E	BBM	Solder	GOLD PLATE
F	MBB*	Solder	GOLD PLATE
G	BBM	PCB	GOLD PLATE
H	MBB*	PCB	GOLD PLATE
I	BBM	Solder	GOLD FLASH
J	MBB*	Solder	GOLD FLASH
K	BBM	PCB	GOLD FLASH
L	MBB*	PCB	GOLD FLASH

	SPINDLE DIAM.	SPINDLE FLAT DEPTH	BUSH DIAM.
A	6mm	Nil	M10
B	6mm	5mm	M10
C	6.35mm	Nil	9.52 mm
D	6.35mm	5.5mm	9.52 mm

LENGTH OF SPINDLE FLAT			
A	2	N	15
B	3	O	No Flat
C	4	P	16
D	5	Q	17
E	6	R	18
F	7	S	19
G	8	T	20
H	9	U	21
I	10	V	22
J	11	W	23
K	12	X	24
L	13	Y	25
M	14	Z	Full

ANGLE OF FLAT (°)			
A	0	N	195
B	15	O	
C	30	P	210
D	45	Q	225
E	60	R	240
F	75	S	255
G	90	T	270
H	105	U	285
I	120	V	300
J	135	W	315
K	150	X	330
L	165	Y	345
M	180		

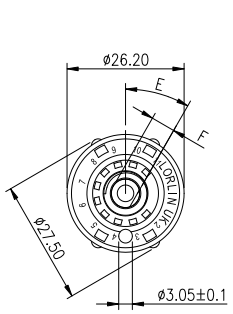
*30° INDEX ANGLE ONLY
PLEASE COMPLETE THE SPECIFICATION DRAWING IF YOUR DETAILS CANNOT BE FULLFILLED BY USING THE ORDERING CODE

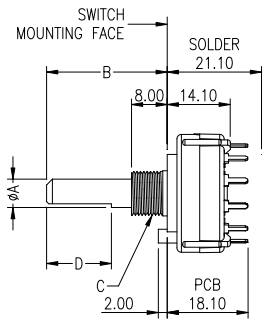
STANDARD PART NUMBERS

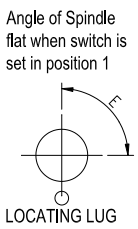
BASIC TYPES	SPINDLE DIAMETER	SPINDLE LENGTH FROM MOUNTING FACE	8mm LONG BUSH	SPINDLE FLAT LENGTH	ANGLE OF SPINDLE FLAT	SPINDLE FLAT THICKNESS
IMPERIAL	6.35mm	38mm	9.52 x 32 TPI	30mm	90°	5.5mm
METRIC	6.00mm	50mm	M10 x 0.75	No Flat	-	-

CIRCUITRY AT 30° INDEXING	PLATING FINISH	STANDARD METRIC		STANDARD IMPERIAL	
		Shorting (MBB)	Non- Shorting (BBM)	Shorting (MBB)	Non- Shorting (BBM)
1 POLE 12 POSITION		**STOP INCLUDED**			
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
1 POLE 12 POSITION		**CONTINUOUS ROTATION**			
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
2 POLE 6 POSITION		**STOP INCLUDED**			
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
2 POLE 6 POSITION		**CONTINUOUS ROTATION**			
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
3 POLE 4 POSITION		**STOP INCLUDED**			
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
4 POLE 3 POSITION		**STOP INCLUDED**			
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

CUSTOMER TO COMPLETE OR DELETE AS REQUIRED



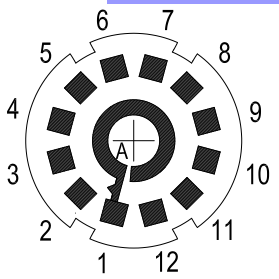




	A	B	C
IMPERIAL	Ø6.35		Ø9.52 x 32TPI
METRIC	Ø6.00		M10 x 0.75

	D	E	F
IMPERIAL			
METRIC			

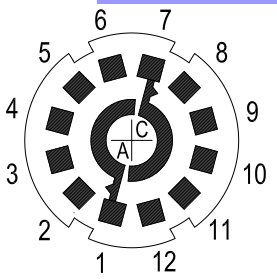
INDEXING



1 POLE

POSITIONS			
MBB	BBM	SOL	PCB

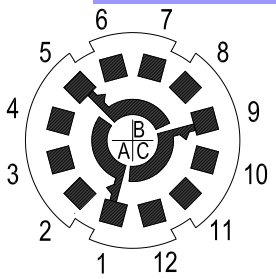
INDEXING



2 POLE

POSITIONS			
MBB	BBM	SOL	PCB

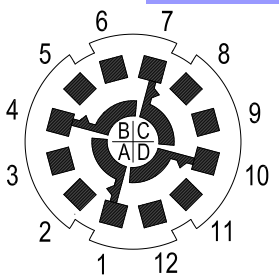
INDEXING



3 POLE

POSITIONS			
MBB	BBM	SOL	PCB

INDEXING



4 POLE

POSITIONS			
MBB	BBM	SOL	PCB

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

SPECIAL REQUIREMENTS

OPTIONS Stops are adjustable 2-12 positions. Continuous rotation (No Stops) available. Make before break (MBB) or Break before Make (BBM) rotors available. Solder Tag (SOL) or PCB pin (PCB) – indicate on wafer.

CUSTOMER:	DATE:	CUSTOMER REFERENCE NUMBER: