IP67 CKS SEALED ROTARY SWITCH

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	150mA @ 250V ac/dc 1A @ 24V dc
Life:	>10,000 Cycles
Operating Temperature:	-30ºC to +85 ºC
Proof Voltage:	1,500Vac (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20 mΩ (initial)
Operating Torque (nominal)	Standard 10.5 ± 1 N cm Light Action 5.5 ± 0.5 N cm
End Stop Torque (nominal):	0.80 Nm
Moulding Material:	Polyamide 6.6 G.F. V0 RATED
Contact/Terminal Material:	Brass CZ108 Ag Plated

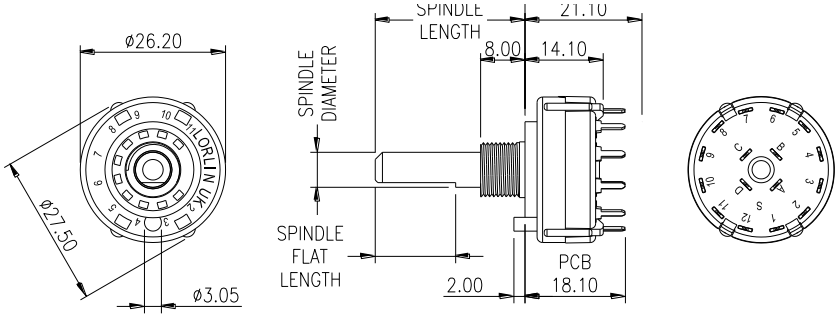
RoHS COMPLIANT

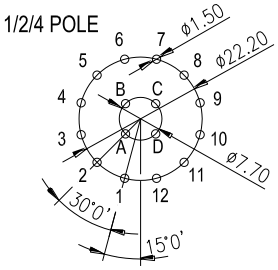


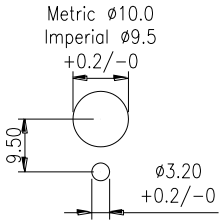
GENERAL FEATURES & OPTIONS

- Made in UK
- Cost effective single wafer switch
- Moulded 27.5mm diameter
- Standard 30º indexing
- Solder or Printed Circuit Board Terminals
- Up to 4 poles per switch
- Maximum 12 positions
- Moulded in UL94 V0 material.
- Optional reinforcement ring.
- Shorting (make before break 30º indexing only) or non shorting (break before make) contacts.
- Special options: 60ºor 90º indexing, continuous rotation. Fixed stop, gold flash or gold plated contacts, and spindles with special flats.
- CKS same form, fit & function to the CK range
- Dampened indexing & reduced shaft play gives smooth feel.
- Front panel sealed to IP66 – protected against powerful water jets
- Front panel sealed to IP67 – protected against the effects of temporary immersion in 1 meter of water. (ancillaries required)

CKS ROTARY SWITCH SPECIFICATION SHEET







CUSTOMER PANEL (MIN 3mm) MOUNTING DETAILS. LUG MUST BE BLIND HOLE IN PANEL

PANEL SEAL ACHIEVED WITH DIA 9.0 x 2.0 SECTION O RING SUPPLIED WITH HARDWARE. MINIMAL GREASE SHOULD BE APPLIED TO SURFACES TO ENSURE GOOD SEAL

PRINTED CIRCUIT BOARD HOLE LAYOUT VIEWED FROM FRONT OF PCB

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	---	---

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STANDARD PART NUMBERS

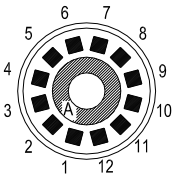
BASIC TYPES	SPINDLE DIAMETER	SPINDLE LENGTH FROM MOUNTING FACE	8mm LONG BUSH	SPINDLE FLAT LENGTH	ANGLE OF SPINDLE FLAT	SPINDLE FLAT THICKNESS
IMPERIAL	6.35mm	38mm	9.52 x 32TPI	30mm	90º	5.5mm
METRIC	6.00mm	50mm	M10 x 0.75	No Flat	---	---

CIRCUITRY AT 30º 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	CKS1039	CKS1029	CKS1034	CKS1024
	Gold Flash	CKS1508	CKS1503	CKS1516	CKS1520
	Gold Plate	CKS2444	CKS1672	CKS2458	CKS2459
Printed Circuit	Silver	CKS1059	CKS1049	CKS1054	CKS1044
	Gold Flash	CKS1512	CKS1506	CKS1524	CKS1528
	Gold Plate	CKS1475	CKS1312	CKS2460	CKS2461
1 POLE 12 POSITION		NO STOP CONTINUOUS ROTATION			
Solder Tag	Silver	CKS1038	CKS1028	CKS1033	CKS1023
	Gold Flash	CKS1533	CKS1537	CKS1541	CKS1545
	Gold Plate	CKS2445	CKS2446	CKS2462	CKS2463
Printed Circuit	Silver	CKS1058	CKS1048	CKS1053	CKS1043
	Gold Flash	CKS1534	CKS1538	CKS1542	CKS1546
	Gold Plate	CKS2447	CKS2448	CKS2464	CKS2465
2 POLE 6 POSITION		STOP INCLUDED			
Solder Tag	Silver	CKS1040	CKS1030	CKS1035	CKS1025
	Gold Flash	CKS1509	CKS1496	CKS1517	CKS1521
	Gold Plate	CKS2449	CKS1726	CKS2466	CKS2467
Printed Circuit	Silver	CKS1060	CKS1050	CKS1055	CKS1045
	Gold Flash	CKS1513	CKS1473	CKS1525	CKS1529
	Gold Plate	CKS2450	CKS1850	CKS2468	CKS2469
2 POLE 6 POSITION		NO STOP CONTINUOUS ROTATION			
Solder Tag	Silver	CKS1114	CKS1118	CKS1120	CKS1121
	Gold Flash	CKS1535	CKS1539	CKS1543	CKS1547
	Gold Plate	CKS2451	CKS2452	CKS2470	CKS2471
Printed Circuit	Silver	CKS1119	CKS1113	CKS1122	CKS1089
	Gold Flash	CKS1536	CKS1540	CKS1544	CKS1548
	Gold Plate	CKS2453	CKS2454	CKS2472	CKS2473
3 POLE 4 POSITION		STOP INCLUDED			
Solder Tag	Silver	CKS1041	CKS1031	CKS1036	CKS1026
	Gold Flash	CKS1510	CKS1504	CKS1518	CKS1522
	Gold Plate	CKS2455	CKS1577	CKS2474	CKS2475
Printed Circuit	Silver	CKS1061	CKS1051	CKS1056	CKS1046
	Gold Flash	CKS1514	CKS1500	CKS1526	CKS1530
	Gold Plate	CKS2456	CKS1952	CKS2476	CKS2477
4 POLE 3 POSITION		STOP INCLUDED			
Solder Tag	Silver	CKS1042	CKS1032	CKS1037	CKS1027
	Gold Flash	CKS1511	CKS1505	CKS1519	CKS1523
	Gold Plate	CKS1673	CKS1822	CKS2478	CKS2479
Printed Circuit	Silver	CKS1062	CKS1052	CKS1057	CKS1047
	Gold Flash	CKS1515	CKS1507	CKS1527	CKS1531
	Gold Plate	CKS2457	CKS1953	CKS2480	CKS2481

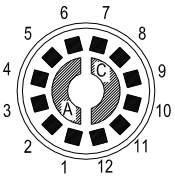
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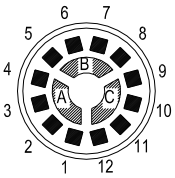
30° INDEXING



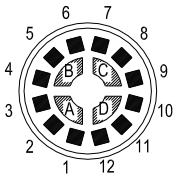
1 Pole 12 Way



2 Pole 6 Way

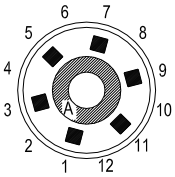


3 Pole 4 Way

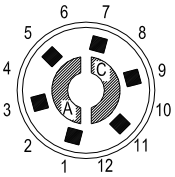


4 Pole 3 Way

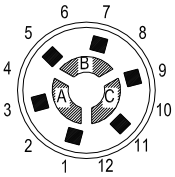
60° INDEXING



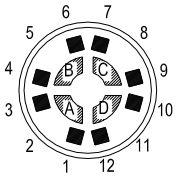
1 Pole 6 Way



2 Pole 3 Way

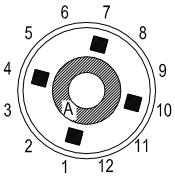


3 Pole 2 Way

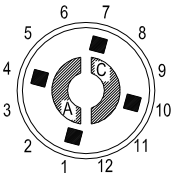


4 Pole 2 Way

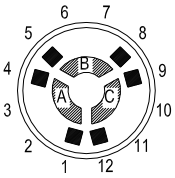
90° INDEXING



1 Pole 4 Way



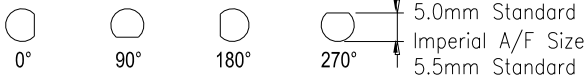
2 Pole 2 Way



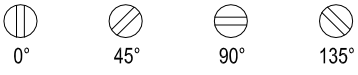
3 Pole 2 Way

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

SPINDLE FLAT ANGLE - AVAILABLE IN 15° INCREMENTS



SCREWDRIVER SLOT - AVAILABLE IN 45° INCREMENTS



ORDERING CODE FOR NON-STANDARD SWITCHES

EXISTING CK PARTS MAY BE ORDERED AS SEALED TYPE BY CHANGING PART NUMBER TO START WITH CKS

C	K	S								

SPINDLE LENGTH FMF IN FULL MM

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	
C	BBM	PCB	
D	MBB	PCB	
E	BBM	Solder	GOLD PLATE
F	MBB	Solder	
G	BBM	PCB	
H	MBB	PCB	
I	BBM	Solder	GOLD FLASH
J	MBB	Solder	
K	BBM	PCB	
L	MBB	PCB	

	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

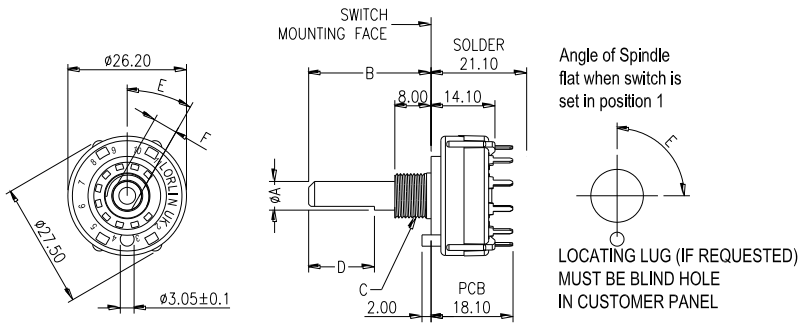
ANGLE OF FLAT (°)			
A	0	N	195
B	15	O	
C	30	P	210
D	45	Q	225
E	60	R	240
F	75	S	255
G	90	T	270
H	105	U	285
I	120	V	300
J	135	W	315
K	150	X	330
L	165	Y	345
M	180		

PLEASE COMPLETE THE SPECIFICATION DRAWING IF YOUR DETAILS CANNOT BE FULLFILLED BY USING THE ORDERING CODE & CONFIRM WITH LORLIN SALES BEFORE ORDERING. TOOLING CHARGES CAN APPLY FOR SPINDLES THAT DO NOT HAVE FLATS THAT RUN THE FULL SPINDLE LENGTH

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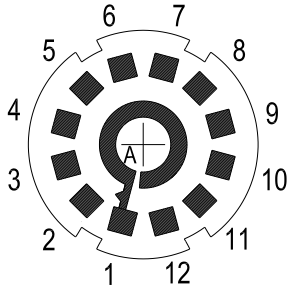
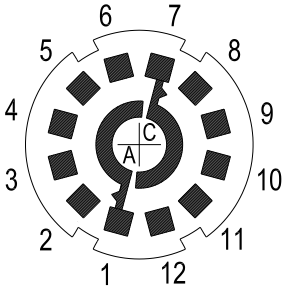
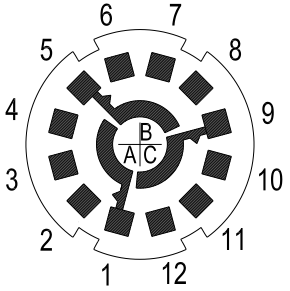
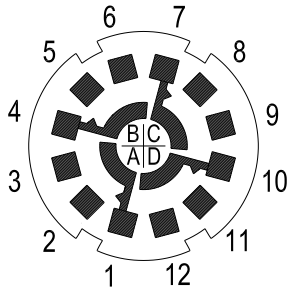
SPECIFICATION SHEET



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				INDEXING				INDEXING				INDEXING			
																
	1 POLE				2 POLE				3 POLE				4 POLE			
POSITIONS					POSITIONS				POSITIONS				POSITIONS			
MBB	BBM	SOL	PCB	MBB	BBM	SOL	PCB	MBB	BBM	SOL	PCB	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:

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