CK ROTARY SWITCH

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

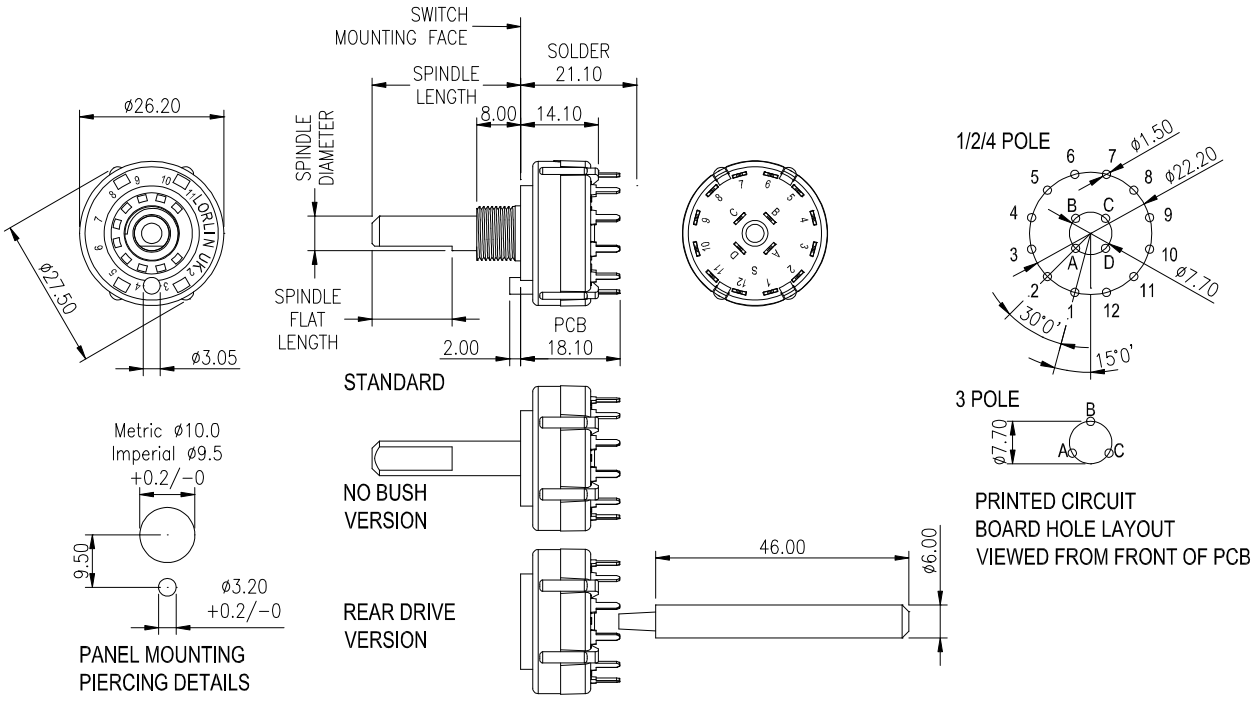
RoHS COMPLIANT

Switch Rating:	150mA@250V ac/dc resistive load
Currrent Carrying Capacity	5A non switching
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 8.6 ± 1 cNm Light Action 3.5 ± 0.5 cNm
End Stop Torque (nominal):	0.80 Nm
Moulding Material:	Polyamide 6.6 G.F.
Contact/Terminal Material:	Brass CZ108 Ag Plated

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
- Shorting (make before break 30º indexing only) or non shorting (break before make) contacts.
- Adjustable stop to restrict number of positions
- Special options: 60ºor 90º indexing, continuous rotation,
- Optional reinforcement ring.
- Fixed stop, UL-V0 rated material, gold flashed or gold plated contacts, and spindles with special flats, slots or knurls.
- No Bush versions available
- Rear Drive versions available
- Sealed PCB Termination available

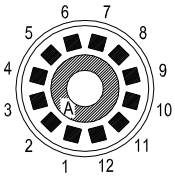
CK ROTARY SWITCH SPECIFICATION SHEET

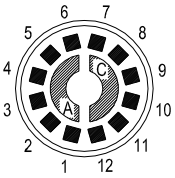


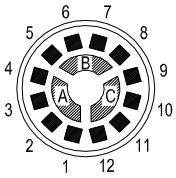
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk | www.lorlin.co.uk

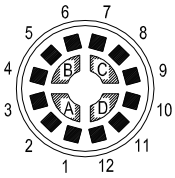
CK ROTARY SWITCH

30° INDEXING

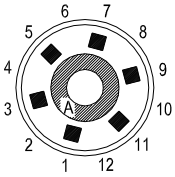


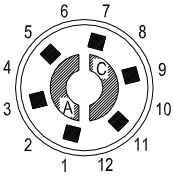


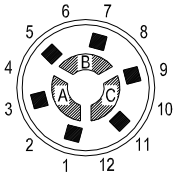


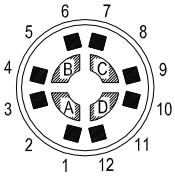


60° INDEXING

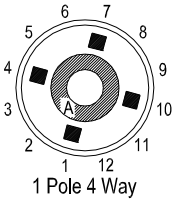


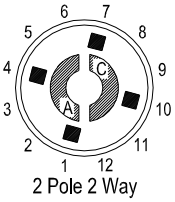


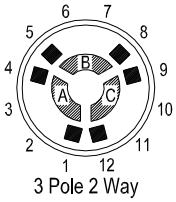




90° INDEXING

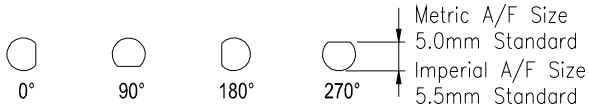




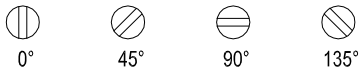


IMPORTANT WAFERS FLATS & SLOTS VIEWED FROM THE FRONT OF SWITCH IN EXTREME ANTICLOCKWISE POSITION (POSITION 1)

SPINDLE FLAT ANGLE - AVAILABLE IN 15° INCREMENTS



SCREWDRIVER SLOT - AVAILABLE IN 45° INCREMENTS



ORDERING CODE FOR NON-STANDARD SWITCHES

C	K								

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 (º)			
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 REQUIREMENTS CANNOT BE FULLFILLED BY USING THE ORDERING CODE

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

STANDARD PART NUMBERS

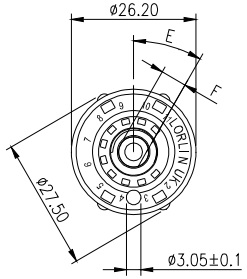
BASIC TYPES	SPINDLE DIAMETER	SPINDLE LENGTH FROM MOUNTING FACE	8mm LONG BUSH	SPINDLE FLAT LENGTH	ANGLE OF SPINDLE FLAT	SPINDLE FLAT THICKNESS
IMPERIAL	6.35mm	38mm	9.52 x 32TPI	30mm	90º	5.5mm
METRIC	6.00mm	50mm	M10 x 0.75	No Flat	---	---

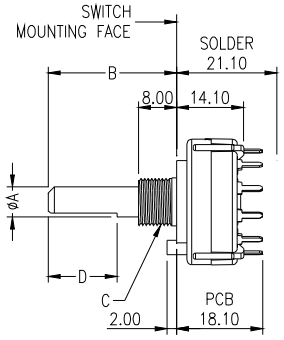
CIRCUITRY AT 30º INDEXING	PLATING FINISH	STANDARD METRIC		STANDARD IMPERIAL	
		Shorting (MBB)	Non-Shorting (BBM)	Shorting (MBB)	Non-Shorting (BBM)
1 POLE 12 POSITION		STOP INCLUDED			
Solder Tag	Silver	CK1039	CK1029	CK1034	CK1024
	Gold Flash	CK1508	CK1503	CK1516	CK1520
	Gold Plate	CK2444	CK1672	CK2458	CK2459
Printed Circuit	Silver	CK1059	CK1049	CK1054	CK1044
	Gold Flash	CK1512	CK1506	CK1524	CK1528
	Gold Plate	CK1475	CK1312	CK2460	CK2461
1 POLE 12 POSITION		NO STOP CONTINUOUS ROTATION			
Solder Tag	Silver	CK1038	CK1028	CK1033	CK1023
	Gold Flash	CK1533	CK1537	CK1541	CK1545
	Gold Plate	CK2445	CK2446	CK2462	CK2463
Printed Circuit	Silver	CK1058	CK1048	CK1053	CK1043
	Gold Flash	CK1534	CK1538	CK1542	CK1546
	Gold Plate	CK2447	CK2448	CK2464	CK2465
2 POLE 6 POSITION		STOP INCLUDED			
Solder Tag	Silver	CK1040	CK1030	CK1035	CK1025
	Gold Flash	CK1509	CK1496	CK1517	CK1521
	Gold Plate	CK2449	CK1726	CK2466	CK2467
Printed Circuit	Silver	CK1060	CK1050	CK1055	CK1045
	Gold Flash	CK1513	CK1473	CK1525	CK1529
	Gold Plate	CK2450	CK1850	CK2468	CK2469
2 POLE 6 POSITION		NO STOP CONTINUOUS ROTATION			
Solder Tag	Silver	CK1114	CK1118	CK1120	CK1121
	Gold Flash	CK1535	CK1539	CK1543	CK1547
	Gold Plate	CK2451	CK2452	CK2470	CK2471
Printed Circuit	Silver	CK1119	CK1113	CK1122	CK1089
	Gold Flash	CK1536	CK1540	CK1544	CK1548
	Gold Plate	CK2453	CK2454	CK2472	CK2473
3 POLE 4 POSITION		STOP INCLUDED			
Solder Tag	Silver	CK1041	CK1031	CK1036	CK1026
	Gold Flash	CK1510	CK1504	CK1518	CK1522
	Gold Plate	CK2455	CK1577	CK2474	CK2475
Printed Circuit	Silver	CK1061	CK1051	CK1056	CK1046
	Gold Flash	CK1514	CK1500	CK1526	CK1530
	Gold Plate	CK2456	CK1952	CK2476	CK2477
4 POLE 3 POSITION		STOP INCLUDED			
Solder Tag	Silver	CK1042	CK1032	CK1037	CK1027
	Gold Flash	CK1511	CK1505	CK1519	CK1523
	Gold Plate	CK1673	CK1822	CK2478	CK2479
Printed Circuit	Silver	CK1062	CK1052	CK1057	CK1047
	Gold Flash	CK1515	CK1507	CK1527	CK1531
	Gold Plate	CK2457	CK1953	CK2480	CK2481

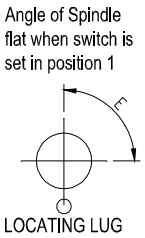
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk | www.lorlin.co.uk

CK ROTARY SWITCH

SPECIFICATION SHEET





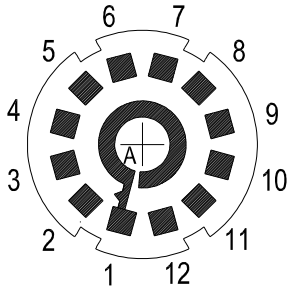


CUSTOMER TO COMPLETE OR DELETE AS REQUIRED

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

	D	E	F
IMPERIAL			
METRIC			

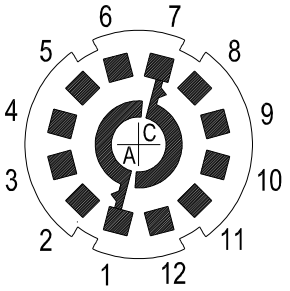
INDEXING



1 POLE

POSITIONS			
MBB	BBM	SOL	PCB

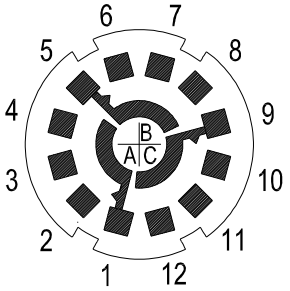
INDEXING



2 POLE

POSITIONS			
MBB	BBM	SOL	PCB

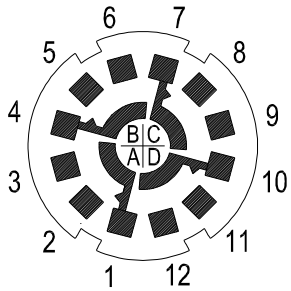
INDEXING



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:

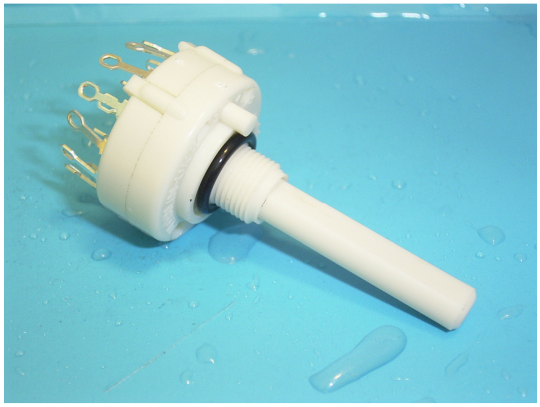
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk | www.lorlin.co.uk

IP67 CKS SEALED ROTARY SWITCH

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	150mA@250V ac/dc resistive load 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

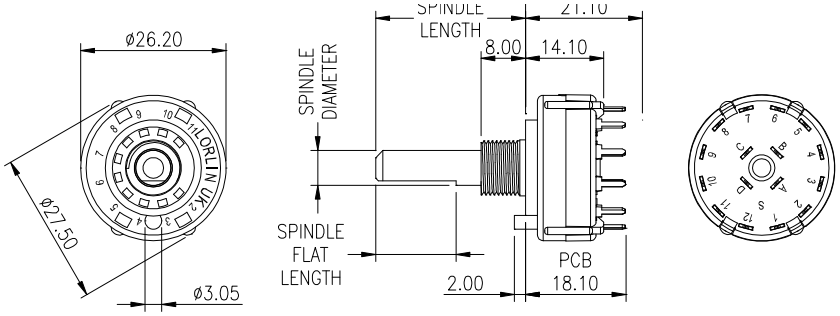
RoHS COMPLIANT

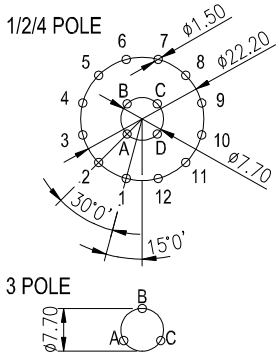


GENERAL FEATURES & OPTIONS

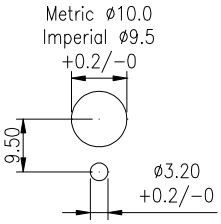
- Made in UK
- Cost effective single wafer switch
- Moulded 27.5mm diameter
- Standard 30º indexing
- Solder or Printed Circuit Board Terminals
- Up to 4 poles per switch
- Maximum 12 positions
- Moulded in UL94 V0 material.
- Optional reinforcement ring.
- Shorting (make before break 30º indexing only) 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





PRINTED CIRCUIT BOARD HOLE LAYOUT VIEWED FROM FRONT OF PCB



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

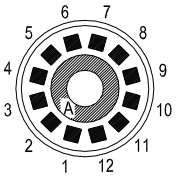
PANEL SEAL ACHIEVED WITH DIA 9.0 x 2.0 SECTION O RING SUPPLIED WITH HARDWARE. MINIMAL GREASE SHOULD BE APPLIED TO SURFACES TO ENSURE GOOD SEAL

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	---	---

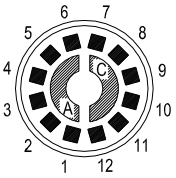
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk / www.lorlin.co.uk

CKS ROTARY SWITCH

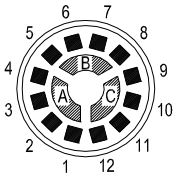
30° INDEXING



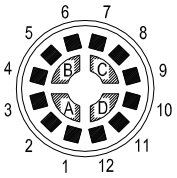
1 Pole 12 Way



2 Pole 6 Way

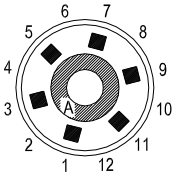


3 Pole 4 Way

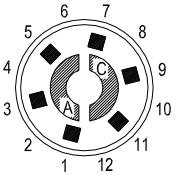


4 Pole 3 Way

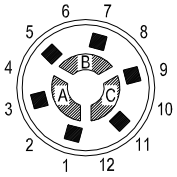
60° INDEXING



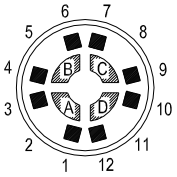
1 Pole 6 Way



2 Pole 3 Way

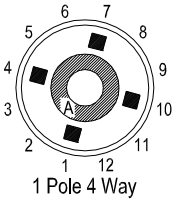


3 Pole 2 Way

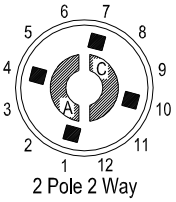


4 Pole 2 Way

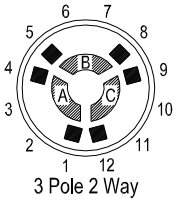
90° INDEXING



1 Pole 4 Way



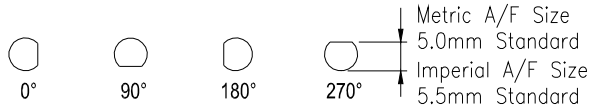
2 Pole 2 Way



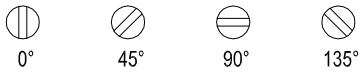
3 Pole 2 Way

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

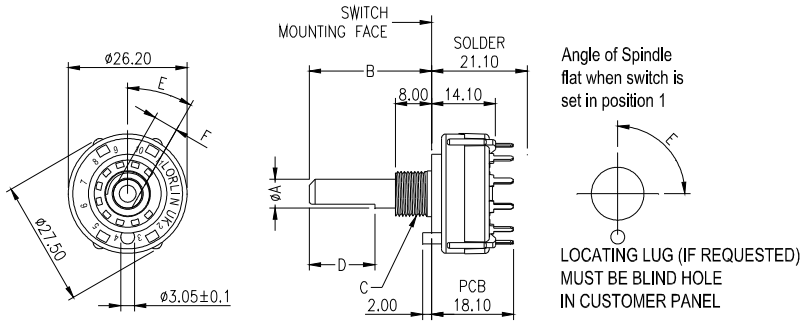
ANGLE OF FLAT (º)			
A	0	N	195
B	15	O	
C	30	P	210
D	45	Q	225
E	60	R	240
F	75	S	255
G	90	T	270
H	105	U	285
I	120	V	300
J	135	W	315
K	150	X	330
L	165	Y	345
M	180		

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

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

CKS ROTARY SWITCH

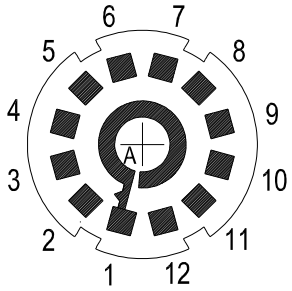
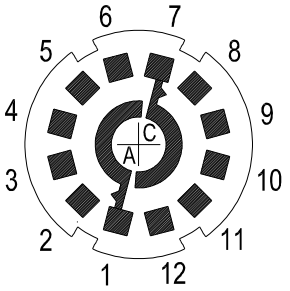
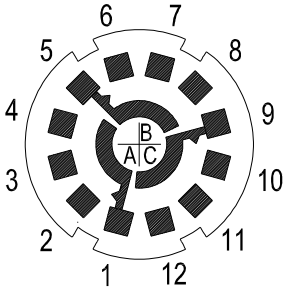
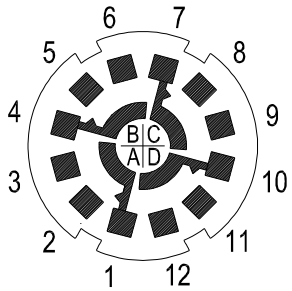
SPECIFICATION SHEET



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:

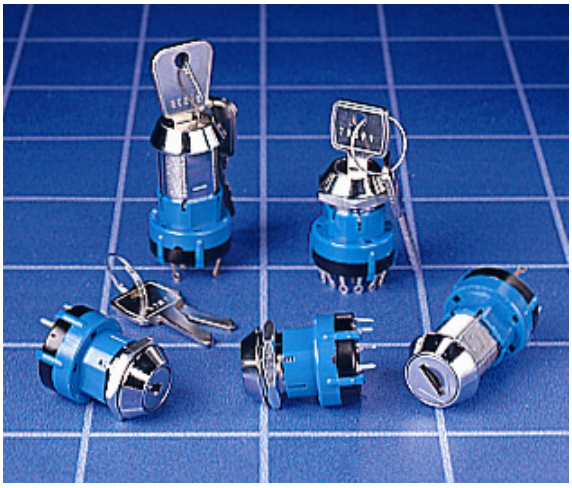
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk / www.lorlin.co.uk

CK LOCK SWITCHES

RoHS COMPLIANT

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	150mA @ 250V ac/dc resistive load
Life:	>10,000 Cycles
Operating Temperature:	-30ºC to +85 ºC
Proof Voltage:	1,500Vac (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20mΩ (initial)
Housing Material:	Polycarbonate
Wafer Material:	Polyamide 6.6 G.F. V0 Rated
Contact/Terminal Material:	Brass CZ108 Ag Plated
Lock Housing:	Zinc Alloy Bright Cr Plated
Keys:	Mild Steel Ni plated



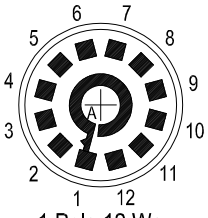
GENERAL FEATURES

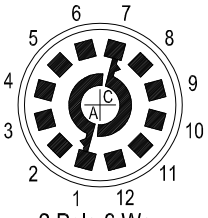
- Made in UK.
- Moulded Single Wafer Lock switch.
- Two part construction. The lock is inserted into the panel from the front. The CK module either bracketed or snap-on, from the rear of the panel.
- Switch indexed 30º, 60º or 90º.
- All contacts are non-shorting (BBM).
- Solder or printed circuit terminals.
- Keys removable at 60º or 90º angles.
- Two keys per lock. Additional keys to order.
- Keys to pass (common combination) or differ (different combinations)

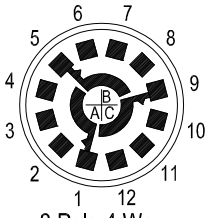
CK LOCK SWITCH MODULE TERMINAL LAYOUTS

(VIEWED FROM THE KEY) POSITION1

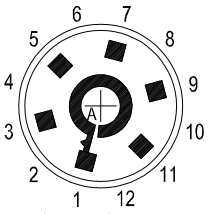
30° INDEXING

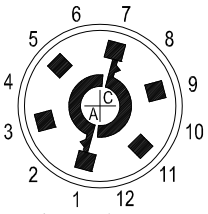


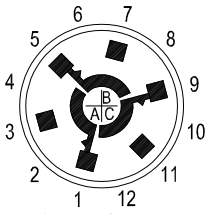




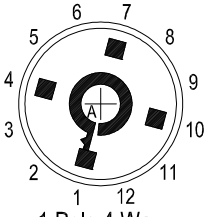
60° INDEXING

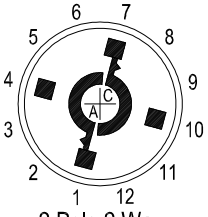


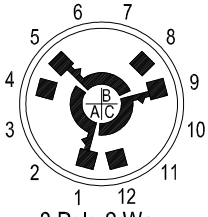




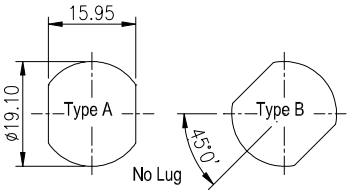
90° INDEXING



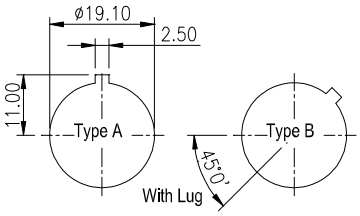




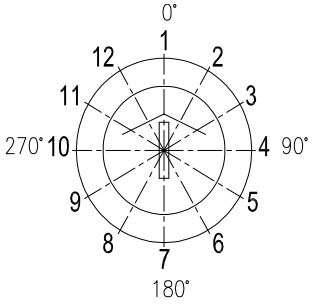
MOUNTING DETAILS CK LOCK SWITCHES



ALTERNATE MOUNTING DETAILS FOR BRACKETED CKL, CKIS LOCK SWITCHES



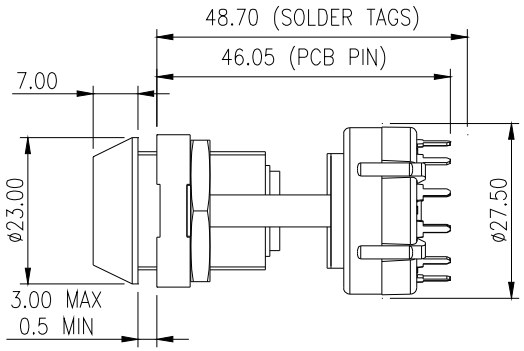
LOCK MOVEMENT



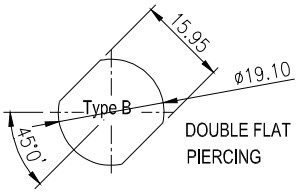
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk www.lorlin.co.uk

CK LOCK SWITCHES

CKL Lock switch with bracketed CK Module



DESCRIPTION
LOCK TYPE: 8 Disc with built-in anti-pick system.
LOCK MOVEMENT: 90º Steps.
LOCK COMBINATIONS: 2000 differs or all to pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock either way up).
MASTER KEY SYSTEM AVAILABLE: Yes.
MAXIMUM PANEL THICKNESS: 3.0mm.
MODULE TYPE: Bracketed (the switch module is fitted to a "U" shaped bracket.
MODULE INDEXING ANGLES: 30º, 60º, 90º (keys can only be inserted/withdrawn at 90º intervals



KEY CODE
S = Same
D = Differs

CONTACT
B = BBM
M = MBB (30º Index Only)

SWITCH POSITIONS
02 = 2 Positions
03 = 3 Positions
12 = 12 Positions
13 = Continuous Rotation

CONTACT PLATING
S = Silver (Standard)
G = Gold
F = Gold Flash

ORDERING CODE
Build your part number by filling in the empty boxes with the appropriate numbers and letter

C K L [ ][ ][ ][ ] [ ][ ][ ] [ ][ ]

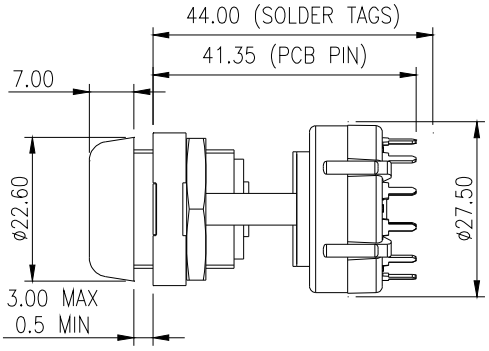
TOTAL LOCK MOVEMENT	KEY WITHDRAW POSITION
A = 90º	1
B = 90º	1,4
C = 180º	1,7
D = 180º	1,4,7
E = 360º	1,4,7,10

SWITCH INDEX ANGLE
3 = 30º
6 = 60º
9 = 90º

NUMBER OF SWITCH POLES
1 = 1 POLE
2 = 2 POLE
3 = 3 POLE
4 = 4 POLE

TERMINATION
S = SOLDER
P = PCB

CKIS (Impulsion) Lock switch with bracketed CK Module



DESCRIPTION
LOCK TYPE: 3 Disc impulsion lock (2 position only-spring back to position 1)
LOCK MOVEMENT: 90º Steps.
LOCK COMBINATIONS: 200 differs or all to pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock either way up).
MASTER KEY SYSTEM AVAILABLE: Yes.
MAXIMUM PANEL THICKNESS: 3.0mm.
MODULE TYPE: Bracketed (the switch module is fitted to a "U" shaped bracket.
MODULE INDEXING ANGLES: 30º, 60º, 90º (keys can only be inserted/withdrawn in position 1.
STANDARD CIRCUITRY & KEY FREE POSITIONS: 1, 2 or 3 pole, 2 positions at 90º only

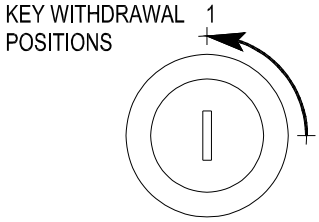
KEY CODE
S = Same
D = Differs

CONTACT
B = BBM

SWITCH POSITIONS
02 = 2 Positions

CONTACT PLATING
S = Silver (Standard)
G = Gold
F = Gold Flash

ORDERING CODE
Build your part number by filling in the empty boxes with the appropriate numbers and letter



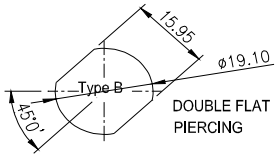
C K I S [A][ ][9][B] [ ][0][2] [ ][ ]

TOTAL LOCK MOVEMENT	KEY WITHDRAW POSITION
A = 90º	1

SWITCH INDEX ANGLE
9 = 90º

NUMBER OF SWITCH POLES
1 = 1 POLE
2 = 2 POLE
3 = 3 POLE

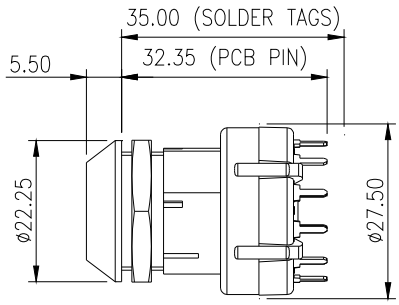
TERMINATION
S = SOLDER
P = PCB



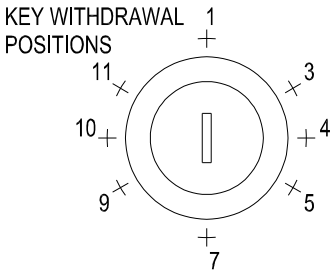
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk www.lorlin.co.uk

CK LOCK SWITCHES

CKL5 Lock switch with Snap on CK Module



DESCRIPTION
LOCK TYPE: 5 Disc
LOCK MOVEMENT: 60º or 90º Steps.
LOCK COMBINATIONS: 200 differs or all to pass (same key for all locks).
KEY TYPE: Flat, single entry (key can be inserted into the lock only one way up).
MASTER KEY SYSTEM AVAILABLE: Yes.
MAXIMUM PANEL THICKNESS: 3.4mm.
MODULE TYPE: Snap-on
MODULE INDEXING ANGLES: 30º, 60º, 90º (keys can be inserted/withdrawn at 60º or 90º angles).



KEY CODE
S = Same
D = Differs

CONTACT
B = BBM
M = MBB (30º Index Only)

SWITCH POSITIONS
02 = 2 Positions
03 = 3 Positions
12 = 12 Positions
13 = Continuous Rotation

CONTACT PLATING
S = Silver (Standard)
G = Gold
F = Gold Flash

ORDERING CODE
Build your part number by filling in the empty boxes with the appropriate numbers and letter

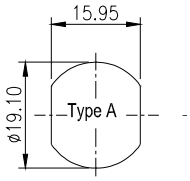
C K L 5 [ ][ ][ ][ ] [ ][ ][ ] [ ][ ]

TOTAL LOCK MOVEMENT	KEY WITHDRAW POSITION	TOTAL LOCK MOVEMENT	KEY WITHDRAW POSITION
A = 90º	1	G = 180º	1,3,5,7
B = 90º	1,4	H = 60º	1,3
C = 180º	1,7	J = 240º	1,3,5,7,9
D = 180º	1,4,7	K = 120º	1,3,5
E = 360º	1,4,7,10	L = 270º	1,4,7,10
F = 360º	1,3,5,7,9,11	M = 300º	1,3,5,7,9,11

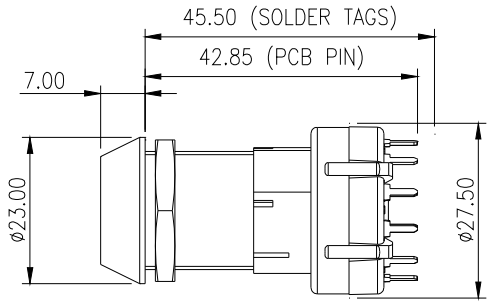
SWITCH INDEX ANGLE
3 = 30º
6 = 60º
9 = 90º

NUMBER OF SWITCH POLES
1 = 1 POLE
2 = 2 POLE
3 = 3 POLE
4 = 4 POLE

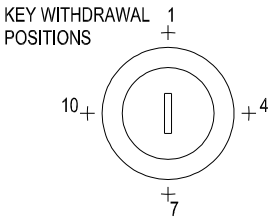
TERMINATION
S = SOLDER
P = PCB



CKL8 Lock switch with Snap on CK Module



DESCRIPTION
LOCK TYPE: 8 Disc
LOCK MOVEMENT: 90º Steps.
LOCK COMBINATIONS: 2000 differs or all to pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock either way up).
MASTER KEY SYSTEM AVAILABLE: Yes.
MAXIMUM PANEL THICKNESS: 13.9mm.
MODULE TYPE: Snap-on
MODULE INDEXING ANGLES: 30º, 60º, 90º (but keys can only be inserted/withdrawn at 90º angles).



KEY CODE
S = Same
D = Differs

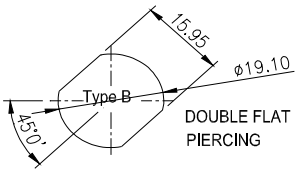
CONTACT
B = BBM
M = MBB (30º Index Only)

SWITCH POSITIONS
02 = 2 Positions
03 = 3 Positions
12 = 12 Positions
13 = Continuous Rotation

CONTACT PLATING
S = Silver (Standard)
G = Gold
F = Gold Flash

ORDERING CODE
Build your part number by filling in the empty boxes with the appropriate numbers and letter

C K L 8 [ ][ ][ ][ ] [ ][ ][ ] [ ][ ]



TOTAL LOCK MOVEMENT	KEY WITHDRAW POSITION	PANEL PIERCING 'A'	TOTAL LOCK MOVEMENT	KEY WITHDRAW POSITION	PANEL PIERCING 'B'
A = 30º	1		H = 90º	1+4	
B = 60º	1		J = 120º	1+4	
C = 90º	1		K = 150º	1+4	
D = 120º	1		L = 180º	1+4+7	
E = 150º	1		M = 270º	1+4+7+10	
F = 180º	1+7		N = 260º	1+4+7+10	
G = 360º	1+7				

SWITCH INDEX ANGLE
3 = 30º
6 = 60º
9 = 90º

NUMBER OF SWITCH POLES
1 = 1 POLE
2 = 2 POLE
3 = 3 POLE
4 = 4 POLE

TERMINATION
S = SOLDER
P = PCB

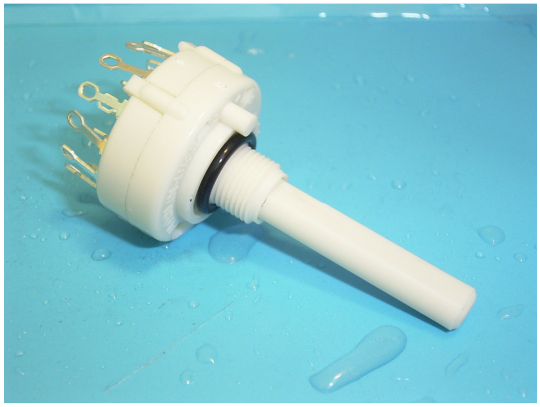
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk www.lorlin.co.uk

CKF SEALED ROTARY SWITCH

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	150mA@250V ac/dc resistive load 1A @ 24V dc resistive load
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

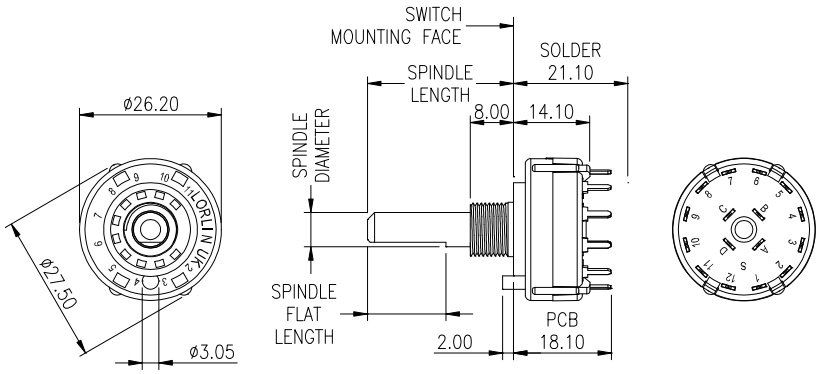
RoHS COMPLIANT

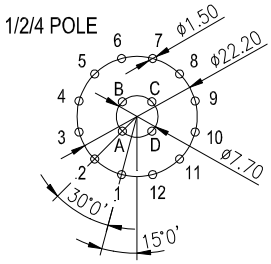


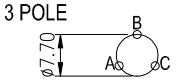
GENERAL FEATURES & OPTIONS

- 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.
- CKF same form, fit & function to the CK range
- Dampened indexing & reduced shaft play gives smooth feel.
- Front panel sealed to IP65

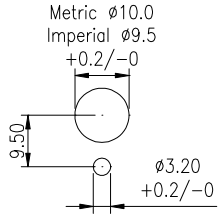
CKF ROTARY SWITCH SPECIFICATION SHEET







PRINTED CIRCUIT BOARD HOLE LAYOUT VIEWED FROM FRONT OF PCB



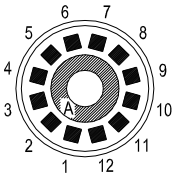
CUSTOMER PANEL (MIN 3mm) MOUNTING DETAILS. LUG MUST BE BLIND HOLE IN PANEL

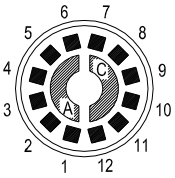
BASIC TYPES	SPINDLE DIAMETER	SPINDLE LENGTH FROM MOUNTING FACE	8mm LONG BUSH	SPINDLE FLAT LENGTH	ANGLE OF SPINDLE FLAT	SPINDLE FLAT THICKNESS
IMPERIAL	6.35mm	38mm	9.52 x 32TPI	30mm	90º	5.5mm
METRIC	6.00mm	50mm	M10 x 0.75	No Flat	---	---

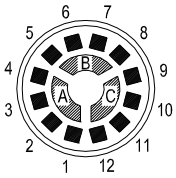
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk / www.lorlin.co.uk

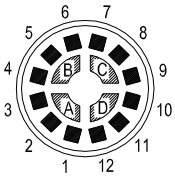
CKF ROTARY SWITCH

30° INDEXING

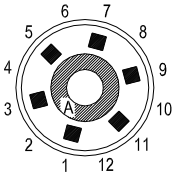


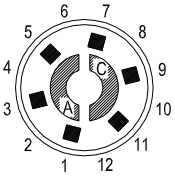


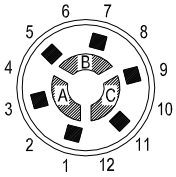


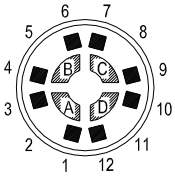


60° INDEXING

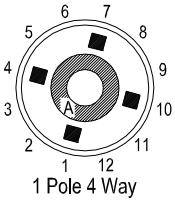


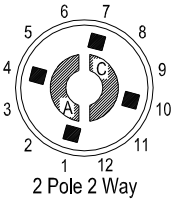


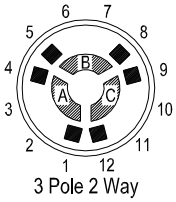




90° INDEXING

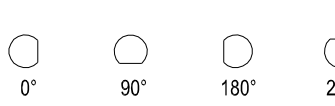




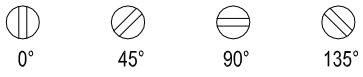


IMPORTANT WAFERS FLATS & SLOTS VIEWED FROM THE FRONT OF SWITCH IN EXTREME ANTICLOCKWISE POSITION (POSITION 1)

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 CKF TYPE BY CHANGING PART NUMBER TO START WITH CKF

C	K	F								

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

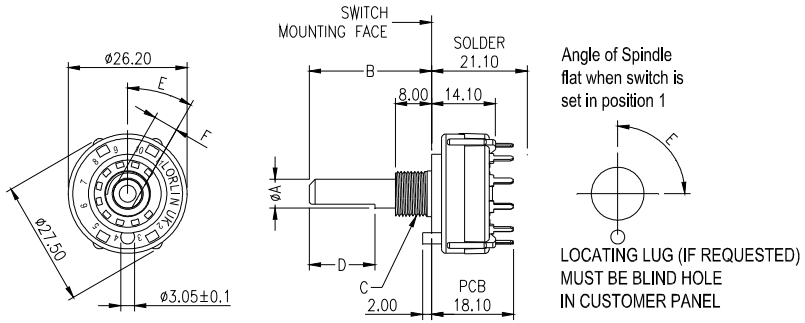
ANGLE OF FLAT (º)			
A	0	N	195
B	15	O	
C	30	P	210
D	45	Q	225
E	60	R	240
F	75	S	255
G	90	T	270
H	105	U	285
I	120	V	300
J	135	W	315
K	150	X	330
L	165	Y	345
M	180		

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

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

CKF ROTARY SWITCH

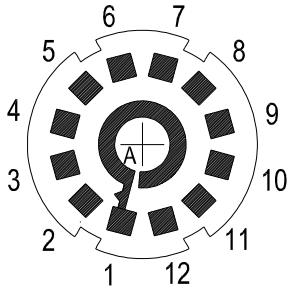
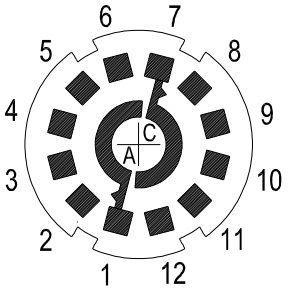
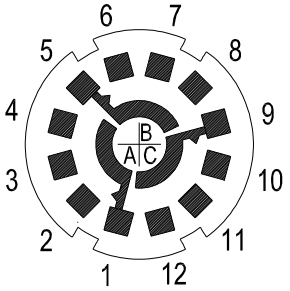
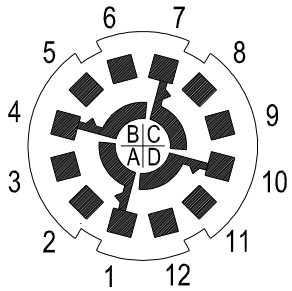
SPECIFICATION SHEET



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:

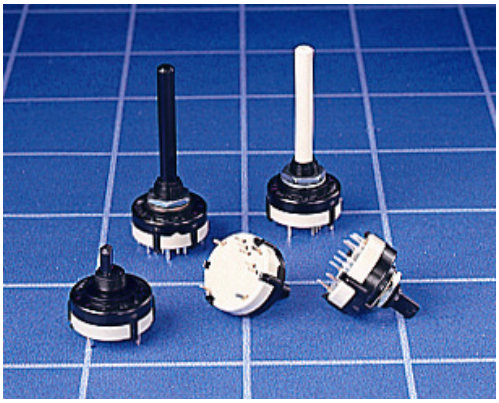
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk / www.lorlin.co.uk

GCK GRAY CODED ROTARY SWITCH

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

RoHS COMPLIANT

Switch Rating:	150mA @ 50Vac/dc resistive load
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
- Gray code Standard and complementary versions.
- Moulded 27.5mm diameter single wafer switch.
- Standard 22.5º indexing 4-Bit
- Standard 45° indexing 3-Bit
- Printed Circuit Terminals.
- 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
4-Bit Gray – Standard Spindle	GCK 1016	GCK 1017	GCK1018	GCK1019
4-Bit Gray Comp – Standard Spindle	GCK 1020	GCK1021	GCK1022	GCK1023
3-Bit Gray – Standard Spindle	GCK 1024	GCK1025	GCK1026	GCK1027
3-Bit Gray Comp – Standard Spindle	GCK 1028	GCK1029	GCK1030	GCK1031

	COMMON E Connection to Terminals			
DIAL	A	B	C	D
0				
1				•
2			•	•
3			•	
4		•	•	
5		•	•	•
6		•		•
7		•		
8	•	•		
9	•	•		•
A	•	•	•	•
B	•	•	•	
C	•		•	
D	•		•	•
E	•			•
F	•			

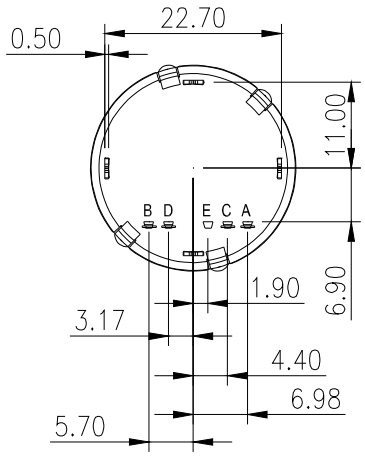
LORLIN GRAY CODED COMMON –4-BIT

	COMMON E Connection		
DIAL	A	B	C
1			
2			•
3		•	•
4		•	
5	•	•	
6	•	•	•
7	•		•
8	•		

LORLIN GRAY CODED COMMON –3-BIT

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

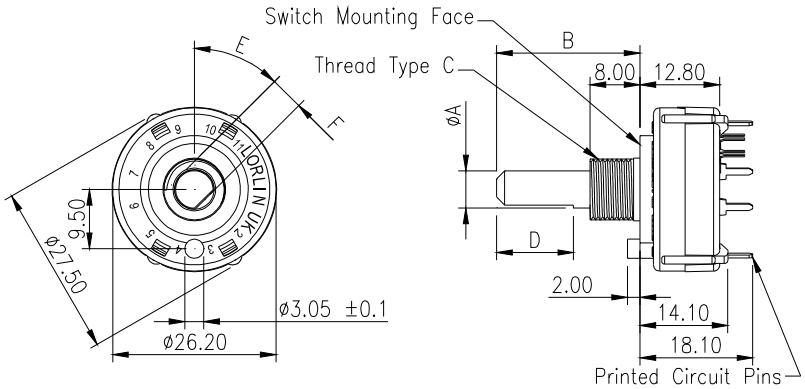
GCK GRAY CODED ROTARY SWITCH



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:

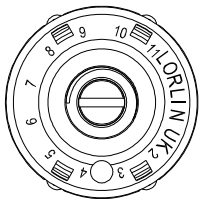
1. Switching Code
2. Imperial or Metric Spindle Diameter
3. Dimension (B) Spindle length from Mounting Face
4. Thread Required (C)
5. Spindle Flat length if required (D)
6. Angle of Flat (E)
7. Spindle Flat Depth (F)
8. 8 Position or No Stop Version
9. Contact Plating: Silver/Gold Flash/2.5 microns Gold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

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)

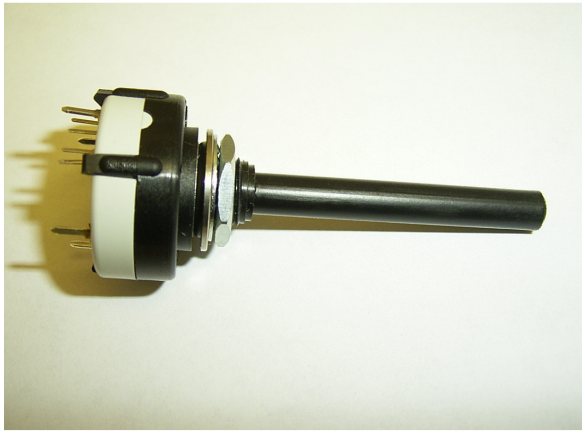
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail info@lorlin.co.uk | www.lorlin.co.uk

BCKS BINARY CODED ROTARY SWITCH

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

RoHS COMPLIANT

Switch Rating:	150mA @ 50V ac/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.
- Panel Sealed to IP65 rating
- 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	---	---

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) – Flush Slot	-	BCKS1009 (lug)	BCKS1014 (lug)	-
Comp (Code 042) – Flush Slot	-	-	BCKS1019 (lug)	BCKS1020 (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

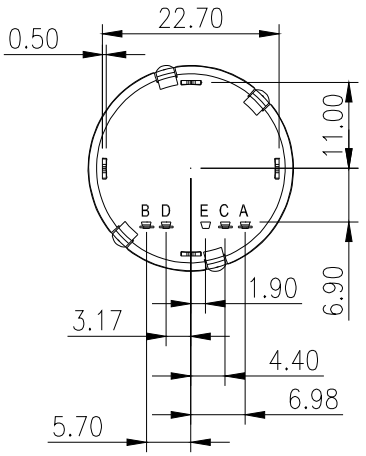
	COMMON E Connection to Terminals			
DIAL	A	B	C	D
1	•	•	•	•
2	•	•	•	
3	•	•		•
4	•	•		
5	•		•	•
6	•		•	
7	•			•
8	•			
9		•	•	•
10		•	•	
11		•		•
12		•		
13			•	•
14			•	
15				•
16				

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

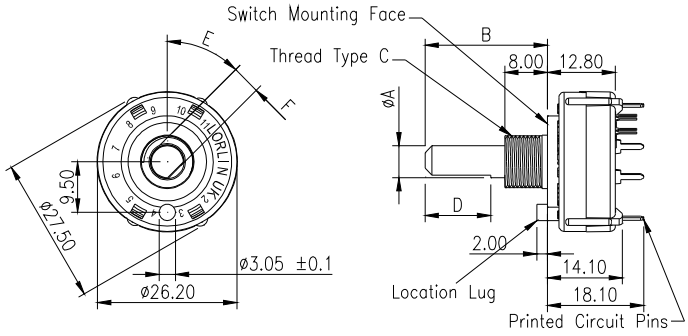
BCKS BINARY CODED ROTARY SWITCH



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:

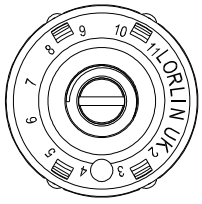
1. Switching Code
2. Imperial or Metric Spindle Diameter
3. Dimension (B) Spindle length from Mounting Face
4. Thread Required (C)
5. Spindle Flat length if required (D)
6. Angle of Flat (E)
7. Spindle Flat Depth (F)
8. 16 Position or No Stop Version
9. Contact Plating: Silver/Gold Flash/2.5 microns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

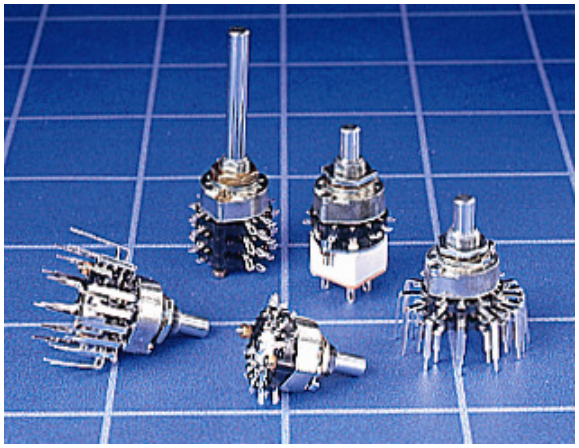
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk | www.lorlin.co.uk

RA ROTARY SWITCH

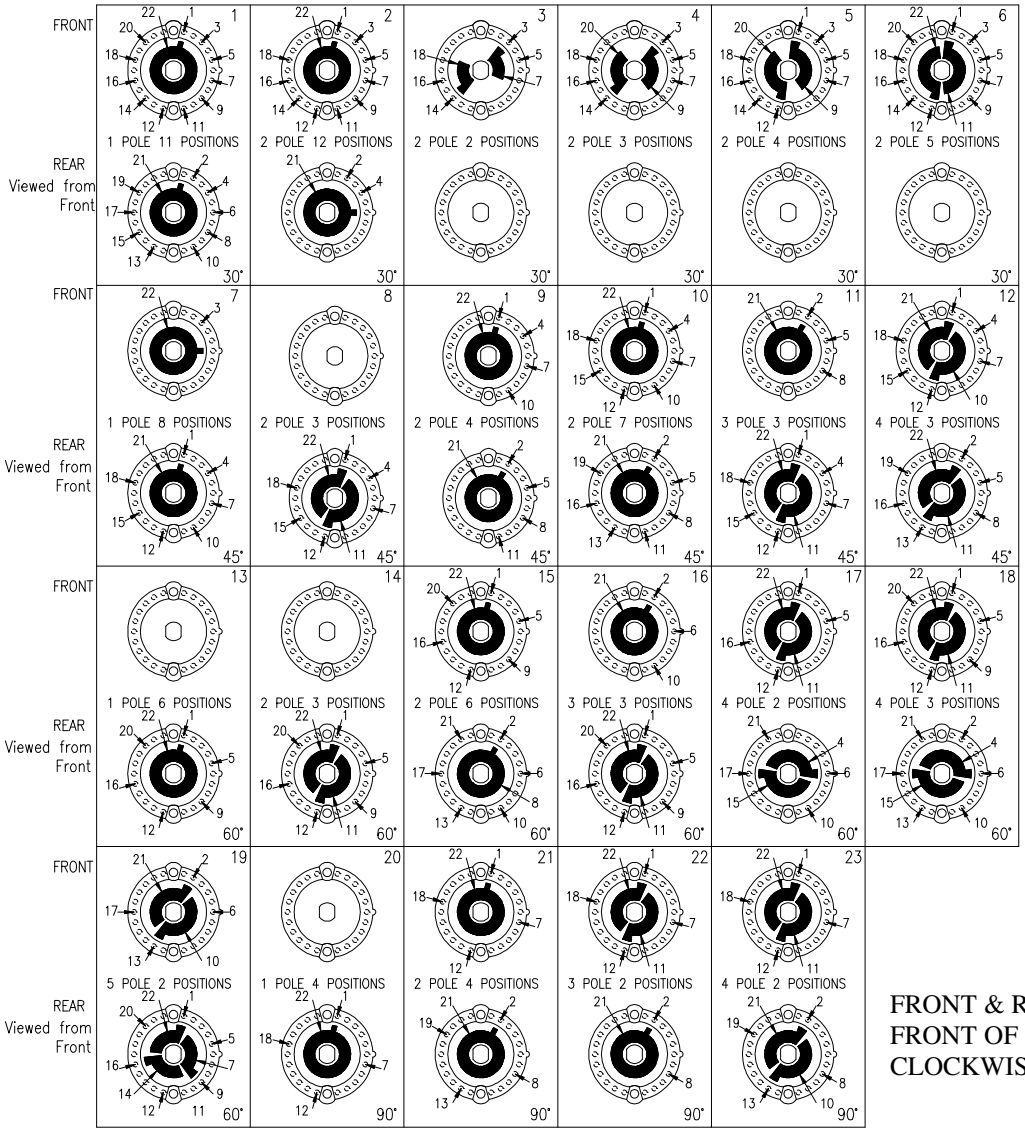
RoHS COMPLIANT

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	150mA @ 250V ac/dc
(resistive load only)	350mA @ 110V ac/dc
	1A @ 12V ac/dc
Life:	>10,000 Cycles
Operating Temperature:	-30ºC to +85 ºC
Proof Voltage:	1,000Vac (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20 mΩ (Initial)
Operating Torque (nominal):	7.2 cNm
End Stop Torque (nominal):	1.2 Nm
Wafer:	Polyphenylene Sulphide (PPS)
Housing:	Zinc Alloy Bright Zinc Plated
Contact/Terminal Material:	Brass CZ108 Ag Plated
Spindle:	Mild Steel Zn Plated and Passivated



TYPICAL WAFER LAYOUTS 30º 45º 60º 90º



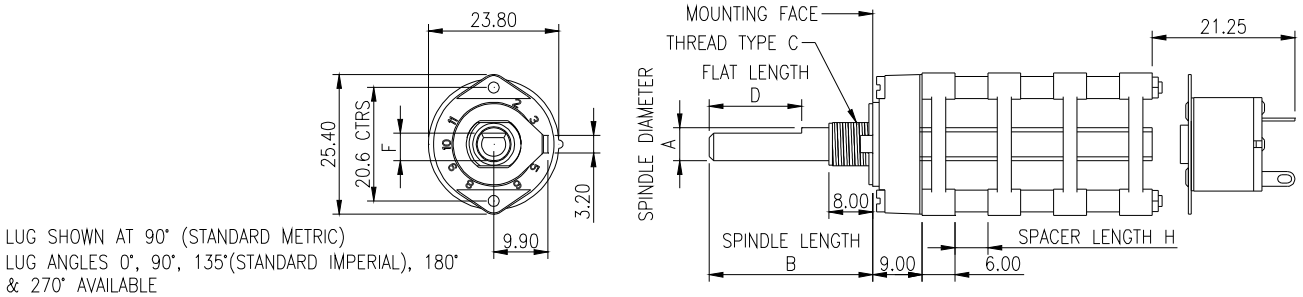
GENERAL FEATURES

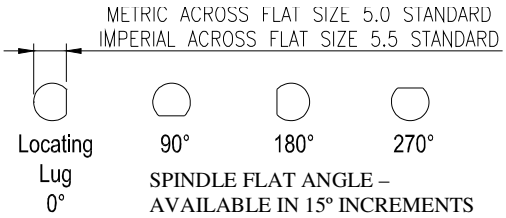
- Made in UK
- 25.4mm diameter multi-wafer rotary switch
- Standard 30º Indexing.
- Solder or Printed Circuit Board.
- Shorting (MBB) or non shorting (BBM) contacts.
- Adjustable stop to restrict number of positions
- Standard self-stacking wafers
- P.C. Terminals pitch circle diameter versions
- Special options: 45º, 60º or 90º indexing, Gold Flashed or Gold Plated contacts, rotary mains switch, insulated drive shafts, spindles with special flats, slots or knurls.

FRONT & REAR WAFERS VIEWED FROM FRONT OF SWITCH IN EXTREME COUNTER CLOCKWISE POSITION

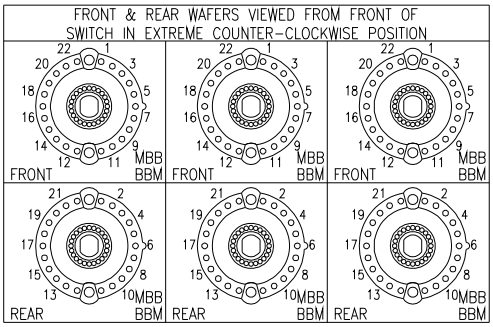
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk | www.lorlin.co.uk

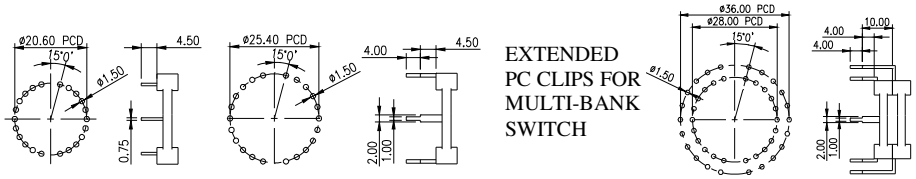
RA ROTARY SWITCH





	A	B	C	D	E	F	G	HJKL
	Spindle Diameter	Spindle Length	Bush Thread	Spindle Flat Lgth	Spindle Angle	Spindle Flat	Locating Lug Angle	Spacer Length
IMPERIAL	6.35mm	50mm	9.52 x 32TPI			(5.5mm)		
METRIC	6.0mm	50mm	M10 x 0.75			(5.0mm)		





PRINTED CIRCUIT PINS STANDARD PRINTED CIRCUIT CLIPS

ORDERING CODE

Please Note: Standard Spindles are unflattened x 50mm FMF. Preferred Non-Standard Spindles (unflattened) are 14mm, 16mm, 18mm, 20mm, 22mm and 24mm from the mounting face (FMF). These lengths include the length of the 8mm long bush

CODE	TERMINAL
S	Solder Clips
P	20.5mmØ
A	25.4mmØ
B	28.0mmØ
C	36.0mmØ

CODE	CONTACT PLATING
S	Silver (2µ)
G	Gold Plate (Au 2.5 µ, Ni 2 µ)
F	Gold Flash (0.2 µ)

CODE	SPINDLE/ BUSH
M	6mmØ M10 x 0.75
I	6.35mmØ 9.52 x 32TPI

R A [ ][ ] [ ] [ ][ ] [ ][ ][ ] [ ][ ][ ][ ]

CODE	No. of Wafers
01	1 wafer
02	2 wafer
03	3 wafer
04	4 wafer
05	5 wafer
06	6 wafer
07	7 wafer
08	8 wafer
09	9 wafer
10	10 wafer

CODE	INDEX ANGLE & No of POLES	
A	30°	1 Pole
B	30°	2
C	30°	3
D	30°	4
E	30°	5
F	30°	6
G	45°	1
H	45°	2
K	45°	3

CODE	INDEX ANGLE & No of POLES	
L	45°	4 Pole
M	60°	1
N	60°	2
P	60°	3
R	60°	4
S	60°	5
T	90°	1
W	90°	2
X	90°	3
Y	90°	4

CODE	MAXIMUM No. of POSITIONS
01	1
02	2
03	3
04	4
05	5
06	6
07	7
08	8
09	9
10	10
11	11
12	12
00	No Stop

CODE	CIRCUITRY
B	BBM
M	MBB

CODE	Spindle Length from Mounting face (including bush length)	
A	14mm	No Flat
B	16	No Flat
C	18	No Flat
D	20	No Flat
E	22	No Flat
F	24	No Flat
G	50	0°/42mm
H	50	90°/42mm
K	50	180°/42mm
L	50	270°/42mm
S	50	No Flat

CODE	SPECIAL OPTIONS Mains Switch
O	None
N	OFF/ON Mains switch

CODE	WAFER SPACING
X	Self Stacked
H	3mm
J	6mm
K	8mm
L	10mm

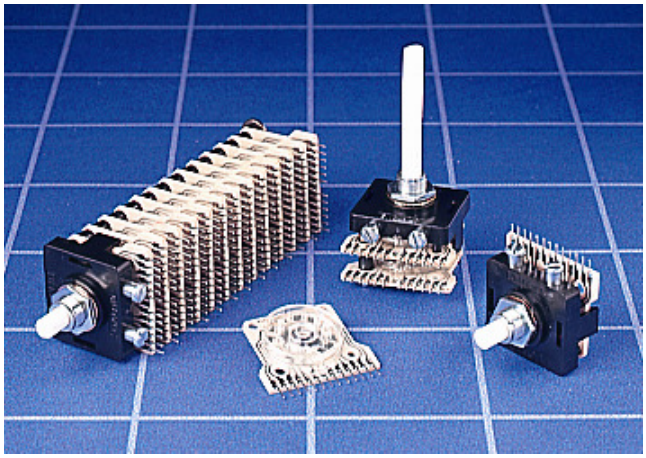
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk | www.lorlin.co.uk

PT ROTARY SWITCH

RoHS COMPLIANT

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

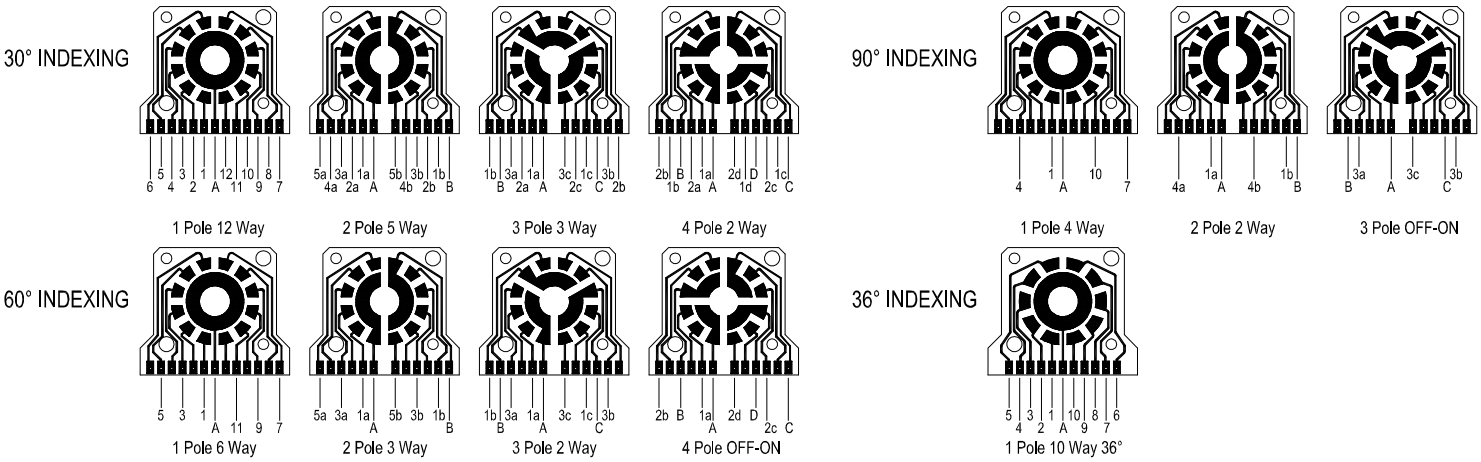
Switch Rating :	500mA@250Vac/dc resistive load
Life:	>10,000 Cycles
Operating Temperature:	-30ºC to +85 ºC
Proof Voltage:	1,000Vac (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<50 mΩ (Initial)
Operating Torque (nominal)	Standard 5.6 cNm
End Stop Torque (minimum):	0.80 Nm
Wafer Circuit Board:	Epoxy Glass Fibre
Housing/Bush:	Polyamide 6.6 G.F. V0 Rated
Spindle:	Polyamide 6.6 G.F. V0 Rated
Moving Contact:	Phosphor Bronze Ag Plated
P/C Track:	Copper, Ag Plated
Terminals:	Brass, CZ108, Sn Plated
Contact Carrier:	Polycarbonate



GENERAL FEATURES

- Made in UK
- Multi wafer PCB switch.
- Standard 30º indexing
- P.C. Terminals on 2.54mm pitch
- Shorting MBB (only 30º indexing or Non Shorting BBM contacts
- Standard insulated spacers (6.35mm/7.63mm/10.16mm)
- **Special options:**36 º, 60 º or 90º indexing, gold flashed or gold Plated contacts (2.5 microns gold over 2 microns silver over 2 microns nickel).
- Adjustable stop, base mounting with brass fixing bush, spindles with special flats non-standard wafer spacers.

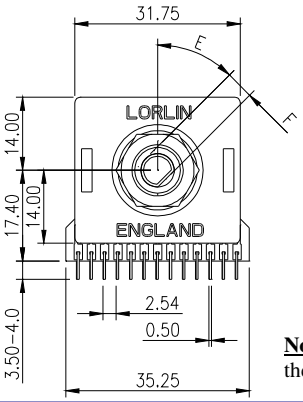
PC TERMINAL LAYOUTS VIEWED FROM KNOB END OF SPINDLE

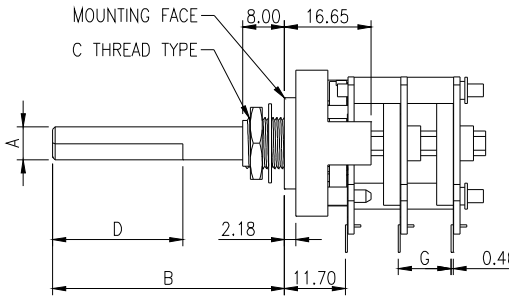


	MAXIMUM NUMBER OF POSITIONS (WAYS) PER WAFER			
No. Of Poles	**30 º Index**	**36 º Index**	**60 º Index**	**90 º Index**
1	12 No Stops	10	6	4
2	5	-	3	2
3	3	-	2	OFF-ON
4	2	-	OFF-ON	-

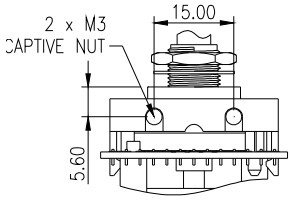
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood Rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk | www.lorlin.co.uk

PT ROTARY SWITCH





BASE MOUNT OPTION
Base mounting option.
Necessary spacers are supplied when this option is specified.



Note: OPTIONAL SPINDLE FLAT SHOWN. The Angle of the spindle flat is shown when the switch is set in the fully anti-clockwise position (ie position1) viewed from the knob end on the spindle.

TO SPECIFY PART NUMBERS FOR SINGLE WAFER SWITCHES				
	STANDARD METRIC		STANDARD IMPERIAL	
CIRCUITRY AT 30º INDEXING	Shorting (MBB)	Non Shorting (BBM)	Shorting (MBB)	Non Shorting (BBM)
1 Pole 12 positions	PT6034	PT6003	PT6172	PT6015
1 Pole 12 Positions – No Stop	-	PT6002	-	PT6014
2 Pole 5 Positions	PT6035	PT6004	PT6474	PT6016
3 Pole 3 Positions	-	PT6005	-	PT6017
4 Pole 2 Positions	-	PT6006	-	PT6018
1 Pole 10 Positions (circuitry at 36º indexing)	-	PT6461	-	PT6462

	STANDARD DIMENSIONS						
	A	B	C	D	E	F	G
	SPINDLE DIAMETER	SPINDLE LENGTH	BUSH THREAD	SPINDLE FLAT LTH	SPINDLE ANGLE	SPINDLE FLAT DP	SPACER LENGTH
IMPERIAL	6.35mm	50mm	9.52 x 32TPI	No Flat	-	(5.5mm)	-
METRIC	6.0mm	50mm	M10 x 0.75	No Flat	-	(5.0mm)	-

ORDERING CODE FOR NON-STANDARD SWITCHES

P	T											

BASE MOUNTING HARDWARE
B = Fitted
O = Not Required

Moulded Spacers Between Wafers
B=6.35mm C=7.63mm
D=10.16mm

Spindle Length(B) FMF
Full mm ≤50mm

No. of WAFERS			
A	1	M	11
B	2	N	12
C	3	P	13
D	4	R	14
E	5	S	15
F	6	T	16
G	7	U	17
H	8	V	18
K	9	W	19
L	10		

INDEX ANGLE & No of POLES		
A	30º	1 Pole
B		2
C		3
D		4
E	60º	1 Pole
F		2
G		3
H		4
I	90º	1 Pole
J		2
K		3
L	36º	1 Pole

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
L	OFF/ON

	MBB OR BBM	CONTACT PLATING
A	BBM	SILVER
B	MBB	PLATE
C	BBM	GOLD
D	MBB	PLATE
E	BBM	GOLD
F	MBB	FLASH

	Spindle Ø (mm)	Spindle Depth	Bush Ø (mm)
A	6.0	Nil	M10
B	6.0	5.0mm	M10
C	6.35	Nil	9.52
D	6.35	5.5	9.52

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

ANGLE OF FLAT			
A	0º	N	195º
B	15 º	P	210º
C	30º	Q	225º
D	45º	R	240º
E	60º	S	255º
F	75º	T	270º
G	90º	U	285º
H	105	V	300 º
I	120º	W	315º
J	135º	X	No Flat
K	150º	Y	330º
L	165º	Z	345º
M	180º		

Please send drawing if your requirements cannot be fulfilled by using the ordering code
Special circuitry can be developed if required.

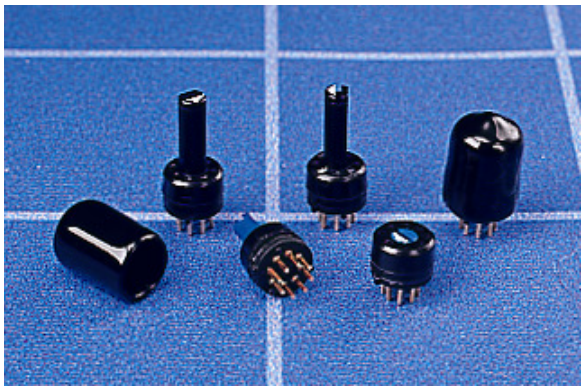
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood Rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk | www.lorlin.co.uk

MT SUBMINIATURE ROTARY SWITCH

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

RoHS COMPLIANT

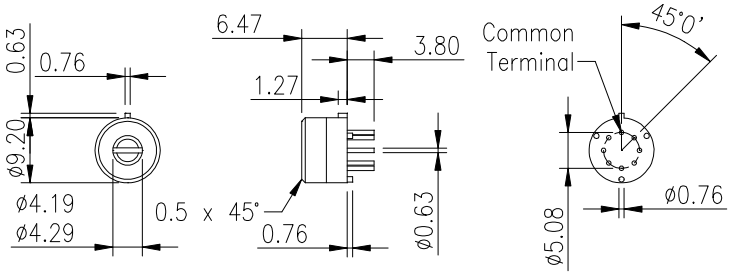
Switch Ratings:	500mA @ 24Vac/dc
Life:	>5,000 Cycles
Operating Temperature:	-30ºC to +65 ºC
Proof Voltage:	500Vac (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<50 mΩ (Initial) <100 mΩ after operating life
Indexing Angle:	45º/ position – 8 position max.
Rotational Torque:	3.2+/-0.5 cNm (nominal)
End Stop Torque:	14 cNm (nominal)
Switching Base/Index:	Polyester G.F. (PBT) V0 Rated
Spindle:	Acetal Homopolymer
Rotor Contact:	Brass CZ108 Au Plated
Common Ring Terminal:	Phosphor Bronze Au Plated
Selected Terminals:	Copper Alloy Au Plated



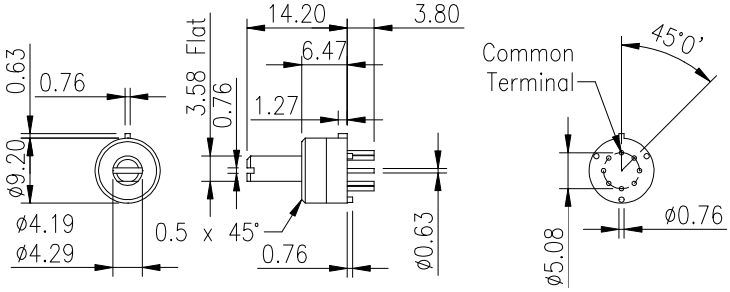
GENERAL FEATURES

- Moulded 9.2mm diameter TO-5 Rotary Switch.
- 45º Indexing, positive action
- 1 Pole up to 7 break-before-make positions + "OFF"
- 6.4mm mounted height above PCB.
- Screwdriver operating slot flush with top of housing.
- Also available with 7.75mm long x 3.58mm diameter spindle with full length flat and screwdriver slot.
- Stops available as required from 2 to 8 positions.
- Optional protective cover (MT10-0084/0020).

FLUSH SCREWDRIVER SLOT OPERATING VERSION



SPINDLE OPERATED VERSION



ORDERING CODES

ROTATION	NUMBER OF POSITIONS	TRAVEL	PART NUMBER (FLUSH SLOT)	PART NUMBER (WITH SPINDLE)
No Stop Continuous Rotation	OFF, 1,2,3,4,5,6,7	360º	MT-11-10	MT-21-10
"OFF" In Extreme Anti-Clockwise Position (Position 1)	OFF, 1,2,3,4,5,6	270º	MT-11-70	MT-21-70

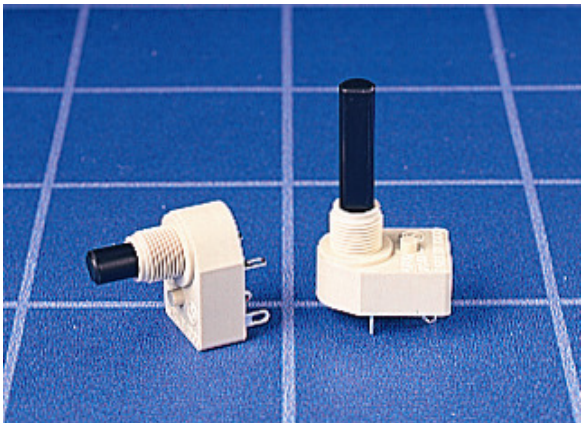
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk

RMS ROTARY MAINS SWITCH

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

RoHS COMPLIANT

Switch Rating:	4/80A @ 250Vac. R/C 10A @ 12Vdc
Life:	>15,000 Cycles
Operating Temperature:	-25ºC to +85ºC
Proof Voltage:	3 KVac (Initial)
Insulation Resistance:	>999MΩ @ 500Vdc (Initial)
Contact Resistance:	<20 mΩ (Initial)
Contact Gap:	3mm (min)
Switch Contacts:	Silver Cadmium Oxide
Switch Chamber:	Polyamide 6.6 G.F. V0 Rated
Tag Panel:	SRBP
Terminals:	Brass CZ108, Ag plated

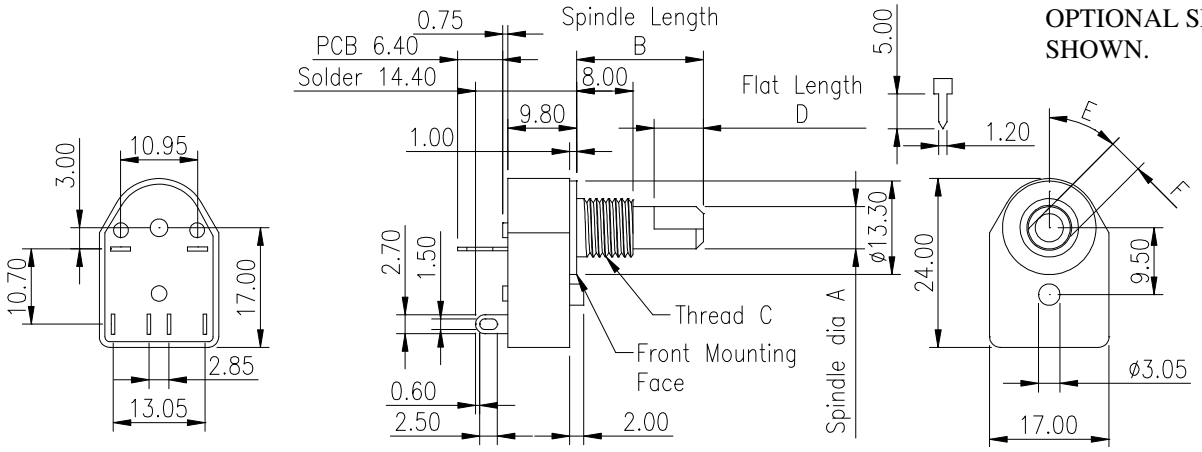


APPROVED TO EN61058 ENEC (VDE)
Note: CHANGEOVER TYPE HAS NO APPROVALS.

GENERAL FEATURES

- Made in UK.
- 45º Index Angle.
- Double Pole single throw basic circuitry.
- Solder or Printed Circuit Terminals.
- Spindle flats (optional)

TERMINAL LAYOUT



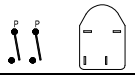
OPTIONAL SPINDLE FLAT SHOWN.

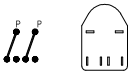
OPTIONAL SPINDLE FLATS

NOTE: The angle of the spindle flat is shown with the locating lug at the bottom of the switch, when the switch is set in the fully anticlockwise position (i.e. position 1) viewed from the knob end of the spindle.

STANDARD PART NUMBERS

BASIC TYPES	A Spindle Diameter	B Spindle Length	C Bush Thread	D Spindle Flat Lgth	E Spindle Angle	F Spindle Flat
IMPERIAL	6.35mm	55mm	9.52 x 32TPI	No Flat	N/a	N/a
METRIC	6.0mm	38mm	M10 x 0.75	No Flat	N/a	N/a

CIRCUITRY	TERMINAL LAYOUT VIEWED FROM REAR OF SWITCH	TERMINAL TYPE	STANDARD METRIC SWITCHES	STANDARD IMPERIAL SWITCHES
2 POLE OFF-ON		SOLDER	RMS1035	RMS1100
		PCB	RMS1130	RMS1159

CIRCUITRY	TERMINAL LAYOUT VIEWED FROM REAR OF SWITCH	TERMINAL TYPE	STANDARD METRIC SWITCHES	STANDARD IMPERIAL SWITCHES
2 POLE CHANGEOVER (Not approved)		SOLDER	RMS1089	RMS1101
		PCB	RMS1153	RMS1128

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

WRLCK LOCK SWITCHES

RoHS COMPLIANT

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	150mA @ 250V ac/dc resistive load
Life:	>10,000 Cycles
Operating Temperature:	-30ºC to +85 ºC
Proof Voltage:	1,500Vac (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20mΩ (initial)
Housing Material:	Polycarbonate
Wafer Material:	Polyamide 6.6 G.F. V0 Rated
Contact/Terminal Material:	Brass CZ108 Ag Plated
Lock Housing:	Zinc Alloy Bright Cr Plated
Lock Type:	5 Disc
Std. Qty. of Keys per lock:	2 Brass - Ni Plated

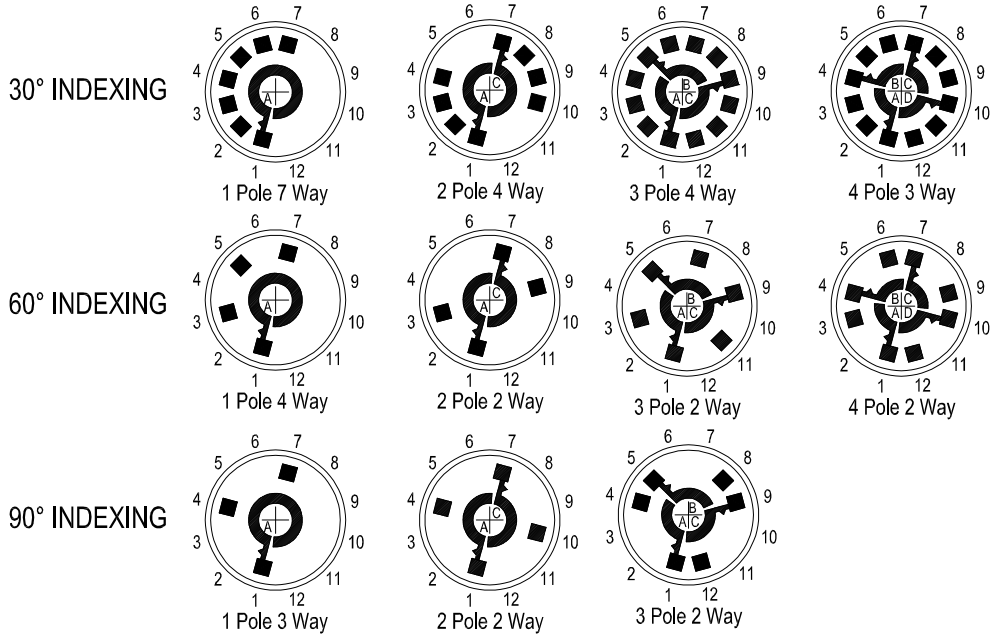
IP67 INGRESS PROTECTION

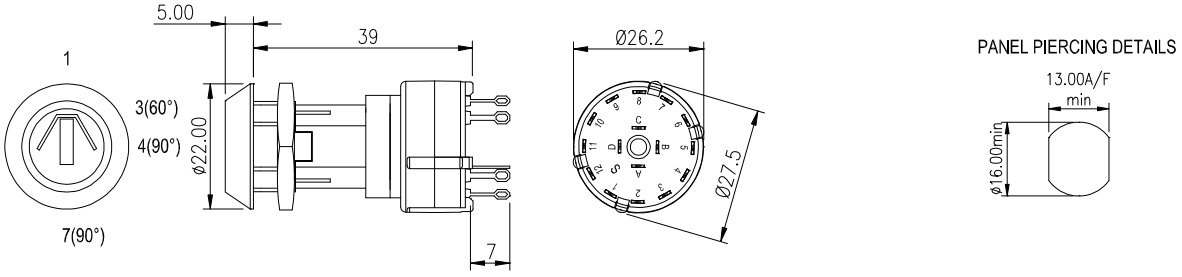
GENERAL FEATURES

- Made in UK.
- Moulded Single Wafer Lock switch.
- Two part construction. The lock is inserted into the panel from the front. The CK module snap-on, from the rear of the panel.
- All contacts are non-shorting (BBM).
- Solder or printed circuit terminals.
- Keys removable at 60º or 90º angles
- Max panel thickness 3mm.
- Switch indexed 30º, 60º or 90º.
- Two keys per lock. Additional keys to order.
- Keys to pass (common combination) or 200 differ (different combinations)
- Key type flat, double entry (key can be inserted into the lock either way up)

CK LOCK SWITCH MODULE TERMINAL LAYOUTS

(VIEWED FROM THE KEY) POSITION 1





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

WRLCK LOCK SWITCHES

BASIC PART No.	SWITCH POLES	SWITCH OUTPUTS	TOTAL MOVEMENT	MODULE INDEXING	KEY WITHDRAWAL POSITIONS
WRLCK-30-13-*-A	1	3	60°	30º	1 ONLY
WRLCK-30-13-*-B	1	3	60°	30º	1 , 3
WRLCK-30-23-*-A	2	3	60°	30º	1 ONLY
WRLCK-30-23-*-B	2	3	60°	30º	1 , 3
WRLCK-30-33-*-A	3	3	60°	30º	1 ONLY
WRLCK-30-33-*-B	3	3	60°	30º	1 , 3
WRLCK-30-43-*-A	4	3	60°	30º	1 ONLY
WRLCK-30-43-*-B	4	3	60º	30°	1 , 3
WRLCK-30-14-*-A	1	4	90º	30º	1 ONLY
WRLCK-30-14-*-C	1	4	90º	30º	1 , 4
WRLCK-30-24-*-A	2	4	90º	30º	1 ONLY
WRLCK-30-24-*-C	2	4	90º	30º	1 , 4
WRLCK-30-34-*-A	3	4	90º	30º	1 ONLY
WRLCK-30-34-*-C	3	4	90º	30°	1 , 4
WRLCK-30-17-*-A	1	7	180º	30°	1 ONLY
WRLCK-30-17-*-C	1	7	180º	30°	1 , 4
WRLCK-30-17-*-D	1	7	180º	30°	1 , 4 , 7
WRLCK-60-12-*-A	1	2	60°	60º	1 ONLY
WRLCK-60-12-*-B	1	2	60°	60º	1 , 3
WRLCK-60-22-*-A	2	2	60°	60º	1 ONLY
WRLCK-60-22-*-B	2	2	60°	60º	1 , 3
WRLCK-60-32-*-A	3	2	60°	60º	1 ONLY
WRLCK-60-32-*-B	3	2	60°	60º	1 , 3
WRLCK-60-42-*-A	4	2	60°	60º	1 ONLY
WRLCK-60-42-*-B	4	2	60º	60°	1 , 3
WRLCK-60-14-*-A	1	4	180°	60°	1 ONLY
WRLCK-60-14-*-E	1	4	180°	60°	1 , 7
WRLCK-90-12-*-A	1	2	90°	90º	1 ONLY
WRLCK-90-12-*-C	1	2	90°	90º	1 , 4
WRLCK-90-22-*-A	2	2	90°	90º	1 ONLY
WRLCK-90-22-*-C	2	2	90°	90º	1 , 4
WRLCK-90-32-*-A	3	2	90°	90º	1 ONLY
WRLCK-90-32-*-C	3	2	90°	90º	1 , 4
WRLCK-90-13-*-A	1	3	180°	90º	1 ONLY
WRLCK-90-13-*-D	1	3	180º	90°	1 , 4 , 7

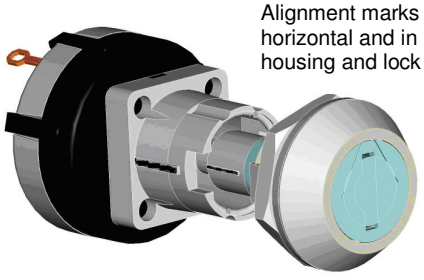
*	MBB or BBM	Contact Type	Contact Plating
A	BBM	Solder	SILVER
B	MBB	Solder	
C	BBM	PCB	
D	MBB	PCB	
E	BBM	Solder	GOLD PLATE
F	MBB	Solder	
G	BBM	PCB	
H	MBB	PCB	
I	BBM	Solder	GOLD FLASH
J	MBB	Solder	
K	BBM	PCB	
L	MBB	PCB	

REPLACE * IN BASIC CODE WITH LETTER FROM ABOVE TABLE. MBB ONLY IN 30°

SAME KEY NUMBER 901 IS SUPPLIED AS STANDARD.

TO REQUEST DIFFER KEY PLEASE ADD ‘D’ TO END OF PART NUMBER. i.e. SRLCKB-90-13-A-D-D

ASSEMBLY ALIGNMENT DETAILS



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

SRL LOCK SWITCHES

RoHS COMPLIANT

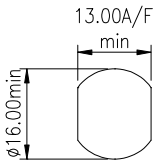
GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	1A @ 230Vac
(Switching Resistive load):	5A @ 115Vac
No Mains Isolation	3A @ 50Vdc
Current Carrying Capacity	5A non switching
Life:	>10,000 Cycles
Operating Temperature:	-20ºC to +65 ºC
Proof Voltage:	750 Vdc (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20 mΩ (Initial)
Lock Type:	5 Disc
Std. Qty. of Keys per Lock:	2 Mild Steel Ni Plated
Contact Material:	Brass CZ108 Ag Plated
Moulding Material:	Polyamide 6.6 G.F. V0 Rated
Lock Housing:	Zinc Alloy Bright Cr Plated

GENERAL FEATURES

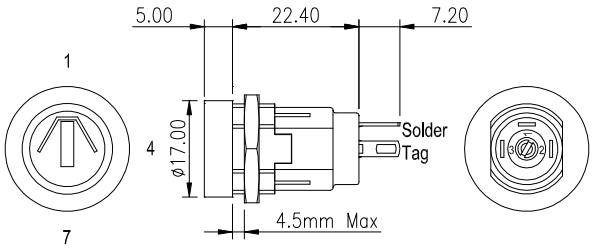
- Made in UK.
- Miniature key-operated Lock switch.
- Single or Double pole
- Up to 200 key combinations – keys to differ.
- Common keys available – keys to pass.
- Keys are double entry (they can be inserted into the lock either way up).
- Occupies small panel area.
- Easily assembled through front of equipment panel.
- Rear projection less than 30mm from panel.
- Optional Extras :
- Moulded bezel for parallel lock headed versions (SRL 02101).

PANEL PIERCING DETAILS

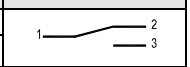
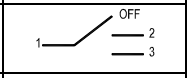
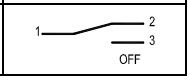


SINGLE POLE LOCK SWITCH

Parallel Lock Head 90º Indexing

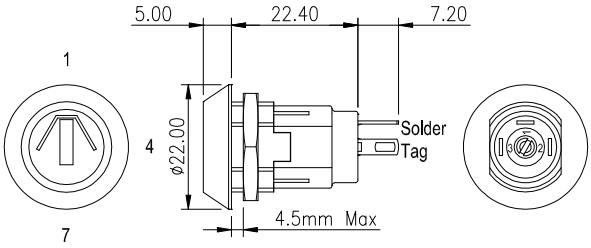


Key Withdrawal Positions

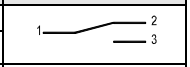
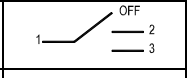
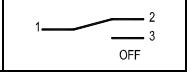
BASIC PART No.	TOTAL MOVEMENT	INDEXING	KEY WITHDRAWAL POSITIONS	SWITCH CONFIGURATION
SRL-5-A	90º	90º	1,4	
SRL-5-B	90º	90º	1 ONLY	
SRL-5-C	180º	90º	1,4,7	
SRL-5-N	180º	90º	1,4,7	

SINGLE POLE LOCK SWITCH

Tapered Lock Head 90º Indexing



Key Withdrawal Positions

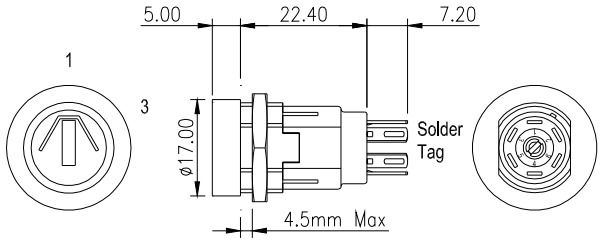
BASIC PART No.	TOTAL MOVEMENT	INDEXING	KEY WITHDRAWAL POSITIONS	SWITCH CONFIGURATION
SRL-5-D	90º	90º	1,4	
SRL-5-E	90º	90º	1 ONLY	
SRL-5-F	180º	90º	1,4,7	
SRL-5-P	180º	90º	1,4,7	

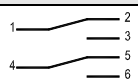
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk | www.lorlin.co.uk

SRL LOCK SWITCHES

DOUBLE POLE LOCK SWITCH

Parallel Lock Head 60º Indexing

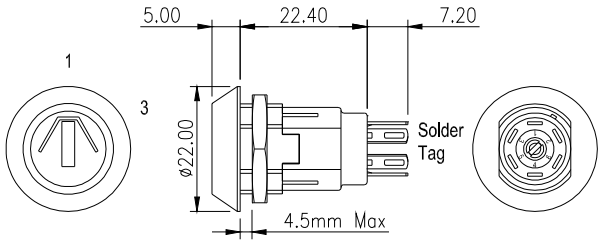


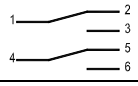
BASIC PART No.	TOTAL MOVEMENT	INDEXING	KEY WITHDRAWAL POSITIONS	SWITCH CONFIGURATION
SRL-5-J	60º	60º	1,3	
SRL-5-K	60º	60º	1 ONLY	

Key Withdrawal Positions

DOUBLE POLE LOCK SWITCH

Tapered Lock Head 60º Indexing

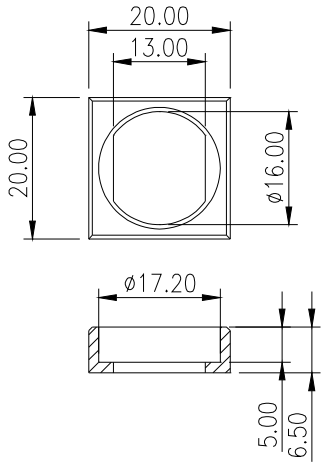


BASIC PART No.	TOTAL MOVEMENT	INDEXING	KEY WITHDRAWAL POSITIONS	SWITCH CONFIGURATION
SRL-5-L	60º	60º	1,3	
SRL-5-M	60º	60º	1 ONLY	

Key Withdrawal Positions

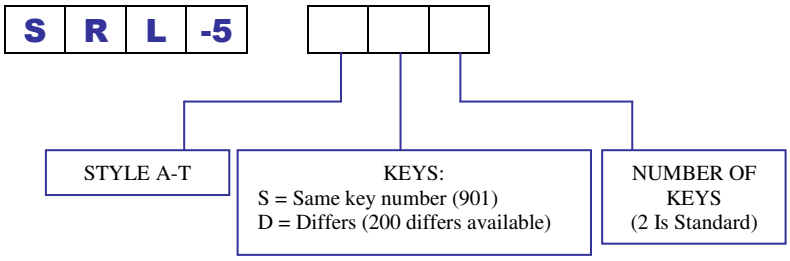
OPTIONAL EXTRAS

Moulded Bezel for Parallel Lock Headed Versions



SUPPLIED LOOSE: ORDERING CODE SRL 02101

SRL LOCK SWITCH ORDER CODE



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

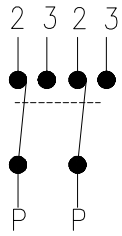
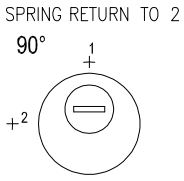
DSL SPRING RETURN LOCK SWITCHES

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	5A/115VAC 3A/30VDC
Life:	>10,000 Cycles
Operating Temperature:	-25ºC to +85 ºC
Proof Voltage:	1kV min. (Initial)
Contact Resistance:	<20 MΩ (Initial)
Flame Retardency:	UL94 V0
Lock Housing:	Brass - Chrome or Nickel Plated
Keys:	Nickel Silver

RoHS COMPLIANT

Switch Module approved to UL/CSA

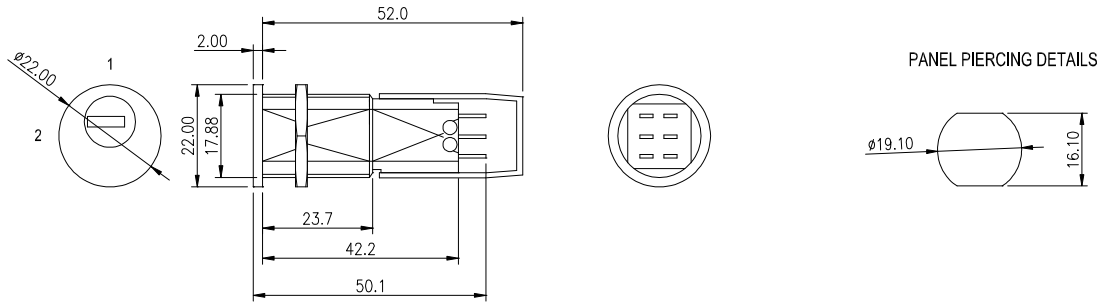
CIRCUITRY	TERMINAL LAYOUT VIEWED FROM REAR OF SWITCH	KEY WITHDRAWAL POSITIONS
2 POLE C / O		

GENERAL FEATURES

- Over 15000 key combinations – keys to differ
- Key –operated Lock with dimpled 6 pin lock
- Lock and switch mounted from front of panel
- Common keys available – keys to pass
- Solder terminals
- Two keys per lock. Additional keys to order.
- Supplied with removable plastic shroud over switch terminals

DSL-6 ORDER C0DES			
SWITCH	KEY	POSITION IN WHICH KEY FREE	ORDER CODES
2 POLE C/O	DIFFERS	POSITION 2	DSL-6-S-D
2 POLE C/O	SAME	POSITION 2	DSL-6-S-S

LOCK TYPE: BRASS Lock 6 pin – low profile or with decorative panel ring.
LOCK MOVEMENT: 90º Step
LOCK COMBINATIONS: Over 15000 differ or all pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock either way up).
MASTER KEY SYSTEM AVAILABLE: No
MAXIMUM PANEL THICKNESS: 15mm.
ASSEMBLY WEIGHT: 90 grams



DSL LOCKSWITCH WITH MICRO-SWITCH

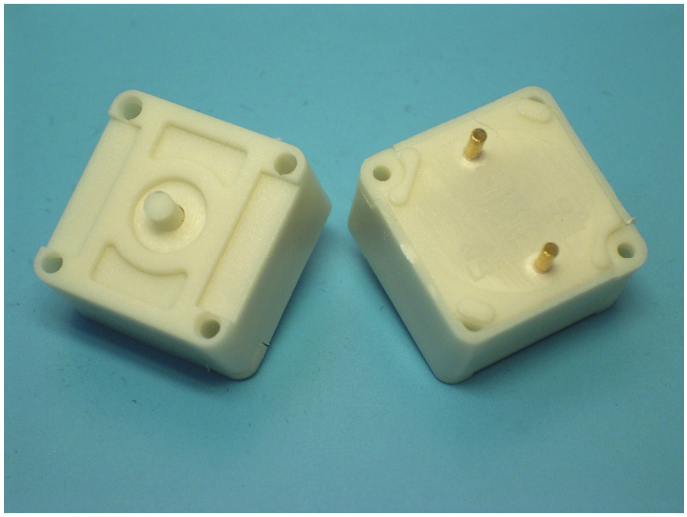
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood Rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk / www.lorlin.co.uk

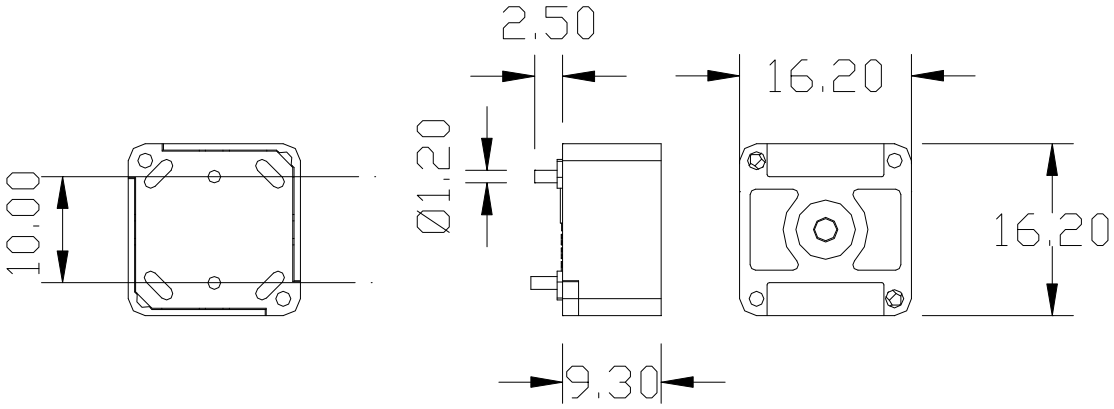
1745-SIGNAL PUSH TO MAKE SWITCH - MOMENTARY

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Rating: Momentary	1.0mA @ 24V DC
Life:	>500,000 Cycles
Operating Temperature:	-25 ° C to +100 ° C
Insulation Resistance:	>999 Megohms at 500V DC (Initial)
Contact Momentary	Push to Make
Switch Housing:	Polyamide 6.6 G.F. V0 Rated
Switch Wafer:	Polyamide 6.6 G.F. V0 Rated
Switch Plunger:	Polyamide 6.6 G.F. V0 Rated
Contacts: Momentary	Silver Cadmium Ox + Gold plate
Terminals	Brass CZ108 Sn Plated

ROHS COMPLAINT

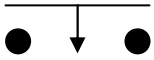




SWITCH MODULE MOMENTARY MAKE

ORDERING CODE

			SWITCH CONFIGURATION	
	ORDERING CODE		TERMINAL	TERMINAL CONFIG
MOMENTARY PUSH TO MAKE				
	1745-533SAL		PINS	



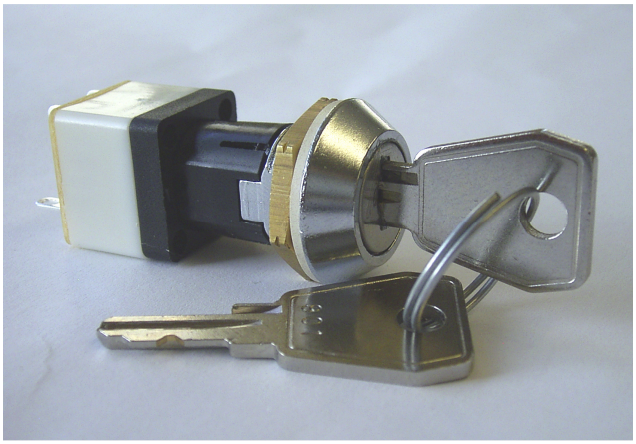
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 723919 E-mail Lorlin@btconnect.com / www.lorlin.co.uk

WRLM MAINS LOCK SWITCHES

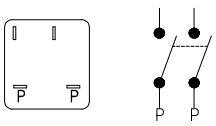
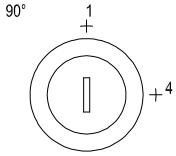
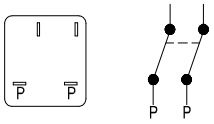
GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	4/80A @250V ac. R/C
Life:	>15,000 Cycles
Operating Temperature:	-25ºC to +85 ºC
Proof Voltage:	3kV min. (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20 MΩ (Initial)
Flame Retardency:	UL94 V0
Switch contacts:	Silver Cadmium Oxide
Switch Chamber:	Polyamide 6.6 GF V0 Rated
Tag Panel:	SRBP
Terminals:	Brass CZ108 Ag Plated
Lock Housing:	Zinc Alloy Bright Chrome Plated
Keys per lock:	2 off - Brass Ni Plated

RoHS COMPLIANT



Switch Module ENEC approved to EN61058 by DEMKO
ASSEMBLY IP66 / IP67 RATED

CIRCUITRY	TERMINAL LAYOUT VIEWED FROM REAR OF SWITCH	KEY WITHDRAWAL POSITIONS
2 POLE OFF-ON		
2 POLE ON-OFF (NORMALLY CLOSED)		

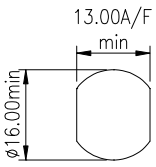
GENERAL FEATURES

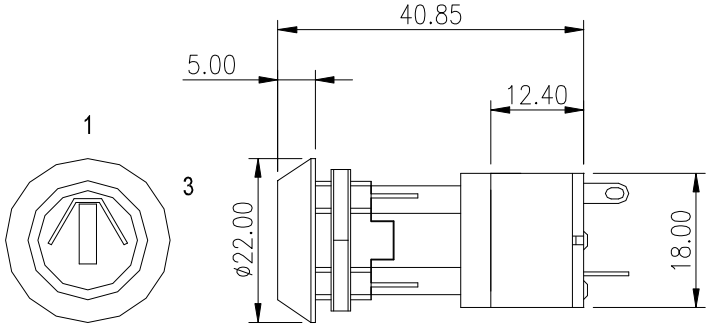
- Made in UK.
- Miniature key –operated Lock
- Up to 200 key combinations - keys to differ
- Common keys available – keys to pass
- Two part construction. The lock is inserted into the panel from the front. The mains switch module snaps-on, from the rear of the panel.
- Standard solder terminals (Printed circuit terminals optional – add /P to part number).
- For continued exterior use lubricate lock regularly
- Snap on switch module
- M16 earth tag available as an optional extra

WRLM ORDER C0DES			
SWITCH	KEY	POSITION IN WHICH KEY FREE	Tapered lock Head Order-codes
2 POLE OFF – ON	DIFFERS DIFFERS	0º and 90º (1+4) 0º only (1)	WRLM -5-Q-D WRLM -5-S-D
2 POLE OFF –ON	SAME SAME	0º and 90º (1+4) 0º only (1)	WRLM -5-Q-S WRLM -5-S-S
2 POLE ON-OFF	DIFFERS DIFFERS	0º and 90º (1+4) 0º only (1)	WRLM -5-R-D WRLM -5-T-D
2 POLE ON-OFF	SAME SAME	0º and 90º (1+4) 0º only (1)	WRLM -5-R-S WRLM-5-T-S

LOCK TYPE: 5 Disc.
LOCK MOVEMENT: 90º
LOCK COMBINATIONS: 200 differs or all to pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock either way up).
MASTER KEY SYSTEM AVAILABLE: No
MAXIMUM PANEL THICKNESS: 4.5mm.
NUMBER OF KEYS: 2

PANEL PIERCING DETAILS





TAPERED LOCK HEAD

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@lorliln.co.uk / www.lorlin.co.uk

WRLCKB LOCK SWITCHES

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	150mA @ 250V ac/dc resistive load
Life:	>10,000 Cycles
Operating Temperature:	-30ºC to +85 ºC
Proof Voltage:	1,500Vac (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20mΩ (initial)
Housing Material:	Polyamide 6.6 G.F. V0 Rated
Wafer Material:	Polyamide 6.6 G.F. V0 Rated
Contact/Terminal Material:	Brass CZ108 Ag Plated
Lock Housing:	Zinc Alloy Bright Cr Plated
Lock Type:	5 Disc
Std. Qty. of Keys per lock:	2 Brass - Ni Plated

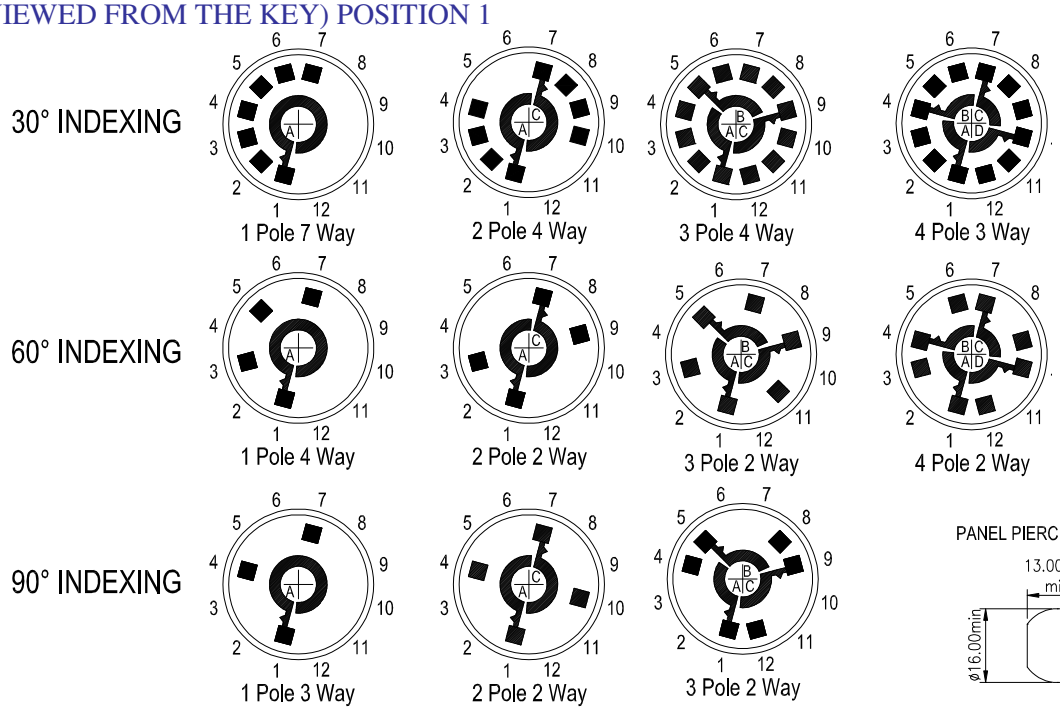
IP67 INGRESS PROTECTION

GENERAL FEATURES

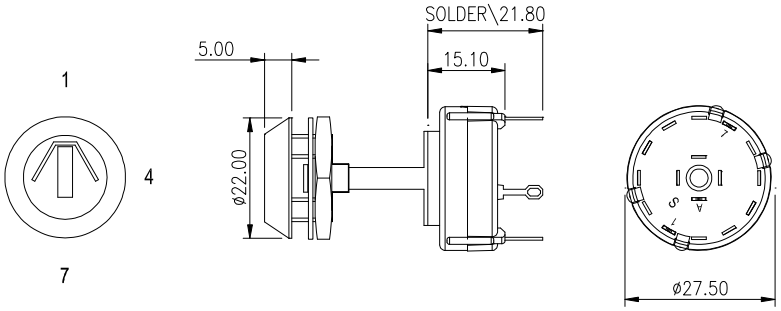
- Made in UK.
- Moulded Single Wafer Lock switch.
- Two part construction. The lock is inserted into the panel from the front. The CK module bracketted, assembled from the rear of the panel.
- All contacts are non-shorting (BBM).
- Solder or printed circuit terminals.
- Keys removable at 60º or 90º angles
- Panel thickness 1-2mm.
- Switch indexed 30º, 60º or 90º.
- Two keys per lock. Additional keys to order.
- Keys to pass (common combination) or 200 differ (different combinations)
- Key type flat, double entry (key can be inserted into the lock either way up)

CK LOCK SWITCH MODULE TERMINAL LAYOUTS

(VIEWED FROM THE KEY) POSITION 1



PANEL PIERCING DETAILS



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

WRLCKB LOCK SWITCHES

BASIC PART No.	SWITCH POLES	SWITCH OUTPUTS	TOTAL MOVEMENT	MODULE INDEXING	KEY WITHDRAWAL POSITIONS
WRLCKB-30-13-*-A	1	3	60°	30º	1 ONLY
WRLCKB-30-13-*-B	1	3	60°	30º	1 , 3
WRLCKB-30-23-*-A	2	3	60°	30º	1 ONLY
WRLCKB-30-23-*-B	2	3	60°	30º	1 , 3
WRLCKB-30-33-*-A	3	3	60°	30º	1 ONLY
WRLCKB-30-33-*-B	3	3	60°	30º	1 , 3
WRLCKB-30-43-*-A	4	3	60°	30º	1 ONLY
WRLCKB-30-43-*-B	4	3	60º	30°	1 , 3
WRLCKB-30-14-*-A	1	4	90º	30º	1 ONLY
WRLCKB-30-14-*-C	1	4	90º	30º	1 , 4
WRLCKB-30-24-*-A	2	4	90º	30º	1 ONLY
WRLCKB-30-24-*-C	2	4	90º	30º	1 , 4
WRLCKB-30-34-*-A	3	4	90º	30º	1 ONLY
WRLCKB-30-34-*-C	3	4	90º	30°	1 , 4
WRLCKB-30-17-*-A	1	7	180º	30°	1 ONLY
WRLCKB-30-17-*-C	1	7	180º	30°	1 , 4
WRLCKB-30-17-*-D	1	7	180º	30°	1 , 4 , 7
WRLCKB-60-12-*-A	1	2	60°	60º	1 ONLY
WRLCKB-60-12-*-B	1	2	60°	60º	1 , 3
WRLCKB-60-22-*-A	2	2	60°	60º	1 ONLY
WRLCKB-60-22-*-B	2	2	60°	60º	1 , 3
WRLCKB-60-32-*-A	3	2	60°	60º	1 ONLY
WRLCKB-60-32-*-B	3	2	60°	60º	1 , 3
WRLCKB-60-42-*-A	4	2	60°	60º	1 ONLY
WRLCKB-60-42-*-B	4	2	60º	60°	1 , 3
WRLCKB-60-14-*-A	1	4	180°	60°	1 ONLY
WRLCKB-60-14-*-E	1	4	180°	60°	1 , 7
WRLCKB-90-12-*-A	1	2	90°	90º	1 ONLY
WRLCKB-90-12-*-C	1	2	90°	90º	1 , 4
WRLCKB-90-22-*-A	2	2	90°	90º	1 ONLY
WRLCKB-90-22-*-C	2	2	90°	90º	1 , 4
WRLCKB-90-32-*-A	3	2	90°	90º	1 ONLY
WRLCKB-90-32-*-C	3	2	90°	90º	1 , 4
WRLCKB-90-13-*-A	1	3	180°	90º	1 ONLY
WRLCKB-90-13-*-D	1	3	180º	90°	1 , 4 , 7

*	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	

REPLACE * IN BASIC CODE WITH LETTER FROM ABOVE TABLE. MBB ONLY IN 30°

SAME KEY NUMBER 901 IS SUPPLIED AS STANDARD.

TO REQUEST DIFFER KEY PLEASE ADD ‘D’ TO END OF PART NUMBER. i.e. WRLCKB-90-13-A-D-D

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

WRL SEALED LOCK SWITCHES

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	1A @ 230Vac
(Switching Resistive load):	5A @ 115Vac
No Mains Isolation	3A @ 50Vdc
Current Carrying Capacity	5A non switching
Life:	>10,000 Cycles
Operating Temperature:	-20ºC to +65 ºC
Proof Voltage:	750 Vdc (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20 mΩ (Initial)
Lock Type:	5 Disc
Std. Qty. of Keys per Lock:	2 Brass - Ni Plated
Contact Material:	Brass CZ108 Ag Plated
Moulding Material:	Polyamide 6.6 UL94V0 Rated
Lock Housing:	Zinc Alloy Bright Cr Plated

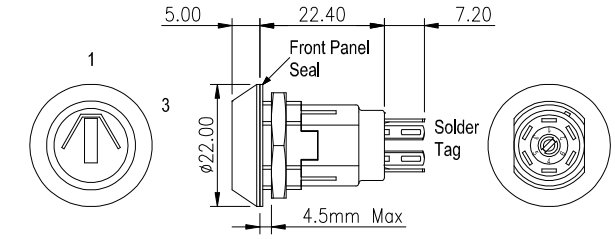
RoHS COMPLIANT

GENERAL FEATURES

- Made in UK.
- Miniature key-operated Lock switch.
- Single or Double pole
- Up to 200 key combinations – keys to differ.
- Common keys available – keys to pass.
- Keys are double entry (they can be inserted into the lock either way up).
- Occupies small panel area.
- Easily assembled through front of equipment panel.
- Rear projection less than 30mm from panel.
- M16 Earthing tag available as an optional extra.
- For continued exterior use lubricate with oil regularly
- Suitable for Marine Environment exposure to Severity 1(EN60068-2-52)

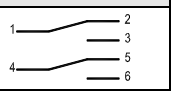
DOUBLE POLE LOCK SWITCH

Tapered Lock Head 60º Indexing



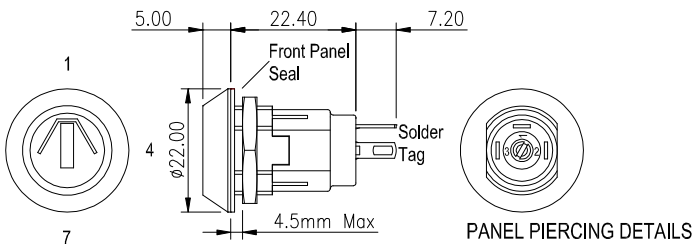
Key Withdrawal Positions

SEVERITY ONE SALT MIST CYCLE TESTED

BASIC PART No.	TOTAL MOVEMENT	INDEXING	KEY WITHDRAWAL POSITIONS	SWITCH CONFIGURATION
WRL-5-L	60º	60º	1,3	
WRL-5-M	60º	60º	1 ONLY	

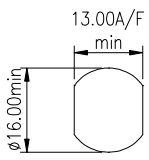
SINGLE POLE LOCK SWITCH

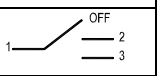
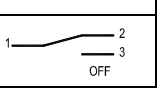
Tapered Lock Head 90º Indexing



Key Withdrawal Positions

PANEL PIERCING DETAILS



BASIC PART No.	TOTAL MOVEMENT	INDEXING	KEY WITHDRAWAL POSITIONS	SWITCH CONFIGURATION
WRL-5-D	90º	90º	1,4	
WRL-5-E	90º	90º	1 ONLY	
WRL-5-F	180º	90º	1,4,7	
WRL-5-P	180º	90º	1,4,7	

W	R	L	-5			

STYLE A-T

KEYS:
S = Same key number (901)
D = Differs (200 differs available)

NUMBER OF KEYS
(2 Is Standard)

WRL LOCK SWITCH CODE

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

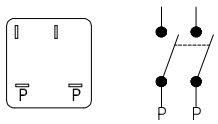
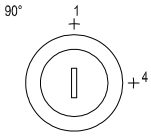
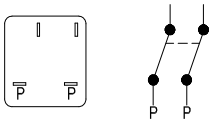
SRLM MAINS LOCK SWITCHES

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	4/80A @250V ac. R/C
Life:	>15,000 Cycles
Operating Temperature:	-25ºC to +85 ºC
Proof Voltage:	3kV min. (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20 MΩ (Initial)
Flame Retardency:	UL94 V0
Switch contacts:	Silver Cadmium Oxide
Switch Chamber:	Polyamide 6.6 G.F. V0 Rated
Tag Panel:	SRBP
Terminals:	Brass CZ108 Ag Plated
Lock Housing:	Zinc Alloy Bright Chrome Plated
Keys:	Mild Steel Ni Plated

RoHS COMPLIANT

Switch Module ENEC approved to EN61058 by VDE

CIRCUITRY	TERMINAL LAYOUT VIEWED FROM REAR OF SWITCH	KEY WITHDRAWAL POSITIONS
2 POLE OFF-ON		
2 POLE ON-OFF (NORMALLY CLOSED)		

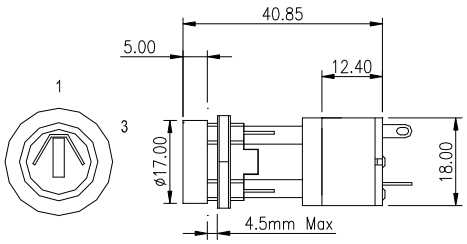
GENERAL FEATURES

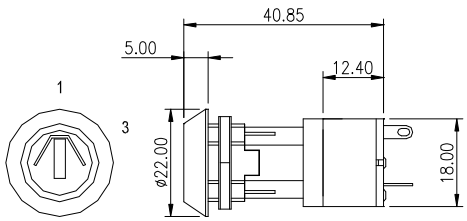
- Made in UK.
- Miniature key –operated Lock
- Up to 200 key combinations - keys to differ
- Common keys available – keys to pass
- Two part construction. The lock is inserted into the panel from the front. The mains switch module snaps-on, from the rear of the panel.
- Standard solder terminals (Printed circuit terminals optional – add /P to part number).
- Two keys per lock. Additional keys to order.
- Snap on switch module

SRLM ORDER C0DES				
SWITCH	KEY	POSITION IN WHICH KEY FREE	Tapered lock Head Order-codes	Parallel lock Head Order-codes
2 POLE OFF – ON	DIFFERS DIFFERS	0º and 90º (1+4) 0º only (1)	SRLM -5-Q-D SRLM -5-S-D	SRLM -5-U-D SRLM -5-W-D
2 POLE OFF –ON	SAME SAME	0º and 90º (1+4) 0º only (1)	SRLM -5-Q-S SRLM -5-S-S	SRLM -5-U-S SRLM -5-W-S
2 POLE ON-OFF	DIFFERS DIFFERS	0º and 90º (1+4) 0º only (1)	SRLM -5-R-D SRLM -5-T-D	SRLM -5-V-D SRLM -5-X-D
2 POLE ON-OFF	SAME SAME	0º and 90º (1+4) 0º only (1)	SRLM -5-R-S SRLM-5-T-S	SRLM -5-V-S SRLM-5-X-S

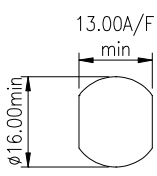
LOCK TYPE: 5 Disc.
LOCK MOVEMENT: 90º Steps.
LOCK COMBINATIONS: 200 differs or all to pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock either way up).
MASTER KEY SYSTEM AVAILABLE: No
MAXIMUM PANEL THICKNESS: 3.4mm.

SRLM LOCKSWITCH WITH SNAP-ON MS MODULE





PANEL PIERCING DETAILS



PARALLEL LOCK HEAD TAPERED LOCK HEAD

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@lorliln.co.uk / www.lorlin.co.uk

SRLCK LOCK SWITCHES

RoHS COMPLIANT

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

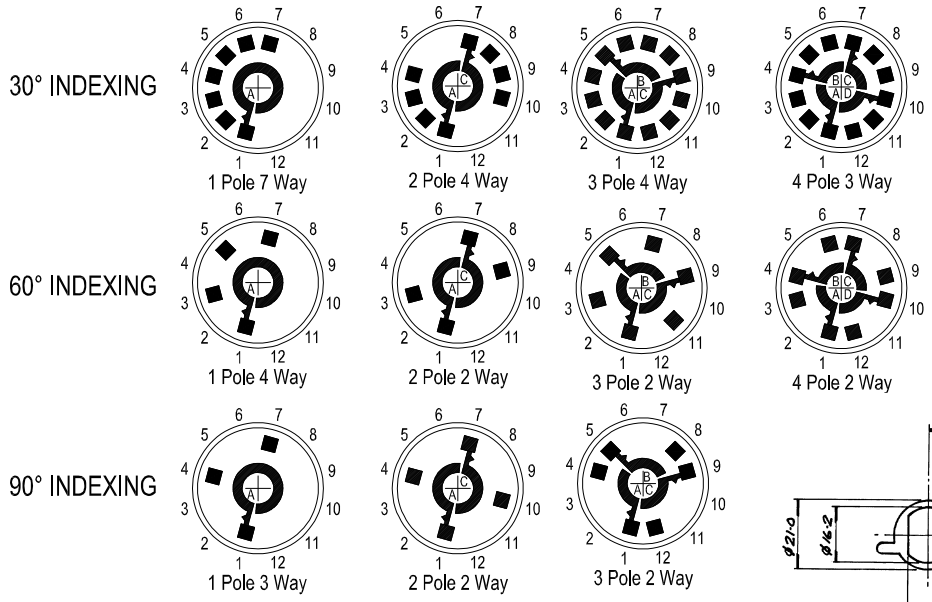
Switch Rating:	150mA @ 250V ac/dc resistive load
Life:	>10,000 Cycles
Operating Temperature:	-30ºC to +85 ºC
Proof Voltage:	1,500Vac (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20mΩ (initial)
Housing Material:	Polycarbonate
Wafer Material:	Polyamide 6.6 G.F. V0 Rated
Contact/Terminal Material:	Brass CZ108 Ag Plated
Lock Housing:	Zinc Alloy Bright Cr Plated
Lock Type:	5 Disc
Std. Qty. of Keys per lock:	2 Brass - Ni Plated

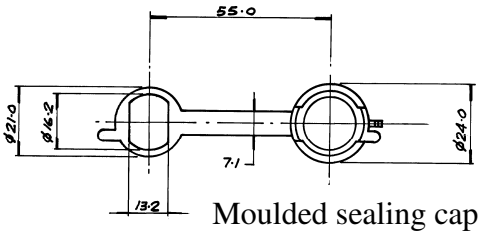
GENERAL FEATURES

- Made in UK.
- Moulded Single Wafer Lock switch.
- Two part construction. The lock is inserted into the panel from the front. The CK module snap-on, from the rear of the panel.
- All contacts are non-shorting (BBM).
- Solder or printed circuit terminals.
- Keys removable at 60º or 90º angles
- Max panel thickness 3mm.
- Switch indexed 30º, 60º or 90º.
- Two keys per lock. Additional keys to order.
- Keys to pass (common combination) or 200 differ (different combinations)
- Key type flat, double entry (key can be inserted into the lock either way up)

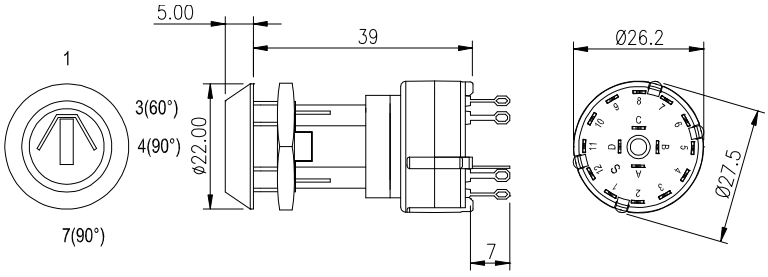
CK LOCK SWITCH MODULE TERMINAL LAYOUTS

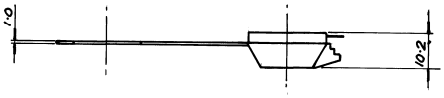
(VIEWED FROM THE KEY) POSITION 1



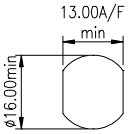


Moulded sealing cap





PANEL PIERCING DETAILS



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

SRLCK LOCK SWITCHES

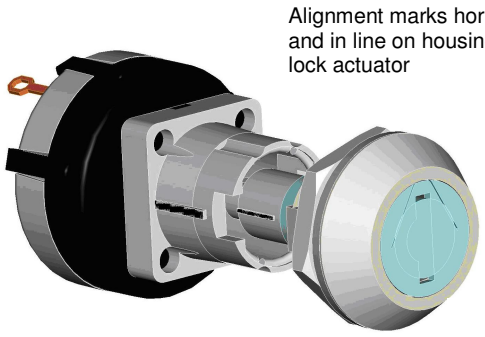
BASIC PART No.	SWITCH POLES	SWITCH OUTPUTS	TOTAL MOVEMENT	MODULE INDEXING	KEY WITHDRAWAL POSITIONS
SRLCK-30-13-*-A	1	3	60°	30º	1 ONLY
SRLCK-30-13-*-B	1	3	60°	30º	1 , 3
SRLCK-30-23-*-A	2	3	60°	30º	1 ONLY
SRLCK-30-23-*-B	2	3	60°	30º	1 , 3
SRLCK-30-33-*-A	3	3	60°	30º	1 ONLY
SRLCK-30-33-*-B	3	3	60°	30º	1 , 3
SRLCK-30-43-*-A	4	3	60°	30º	1 ONLY
SRLCK-30-43-*-B	4	3	60º	30°	1 , 3
SRLCK-30-14-*-A	1	4	90º	30º	1 ONLY
SRLCK-30-14-*-C	1	4	90º	30º	1 , 4
SRLCK-30-24-*-A	2	4	90º	30º	1 ONLY
SRLCK-30-24-*-C	2	4	90º	30º	1 , 4
SRLCK-30-34-*-A	3	4	90º	30º	1 ONLY
SRLCK-30-34-*-C	3	4	90º	30°	1 , 4
SRLCK-30-17-*-A	1	7	180º	30°	1 ONLY
SRLCK-30-17-*-C	1	7	180º	30°	1 , 4
SRLCK-30-17-*-D	1	7	180º	30°	1 , 4 , 7
SRLCK-60-12-*-A	1	2	60°	60º	1 ONLY
SRLCK-60-12-*-B	1	2	60°	60º	1 , 3
SRLCK-60-22-*-A	2	2	60°	60º	1 ONLY
SRLCK-60-22-*-B	2	2	60°	60º	1 , 3
SRLCK-60-32-*-A	3	2	60°	60º	1 ONLY
SRLCK-60-32-*-B	3	2	60°	60º	1 , 3
SRLCK-60-42-*-A	4	2	60°	60º	1 ONLY
SRLCK-60-42-*-B	4	2	60º	60°	1 , 3
SRLCK-60-14-*-A	1	4	180°	60°	1 ONLY
SRLCK-60-14-*-E	1	4	180°	60°	1 , 7
SRLCK-90-12-*-A	1	2	90°	90º	1 ONLY
SRLCK-90-12-*-C	1	2	90°	90º	1 , 4
SRLCK-90-22-*-A	2	2	90°	90º	1 ONLY
SRLCK-90-22-*-C	2	2	90°	90º	1 , 4
SRLCK-90-32-*-A	3	2	90°	90º	1 ONLY
SRLCK-90-32-*-C	3	2	90°	90º	1 , 4
SRLCK-90-13-*-A	1	3	180°	90º	1 ONLY
SRLCK-90-13-*-D	1	3	180º	90°	1 , 4 , 7

*	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	

REPLACE * IN BASIC CODE WITH LETTER FROM ABOVE TABLE. MBB ONLY IN 30°

SAME KEY NUMBER 901 IS SUPPLIED AS STANDARD.
TO REQUEST DIFFER KEY PLEASE ADD ‘D’ TO END OF PART NUMBER. i.e.
SRLCKB-90-13-A-D-D

ASSEMBLY ALIGNMENT DETAILS



Alignment marks horizontal and in line on housing and lock actuator

Key vertical

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

SRLCKB LOCK SWITCHES

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	150mA @ 250V ac/dc resistive load
Life:	>10,000 Cycles
Operating Temperature:	-30ºC to +85 ºC
Proof Voltage:	1,500Vac (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20mΩ (initial)
Housing Material:	Polyamide 6.6 G.F. V0 Rated
Wafer Material:	Polyamide 6.6 G.F. V0 Rated
Contact/Terminal Material:	Brass CZ108 Ag Plated
Lock Housing:	Zinc Alloy Bright Cr Plated
Lock Type:	5 Disc
Std. Qty. of Keys per lock:	2 Brass - Ni Plated

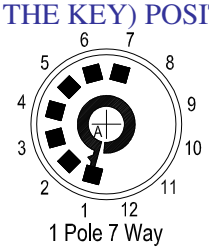
GENERAL FEATURES

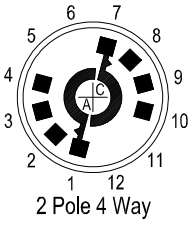
- Made in UK.
- Moulded Single Wafer Lock switch.
- Two part construction. The lock is inserted into the panel from the front. The CK module bracketted, assembled from the rear of the panel.
- All contacts are non-shorting (BBM).
- Solder or printed circuit terminals.
- Keys removable at 60º or 90º angles
- Panel thickness 1-2mm.
- Switch indexed 30º, 60º or 90º.
- Two keys per lock. Additional keys to order.
- Keys to pass (common combination) or 200 differ (different combinations)
- Key type flat, double entry (key can be inserted into the lock either way up)

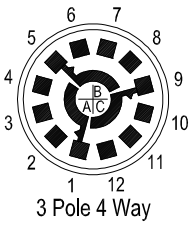
CK LOCK SWITCH MODULE TERMINAL LAYOUTS

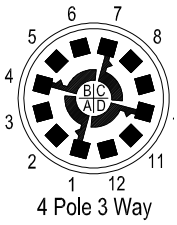
(VIEWED FROM THE KEY) POSITION 1

30° INDEXING

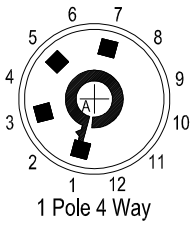


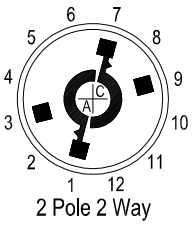


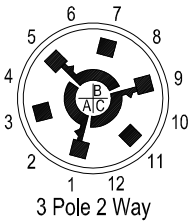


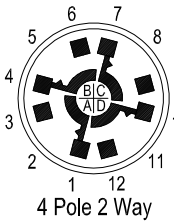


60° INDEXING

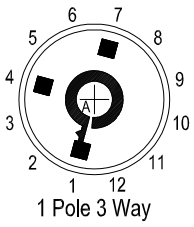


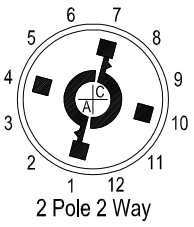


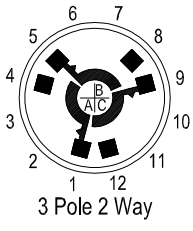




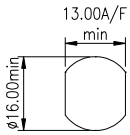
90° INDEXING

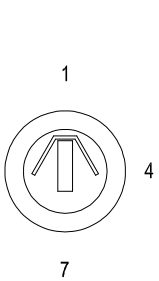


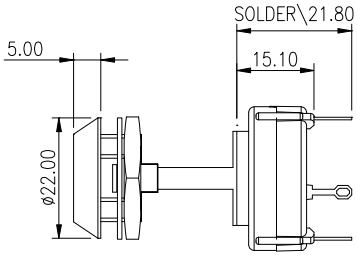


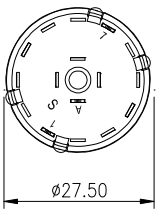


PANEL PIERCING DETAILS









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

SRLCKB LOCK SWITCHES

BASIC PART No.	SWITCH POLES	SWITCH OUTPUTS	TOTAL MOVEMENT	MODULE INDEXING	KEY WITHDRAWAL POSITIONS
SRLCKB-30-13-*-A	1	3	60°	30º	1 ONLY
SRLCKB-30-13-*-B	1	3	60°	30º	1 , 3
SRLCKB-30-23-*-A	2	3	60°	30º	1 ONLY
SRLCKB-30-23-*-B	2	3	60°	30º	1 , 3
SRLCKB-30-33-*-A	3	3	60°	30º	1 ONLY
SRLCKB-30-33-*-B	3	3	60°	30º	1 , 3
SRLCKB-30-43-*-A	4	3	60°	30º	1 ONLY
SRLCKB-30-43-*-B	4	3	60º	30°	1 , 3
SRLCKB-30-14-*-A	1	4	90º	30º	1 ONLY
SRLCKB-30-14-*-C	1	4	90º	30º	1 , 4
SRLCKB-30-24-*-A	2	4	90º	30º	1 ONLY
SRLCKB-30-24-*-C	2	4	90º	30º	1 , 4
SRLCKB-30-34-*-A	3	4	90º	30º	1 ONLY
SRLCKB-30-34-*-C	3	4	90º	30°	1 , 4
SRLCKB-30-17-*-A	1	7	180º	30°	1 ONLY
SRLCKB-30-17-*-C	1	7	180º	30°	1 , 4
SRLCKB-30-17-*-D	1	7	180º	30°	1 , 4 , 7
SRLCKB-60-12-*-A	1	2	60°	60º	1 ONLY
SRLCKB-60-12-*-B	1	2	60°	60º	1 , 3
SRLCKB-60-22-*-A	2	2	60°	60º	1 ONLY
SRLCKB-60-22-*-B	2	2	60°	60º	1 , 3
SRLCKB-60-32-*-A	3	2	60°	60º	1 ONLY
SRLCKB-60-32-*-B	3	2	60°	60º	1 , 3
SRLCKB-60-42-*-A	4	2	60°	60º	1 ONLY
SRLCKB-60-42-*-B	4	2	60º	60°	1 , 3
SRLCKB-60-14-*-A	1	4	180°	60°	1 ONLY
SRLCKB-60-14-*-E	1	4	180°	60°	1 , 7
SRLCKB-90-12-*-A	1	2	90°	90º	1 ONLY
SRLCKB-90-12-*-C	1	2	90°	90º	1 , 4
SRLCKB-90-22-*-A	2	2	90°	90º	1 ONLY
SRLCKB-90-22-*-C	2	2	90°	90º	1 , 4
SRLCKB-90-32-*-A	3	2	90°	90º	1 ONLY
SRLCKB-90-32-*-C	3	2	90°	90º	1 , 4
SRLCKB-90-13-*-A	1	3	180°	90º	1 ONLY
SRLCKB-90-13-*-D	1	3	180º	90°	1 , 4 , 7

*	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	

REPLACE * IN BASIC CODE WITH LETTER FROM ABOVE TABLE. MBB ONLY IN 30°

SAME KEY NUMBER 901 IS SUPPLIED AS STANDARD.

TO REQUEST DIFFER KEY PLEASE ADD ‘D’ TO END OF PART NUMBER. i.e. SRLCKB-90-13-A-D-D

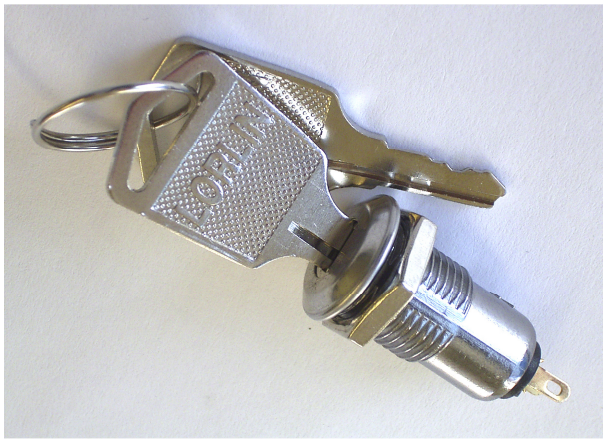
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk

SKL KEY LOCK SWITCH

RoHS COMPLIANT

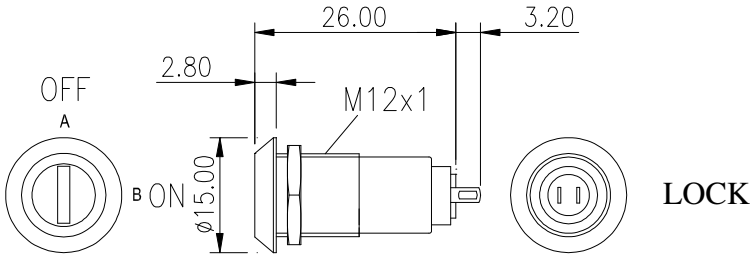
GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating	0.5A @ 24Vac/dc resistive
Life:	>10,000 Cycles
Proof voltage:	1000VAC 1 minute (initial)
Insulation Resistance:	>500MΩ min at 500Vdc(initial)
Contact Resistance:	<20 mΩ max

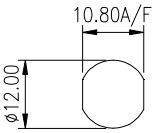


GENERAL FEATURES

- Zinc alloy die cast housing
- Stainless steel capped bezel
- Single pole, single throw lock switch, 90º indexing.
- Bright chrome plated housing
- Brass keys, nickel plated
- Key insertion/removal in both positions as required
- Radial cylinder with 4 pin tumblers.
- Low Security.
- 10 Differ Key Combination



PANEL PIERCING DETAILS



ORDERING CODE	KEY	KEY WITHDRAWAL	KEY TRAVEL	SWITCH OFF - ON
SKL–12–A–S-2	SAME	A & B	90º	
SKL-12-B-S-2	SAME	A ONLY	90º	
SKL-12-A-D-2	DIFFER	A & B	90º	
SKL-12-B-D-2	DIFFER	A ONLY	90°	

Same Key Ref Key 134 (SKL)

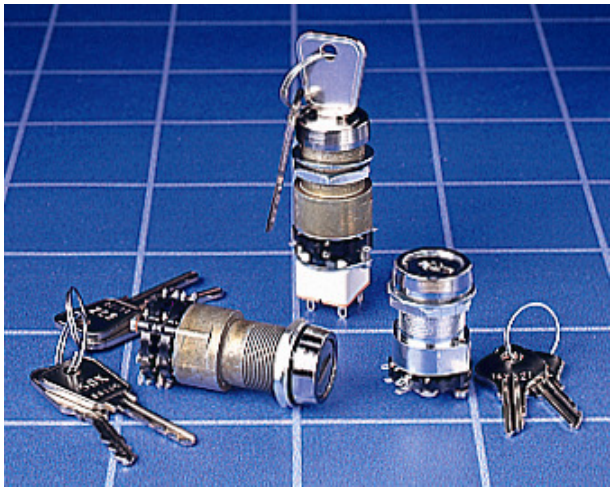
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood Rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk / www.lorlin.co.uk

RA LOCK SWITCHES

RoHS COMPLIANT

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	150mA @ 250V ac/dc
(resistive load only)	350mA @ 110V ac/dc
	1A @ 12V ac/dc
Life:	>10,000 Cycles
Operating Temperature:	-30ºC to +85 ºC
Proof Voltage:	1,000Vac (Initial)
Insulation Resistance:	>999MΩ at 500Vdc (Initial)
Contact Resistance:	<20 mΩ (Initial)
Operating Torque (nominal):	7.2 cNm
End Stop Torque (nominal):	1.2 Nm
Wafer:	Polyphenylene Sulphide (PPS)
Lock Housing:	Zinc Alloy Bright Cr Plated
Contact/Terminal Material:	Brass, CZ108 Ag Plated
Keys:	Mild Steel Ni Plated



GENERAL FEATURES

- Made in UK.
- Multi-wafer Lock switch.
- Switch indexed 30º, 45º, 60º or 90º.
- Contacts are non-shorting (BBM) or shorting (MBB).
- Keys removable at 60º or 90º angles.
- Two keys per lock. Additional keys to order.
- Keys to pass (common combination) or differ.
- Solder or printed circuit terminals.
- Two part construction. The lock is inserted into the panel from the rear and secured by screwing on the bezel from the front of the panel.

STANDARD CIRCUITRY AND KEY WITHDRAWAL POSITIONS

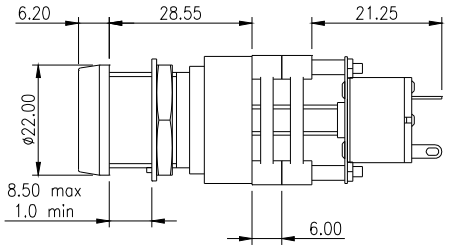
INDEXING ANGLE	STANDARD CIRCUITS NON SHORTING CONTACTS SOLDER TERMINALS						TOTAL SWITCH MOVEMENT	KEY FREE POSITIONS				
								KRA	5-RAL (200 KEY DIFFERS)		8-RAL (2000 KEY DIFFERS)	
	1 POLE	2 POLE	3 POLE	4 POLE	5 POLE	6 POLE		(2000 KEY DIFFERS) (KEY FREE 60º STEPS)	-001 (KEY FREE 90º STEPS)	-002 (KEY FREE 60º STEPS)	-001 (KEY FREE 90º STEPS)	-002 (KEY FREE 60º STEPS)
30º	2 WAY	2 WAY	2 WAY	2 WAY	2 WAY	2 WAY	0º-30º	1	1		1	
	3 WAY	3 WAY	3 WAY	3 WAY	3 WAY		0º-60º	1+3	1	1+3	1	1+3
	4 WAY	4 WAY	4 WAY	4 WAY			0º-90º		1/1+4		1/1+4	
	5 WAY	5 WAY	5 WAY				0º-120º	1+3+5	1/1+4	1+3+5	1/1+4	1+3+5
	6 WAY	6 WAY					0º-150º		1/1+4		1/1+4	
	7 WAY	7 WAY					0º-180º	1+3+5+7	1+7/1+4+7	1+3+5+7	1+7/1+4+7	1+3+5+7
	8 WAY						0º-210º					
	9 WAY						0º-240º	1+3+5+7+9		1+3+5+7+9		1+3+5+7+9
	10 WAY						0º-270º		1+4+7+10		1+4+7+10	
	11 WAY						0º-300º					
	12 WAY						0º-330º					
	12 WAY						0º-360º No Stop	1+3+5+7+9+11	1+7/1+4+7+10	1+3+5+7+9+11	1+7/1+4+7+10	1+3+5+7+9+11
45º	2 WAY	2 WAY	2 WAY	2 WAY			0º-45º		1		1	
	3 WAY	3 WAY	3 WAY	3 WAY			0º-90º		1/1+4		1/1+4	
	4 WAY	4 WAY					0º-135º					
	5 WAY	5 WAY					0º-180º	1+7	1+7/1+4+7		1+7/1+4+7	
	6 WAY	6 WAY					0º-225º					
	7 WAY	7 WAY					0º-270º		1+4+7+10		1+4+7+10	
	8 WAY						0º-315º					
	8 WAY						0º-360º No Stop	1+7	1+4+7+10		1+4+7+10	
60º	2 WAY	2 WAY	2 WAY	2 WAY	2 WAY		0º-60º	1/1+3	1	1+3	1	1+3
	3 WAY	3 WAY	3 WAY	3 WAY			0º-120º	1+3+5	1	1+3+5	1	1+3+5
	4 WAY	4 WAY					0º-180º	1+3+5+7	1+7/1+4+7	1+3+5+7	1+7/1+4+7	1+3+5+7
	5 WAY	5 WAY					0º-240º	1+3+5+7+9		1+3+5+7+9		1+3+5+7+9
	6 WAY	6 WAY					0º-300º					
	6 WAY	6 WAY		2 WAY			0º-360º No Stop	1+3+5+7+9+11	1+7/1+4+7+10	1+3+5+7+9+11	1+7/1+4+7+10	1+3+5+7+9+11
90º	2 WAY	2 WAY	2 WAY				0º-90º		1/1+4		1/1+4	
	3 WAY	3 WAY					0º-180º	1+7	1+7/1+4+7		1+7/1+4+7	
	4 WAY	4 WAY					0º-270º		1+7/1+4+7+10		1+7/1+4+7+10	
	4 WAY	4 WAY					0º-360º No Stop	1+7	1+7/1+4+7+10		1+7/1+4+7+10	

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

RA LOCK SWITCHES

MULTIWAFER RAL LOCKSWITCH

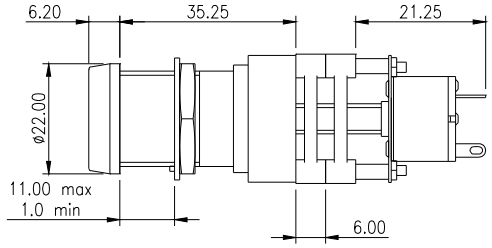
5-RAL-001 (Keys free at 90º intervals)
5-RAL-002 (Keys free at 60º intervals)



DESCRIPTION
LOCK TYPE: 5 Discs
LOCK MOVEMENT: 60º or 90º Steps.
LOCK COMBINATIONS: 200 differs or all to pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock only one way up).
MASTER KEY SYSTEM AVAILABLE: Yes.
MAXIMUM PANEL THICKNESS: 8.5mm.
MODULE INDEXING ANGLES: 30º, 45º, 60º, 90º
MAXIMUM NUMBER OF WAFERS: 6 or 2 plus 2 pole mains switch

MULTIWAFER RAL LOCKSWITCH

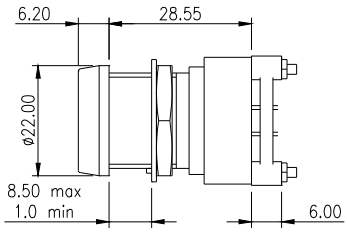
8-RAL-001 (Keys free at 90º intervals)
8-RAL-002 (Keys free at 60º intervals)



DESCRIPTION
LOCK TYPE: 8 Discs
LOCK MOVEMENT: 60º or 90º Steps.
LOCK COMBINATIONS: 2000 differs or all to pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock only one way up).
MASTER KEY SYSTEM AVAILABLE: Yes.
MAXIMUM PANEL THICKNESS: 11.0mm.
MODULE INDEXING ANGLES: 30º, 45º, 60º, 90º
MAXIMUM NUMBER OF WAFERS: 6 or 2 plus 2 pole mains switch

IMPULSION SINGLE WAFER RAL LOCKSWITCH

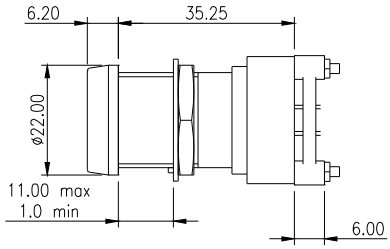
5-RAL-004
DOUBLE IMPULSION
5-RAL-005
SINGLE IMPULSION



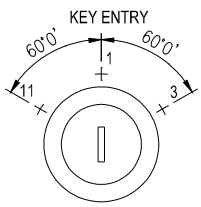
DESCRIPTION
LOCK TYPE: 5 Disc Impulsion
LOCK MOVEMENT: 60º.
LOCK COMBINATIONS: 200 differs or all to pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock only one way up).
MASTER KEY SYSTEM AVAILABLE: Yes.
MAXIMUM PANEL THICKNESS: 8.5mm.
MAXIMUM NUMBER OF WAFERS: 1

IMPULSION SINGLE WAFER RAL LOCKSWITCH 8 DISC

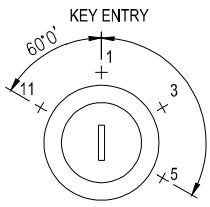
8-RAL-004
DOUBLE IMPULSION
8-RAL-005
SINGLE IMPULSION



DESCRIPTION
LOCK TYPE: 8 Disc Impulsion
LOCK MOVEMENT: 60º.
LOCK COMBINATIONS: 2000 differs or all to pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock only one way up).
MASTER KEY SYSTEM AVAILABLE: Yes.
MAXIMUM PANEL THICKNESS: 11.0mm.
MAXIMUM NUMBER OF WAFERS: 1



DOUBLE IMPULSION
5-RAL-004 8RAL-004
Indexing Movements Available
60º C.W and 60º A.C.W
60º C.W only. 60º A.C.W only
Key Free at key entry only. (PSN1)



SINGLE IMPULSION
5-RAL-005 8RAL-005
Indexing Movements Available
60º A.C.W (Impulsion) and 60º to 240º C.W (Non-Impulsion).
Key Free at positions 1, 3 and 5

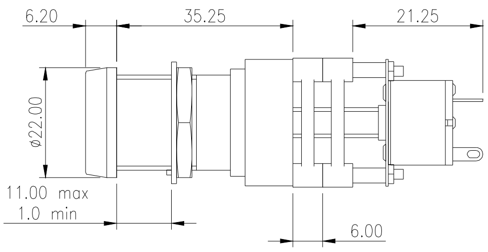
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk www.lorlin.co.uk

RA LOCK SWITCHES

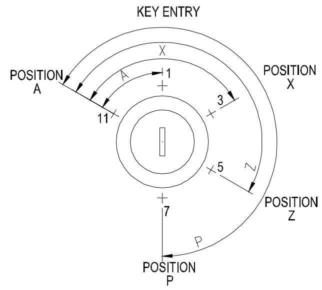
LIMITED ACCESS IMPULSION SINGLE WAFER
RAL LOCKSWITCH

8-RAL-003

Keys free at Key entry (PSN1)
& Position 'A' (PSN11) only.



DESCRIPTION
LOCK TYPE: 8 Disc
LOCK MOVEMENT: 60º.
LOCK COMBINATIONS: 50 different sets of 4 keys (A/XZ/P) per lock or 1 set of 4 keys to pass all locks.
KEY TYPE: Flat, double entry (key can be inserted into the lock only one way up).
MASTER KEY SYSTEM AVAILABLE: No.
MAXIMUM PANEL THICKNESS: 11.0mm.
MAXIMUM NUMBER OF WAFERS: 6



LOCK MOVEMENT DETAILS

Key 'A' – Movement 60º ACW from key entry
Key 'X' – Movement 60º ACW and 60º CW from key entry
Key 'Z' – Movement 60º ACW and 120º CW from key entry
Key 'P' – Movement 60º ACW and 180º CW from key entry
Key free available at key entry and Position 'A' only.

LOCK TYPE
5= 200 Key Differs
8 = 2000 Key Differs

KEY FREE INTERVALS
1 = 90º (001)
2 = 60º (002)
3 = 60º (003)
4 = 60º (004)
5 = 60º (005)

KEY CODE
S = Same key for all locks
D = Keys to differ between locks

SWITCH INDEX ANGLE
3 = 30º
4 = 45º
6 = 60º
9 = 90º

CONTACT
B = BBM Non Shorting
M = MMB shorting

NUMBER OF WAFERS
1 = 1 WAFERS
2 = 2 WAFERS
3 = 3 WAFERS
4 = 4 WAFERS
5 = 5 WAFERS
6 = 6 WAFERS
7 = 1+M/S
8 = 2+M/S
NOTE One wafer only for impulsion

TERMINATION
S = Solder Terminal
P = PCB terminal
T = PCB Pin

CONTACT PLATING
S = Silver Plated
G = Gold Plated
F = Gold Flash

MASTERED LOCKS
M = Yes
N = No

	R	A	L													

CODE LETTER	TOTAL LOCK MOVEMENT	KEY WITHDRAW POSITION	KEY FREE INCREMENTS 90º (001)	60º (002)	Impulsion 60º (004)	60º (005)
A	0º to 90º	1	X			
B	0º to 90º	1,4	X			
C	0º to 180º	1,7	X			
D	0º to 180º	1,4,7	X			
E	0º to 270º	1,4,7,10	X			
F	0º to 360º NO STOP	1,4,7,10	X			
G	0º to 60º	1,3		X		
H	0º to 120º	1,3,5		X		
J	0º to 180º	1,3,5,7		X		
K	0º to 240º	1,3,5,7,9		X		
L	0º to 360º NO STOP	1,3,5,7,9,11		X		
M	0º to 60º	1		X		
N	0º ← 60º	1			X	
P	300º → 0º	1			X	X
R	300º → 0 ← 60º	1			X	
S	300º → 0º TO 120º	1,3,5				X

CODE	INDEXING ANGLE	POLES PER WAFER
A	30º	1
B	30º	2
C	30º	3
D	30º	4
E	30º	5
F	30º	6
G	45º	1
H	45º	2
K	45º	3
L	45º	4
M	60º	1
N	60º	2
P	60º	3
R	60º	4
S	60º	5
T	90º	1
W	90º	2
X	90º	3
Y	90º	4
Z	To Drawing	

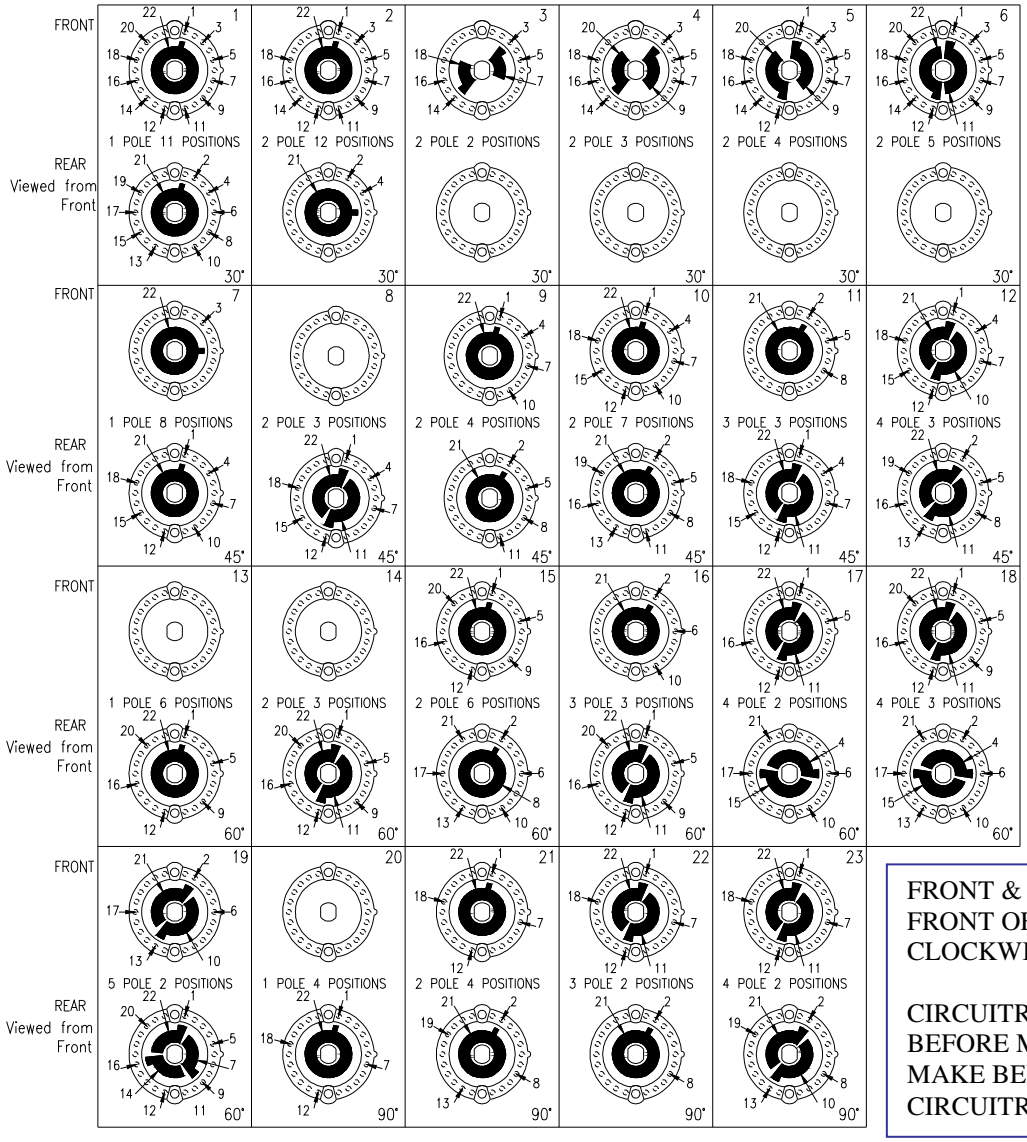
MAX POS PER WAFER
12
09
05
04
03
02
08
07
03
03
06
06
03
03
02
04
04
02
02
To Drawing

ORDERING CODE
Build your part number by filling in the empty boxes with the appropriate numbers and letter

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

RA LOCK SWITCHES

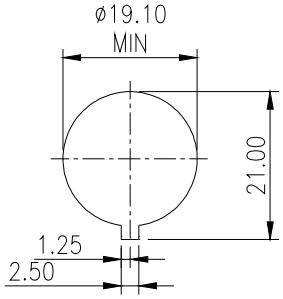
TYPICAL WAFER LAYOUTS 30º 45º 60º 90º



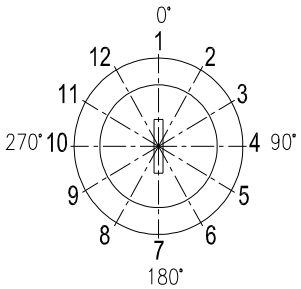
FRONT & REAR WAFERS VIEWED FROM FRONT OF SWITCH IN EXTREME COUNTER CLOCKWISE POSITION.

CIRCUITRY IS SHOWN HERE AS BREAK BEFORE MAKE (BBM – NON-SHORTING) BUT MAKE BEFORE BREAK (MBB- SHORTING) CIRCUITRY MAY ALSO BE SPECIFIED.

TYPICAL PANEL PIERCING DIMENSIONS



LOCK MOVEMENT DESCRIPTION



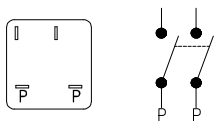
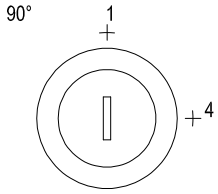
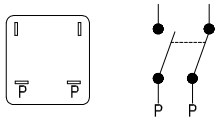
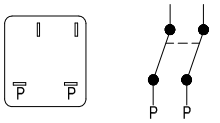
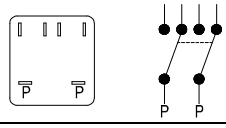
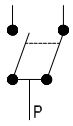
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk www.lorlin.co.uk

MSL MAINS LOCK SWITCHES

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	4/80A @ 250Vac R/C
Life:	>15,000 Cycles
Operating Temperature:	-25ºC to +85 ºC
Proof Voltage:	3kV min. (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20 mΩ (Initial)
Switch contacts:	Silver Cadmium Oxide
Switch Chamber:	Polyamide 6.6 G.F. V0 Rated
Tag Panel:	SRBP
Terminals:	Brass CZ108 Ag Plated
Lock Housing:	Zinc Alloy Bright Cr Plated
Keys:	Mild Steel Ni Plated

RoHS COMPLIANT

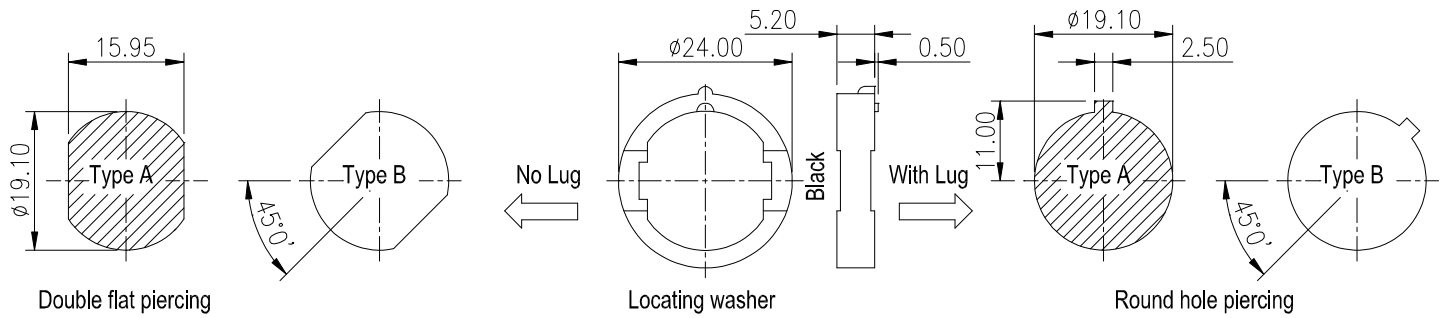
CIRCUITRY	TERMINAL LAYOUT VIEWED FROM REAR OF SWITCH	KEY WITHDRAWAL POSITIONS
2 POLE OFF-ON		
2 POLE 1 OFF 1 ON		
2 POLE ON-OFF (NORMALLY CLOSED)		
2 POLE CHANGEOVER (No approvals)		
NOTE: By externally linking the two pole terminals a 1 pole c/o is made		

SWITCH MODULE IS ENEC APPROVED TO EN61058 BY VDE.
Note: CHANGEOVER TYPE HAS NO APPROVALS.

GENERAL FEATURES

- Made in UK.
- Two part construction. The lock is inserted into the panel from the front. The mains switch module either bracketed or snap-on, from the rear of the panel.
- Standard solder terminals (Printed circuit terminals optional – add /P to part number).
- Two keys per lock. Additional keys to order.
- Keys to pass (same key all locks) or differ (different key per lock).

MOUNTING DETAILS FOR BRACKETED MSL, MIS LOCKSWITCHES

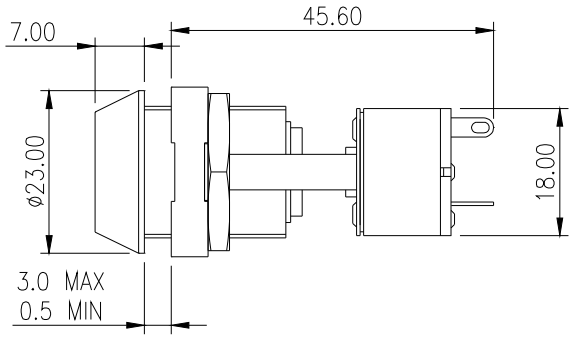


Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk / www.lorlini.co.uk

MSL MAINS LOCK SWITCHES

MSL

LOCKSWITCH WITH BRACKETED MS MODULE

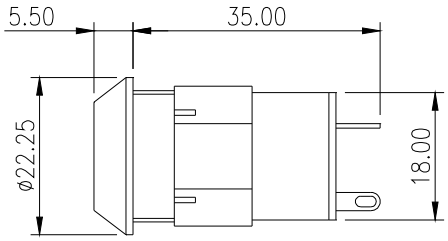


STANDARD MSL SWITCHES & PART NUMBERS				
2 POLE OFF-ON	2 POLE 1-OFF 1-ON	2 POLE CHANGEOVER	KEY NUMBERS	POSITION IN WHICH KEY FREE
MSL 8601B	MSL 8603B	MSL 8605B	Differs	0º and 90º (1+4)
MSL 8602B	MSL 8604B	MSL 8606B	Same	0º and 90º (1+4)
MSL 8609A	MSL 8611A	MSL 8613A	Differs	0º only (1)
MSL 8610A	MSL 8612A	MSL 8614A	Same	0º only (1)

LOCK TYPE: 8 Disc with built-in anti-pick system.
LOCK MOVEMENT: 90º Steps.
LOCK COMBINATIONS: 2000 differs or all to pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock either way up).
MASTER KEY SYSTEM AVAILABLE: Yes.
MAXIMUM PANEL THICKNESS: 3mm.
MODULE TYPE: Bracketed (the switch module is fitted to a "U" shaped bracket).

MSL5

LOCKSWITCH WITH SNAP-ON MS MODULE

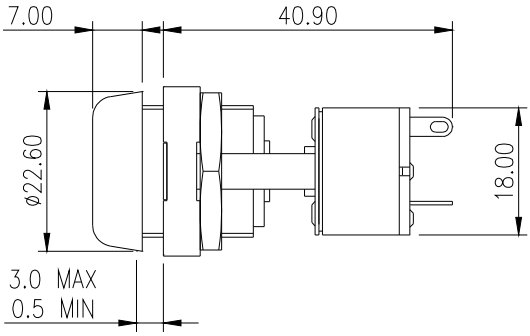


STANDARD MSL5 SWITCHES & PART NUMBERS				
2 POLE OFF-ON	2 POLE 1-OFF 1-ON	2 POLE CHANGEOVER	KEY NUMBERS	POSITION IN WHICH KEY FREE
MSL 8621	MSL 8625	MSL 8629	Differs	0º and 90º (1+4)
MSL 8622	MSL 8626	MSL 8630	Same	0º and 90º (1+4)
MSL 8623	MSL 8627	MSL 8631	Differs	0º only (1)
MSL 8624	MSL 8628	MSL 8632	Same	0º only (1)

LOCK TYPE: 5 Disc.
LOCK MOVEMENT: 90º Steps.
LOCK COMBINATIONS: 200 differs or all to pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock either way up).
MASTER KEY SYSTEM AVAILABLE: Yes.
MAXIMUM PANEL THICKNESS: 3.4mm.
MODULE TYPE: Snap-on

MIS(Impulsion)

LOCKSWITCH WITH BRACKETED MS MODULE



STANDARD MIS SWITCHES & PART NUMBERS				
2 POLE OFF-ON	2 POLE 1-OFF 1-ON	2 POLE CHANGEOVER	KEY NUMBERS	POSITION IN WHICH KEY FREE
MIS 8659	MIS 8661	MIS 8663	Differs	0º only (1)
MIS 8660	MIS 8662	MIS 8664	Same	0º only (1)

LOCK TYPE: 3 Disc impulsion lock (spring back to position 1)
LOCK MOVEMENT: 90º Steps.
LOCK COMBINATIONS: 2000 differs or all to pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock either way up).
MASTER KEY SYSTEM AVAILABLE: Yes.
MAXIMUM PANEL THICKNESS: 3mm.
MODULE TYPE: Non-Approved - Bracketed (the switch module is fitted to a "U" shaped bracket).

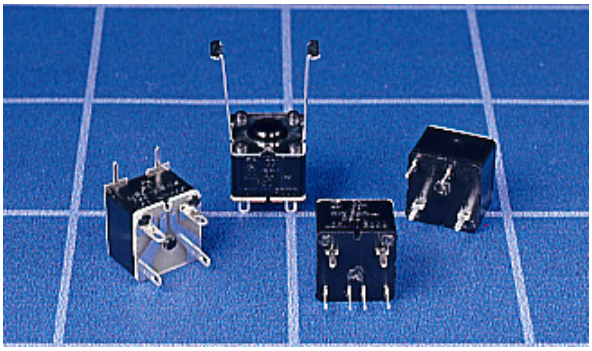
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk / www.lorlini.co.uk

MS 2000 MAINS SWITCH MODULES

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

RoHS COMPLIANT

Switch Rating:	4/80A @ 250Vac R/C
Life:	>15,000 Cycles
Operating Temp:	-25°C to +85°C
Proof Voltage:	2.5KV (Initial)
Insulation Resistance:	>999 MΩ @ 500V DC (Initial)
Contact Resistance:	<20 mΩ (Initial)
Contact Gap:	3mm
Switch Contacts:	Silver Cadmium Oxide
Switch Chamber:	Polyamide 6.6 G.F. V0 Rated
Tag Panel:	SRBP
Terminals:	Brass CZ108 Ag Plated



ENEC APPROVED TO EN61058 BY VDE
Note: CHANGEOVER TYPE HAS NO APPROVALS.

2 POLE OFF- ON (NORMALLY OPEN)		
	PLATE	BRACKET
ORDERING CODE	MS2126 60° SOL	MS2071 90° SOL
	MS2074 30° SOL	

2 POLE 1 OFF 1 ON		
	PLATE	BRACKET
ORDERING CODE	MS2145 60° SOL	MS2072 90° SOL
	MS2075 30° SOL	

2 POLE ON-OFF (NORMALLY CLOSED)		
	PLATE	BRACKET
ORDERING CODE	MS2163 60° SOL	MS2078 90° SOL
	MS2133 30° SOL	

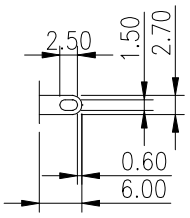
	SPECIAL PLATE	SPECIAL BRACKET
	MS2170 30° PCB	MS2121 30° SOL
By externally linking the two pole terminals a 1 pole c/o is made		

2 POLE CHANGEOVER (Not Approved)		
	PLATE	BRACKET
ORDERING CODE	MS2146 60° SOL	MS2073 90° SOL
	MS2076 30° SOL	

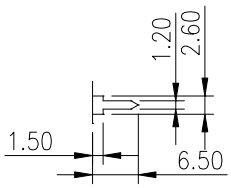
Variants available include Non Bracketed, Bracketed, Plate mounting, Pcb, Solder and with or without stops. Contact our Sales Office with your requirements.

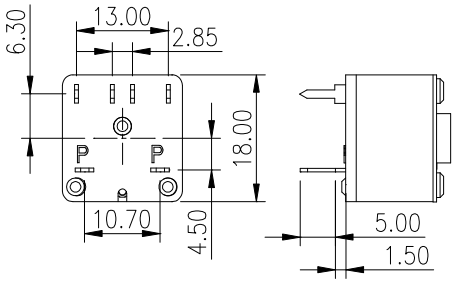
STANDARD SWITCH DETAIL

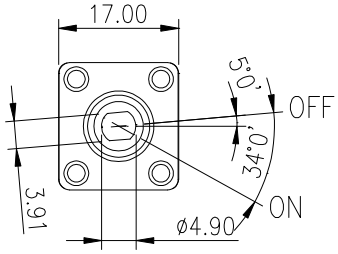
SOLDER



PCB

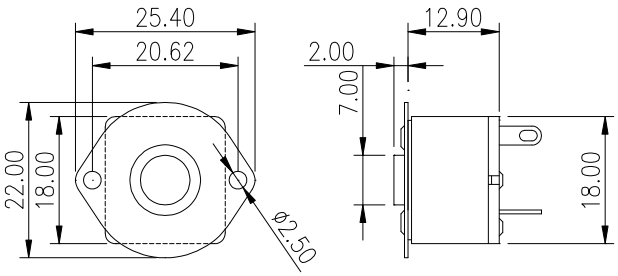




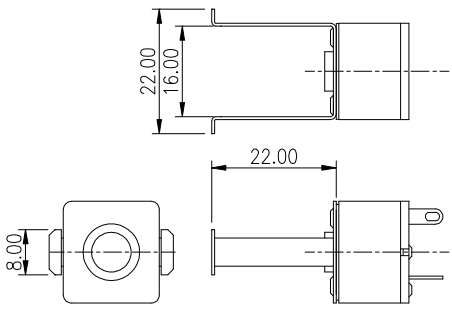


Orientation in OFF–Position ie Fully anti–Clockwise

PLATE MOUNTING



MOUNTING BRACKET



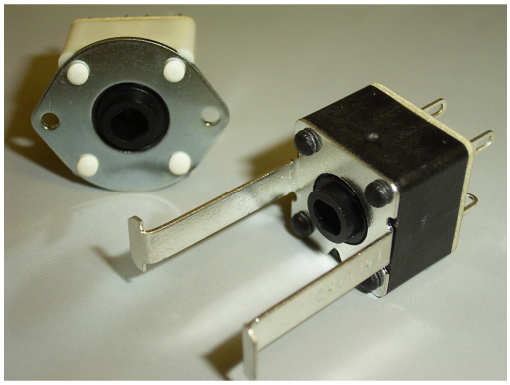
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood Rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk / www.lorlin.co...uk

MS 2000 SIGNAL ROTARY SWITCH

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

RoHS COMPLIANT

Switch Rating:	20mA @ 24V DC
Life:	50,000 Cycles
Operating Temp:	-25°C to +85°C
Proof Voltage:	2.5KV (Initial)
Insulation Resistance:	>999 MΩ @ 500V DC (Initial)
Contact Resistance:	<20 mΩ (Initial)
Contact Gap:	3mm
Switch Contacts:	Ag CdO + Au plated
Switch Chamber:	Polyamide 6.6 G.F. V0 Rated
Tag Panel:	SRBP
Terminals:	Brass CZ108 Ag Plated

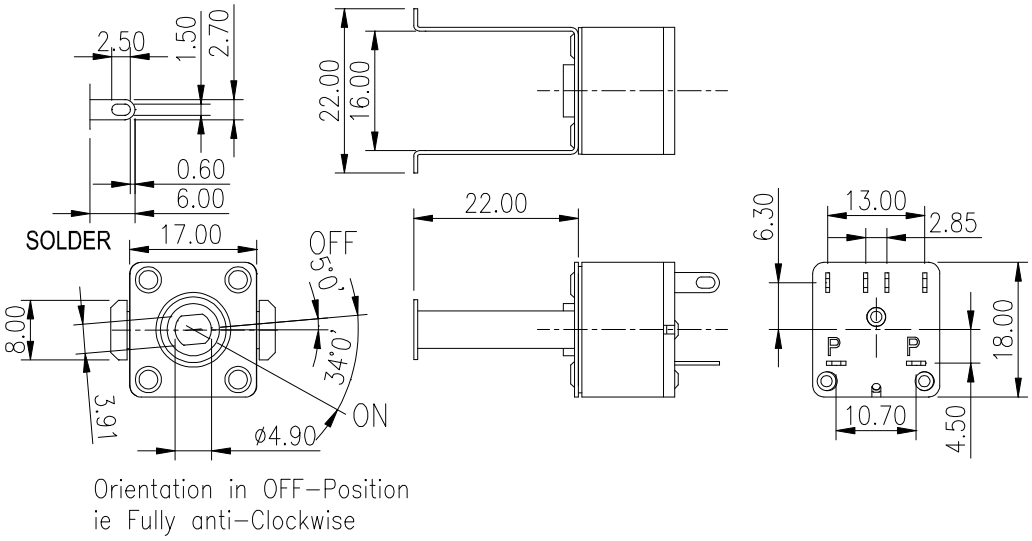


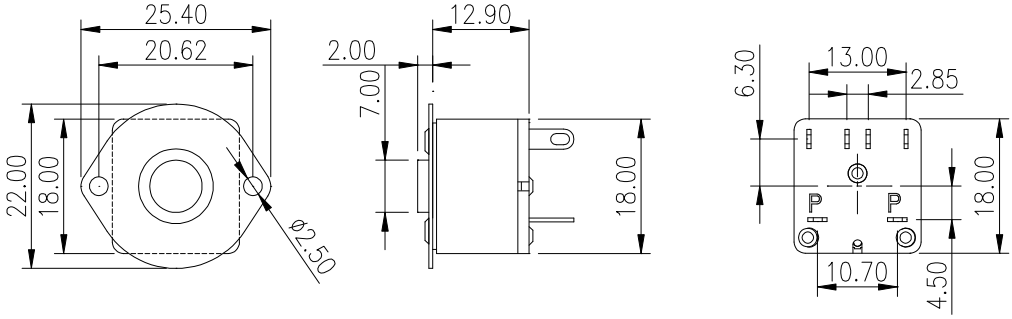
2 POLE OFF- ON (NORMALLY OPEN)		
	PLATE	BRACKET
ORDERING CODE		MS2212 90° SOL
	MS2215 90° SOL	

2 POLE CHANGEOVER		
	PLATE	BRACKET
ORDERING CODE		MS2211 90° SOL
	MS2214 90° SOL	

STANDARD SWITCH DETAIL

MOUNTING BRACKET





MOUNTING PLATE

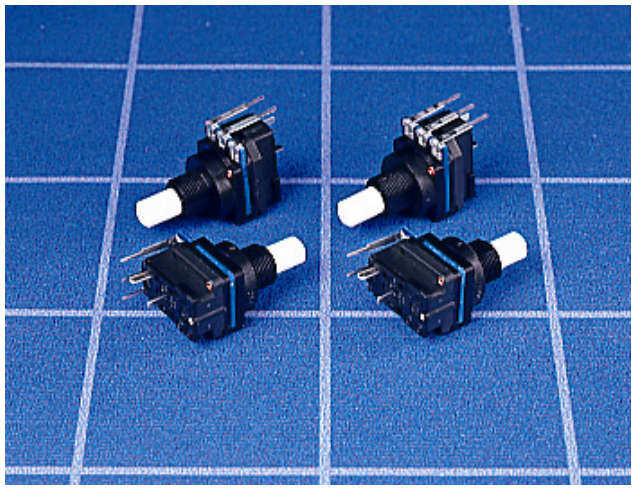
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood Rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk / www.lorlin.co.uk

MDST ROTARY DIMMER SWITCHES

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	Type 1: 10(2.5)A @ 250Vac R Type 2: 4A/100A @ 250Vac R/C
Surge Rating:	Type 2 only. 100A (10 milliseconds)
Life:	>10,000 Cycles Type 1: >15,000 Cycles 4A/100A Type 2:
Operating Temperature:	-25 ° C to +100 ° C
Proof Voltage:	2,500Vac (Initial)
Insulation Resistance:	>999MΩ @ 500Vdc (Initial)
Resistance Values:	10K-1.5M Ohm
Track Rating:	0.2W
Resistance Curve:	Linear
Switch Function:	1- pole OFF/ON
Mains Switch On:	Approx 40 ° Rotation
Switch Torque:	3.5 – 7Ncm
End Stop Torque:	40Ncm (minimum)
Perm. Axial Load:	50N (maximum)
Fixing Nut Torque	1.1Nm (maximum)
Potentiometer Rotation:	270º
Potentiometer Torque:	0.2 – 0.6Ncm
Spindle:	Acetal Copolymer (POM)
Housing:	Polyamide 6.6 GF V0 Rated
Terminals:	Switch: Brass CZ108 Sn Plated. Potentiometer : Mild Steel Sn Plated

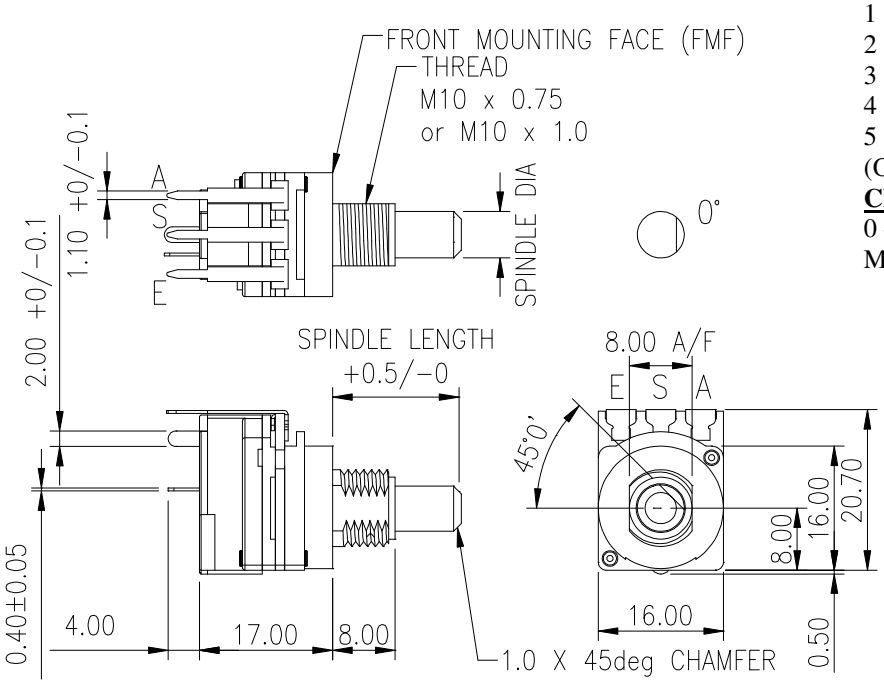
RoHS COMPLIANT



Switch Approved to EN61058 ENEC by VDE

GENERAL FEATURES

- Made in UK.
- Contact Gap >3mm.
- Rotary Switch with rotary potentiometer in common housing
- Solder terminals with or without holes
- Used in lighting dimmer controls
- Wide range of Resistance values available
- **Options also available include:-**
- Ø4.0 Metal spindle
- AS & ES Termination available
- Non-Linear Resistance curve

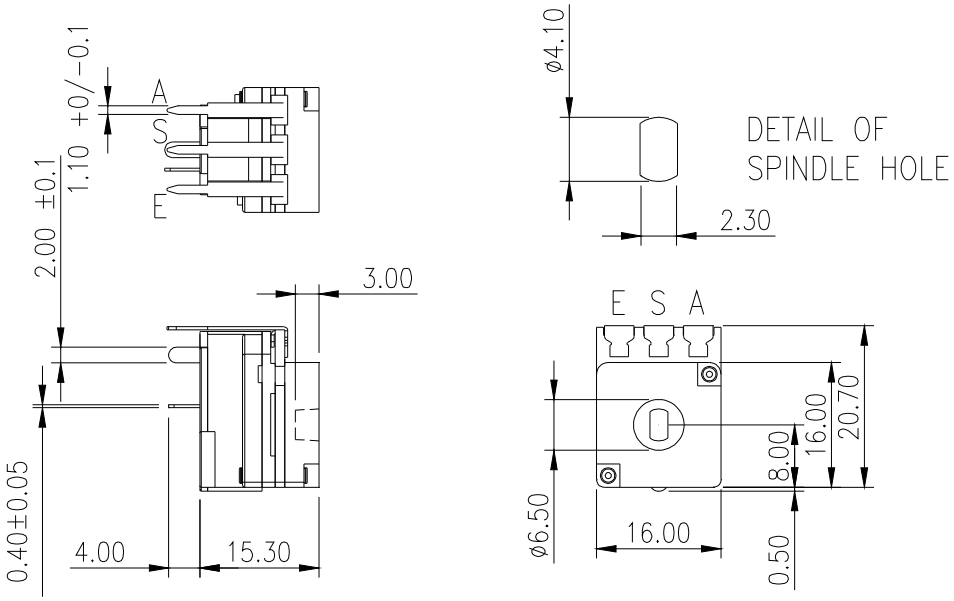


SPINDLE SIZES AVAILABLE
1 = Ø6.0 x 25 to FMF
2 = Ø6.0 x 18.5 to FMF x 5.0 A/F @ 0º
3 = Ø6.0 x 16.5 to FMF
4 = Ø6.3 x 16.5 to FMF x 5.5 A/F @ 45º
5 = Ø6.3 x 26 to FMF x 5.5 A/F @ 45º
(Others available on request)

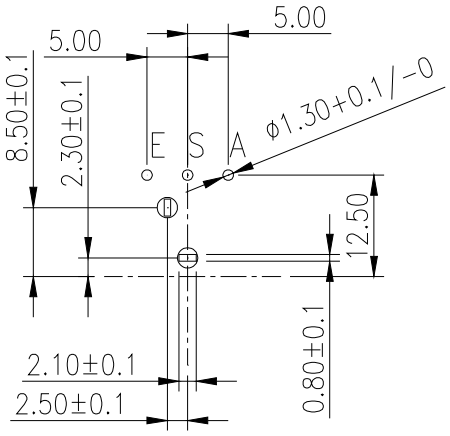
CLOCKWISE ROTATION
0 – max Ohms = AS
Max – 0 Ohms = ES

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

NO BUSH VERSION



TYPICAL PCB LAYOUT



ORDERING CODE

SWITCH RATING	BUSH OPTIONS	POTENTIOMETER TERMINALS	SOLDER TERMINALS	SPINDLE
TYPE 1 (10A) or TYPE 2 (4A)	W= With Bush N= No Bush	A + S, E +S or E+S+A	N= No Hole W= With Hole	1 2 3 4 5

M D S T [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]

FOR OTHER VARIATIONS PLEASE CONTACT OUR SALES OFFICE

Resistance Values
10K, 22K, 47K, 100k,
220K,330K, 470K, 500K, 1M,

NUTS REQUIRED (Supplied loose)

Y=Yes
N=NO

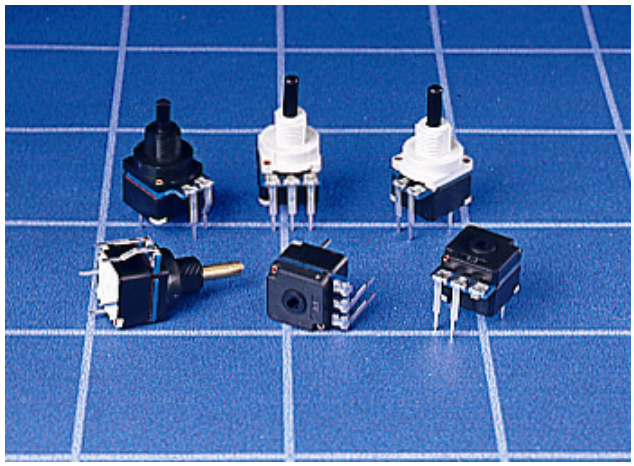
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk / www.lorlin.co.uk

MDSP PUSH-PUSH POTENTIOMETER SWITCH

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	10A @ 250Vac (resistive)
Life:	>25,000 Cycles
Operating Temperature:	-25 ° C to +100 ° C
Proof Voltage:	2,500Vac (Initial)
Insulation Resistance:	>999 MΩ @ 500Vdc (Initial)
Resistance Values:	10K – 1.5MΩ
Track Rating:	0.2W
Resistance Curve:	Linear
Switch Function:	1- pole changeover
Switch Travel:	3mm
Switch Operation Force:	15N (Nominal)
Rotational angle:	270º
Operating Torque:	0.2-0.6Ncm (Standard) 0.8-1.5Ncm (Tactile version)
End Stop Torque:	40Ncm (minimum)
Fixing Nut Torque:	1.1Nm (maximum)
Perm. Axial Load:	50N (maximum)
Spindle:	Polyamide 6.6 G.F. HB Rated
Housing:	Polyamide 6.6 G.F. V0 Rated
Terminals:	Switch: Brass CZ108 Sn Plated. Potentiometer : Mild Steel Sn plated

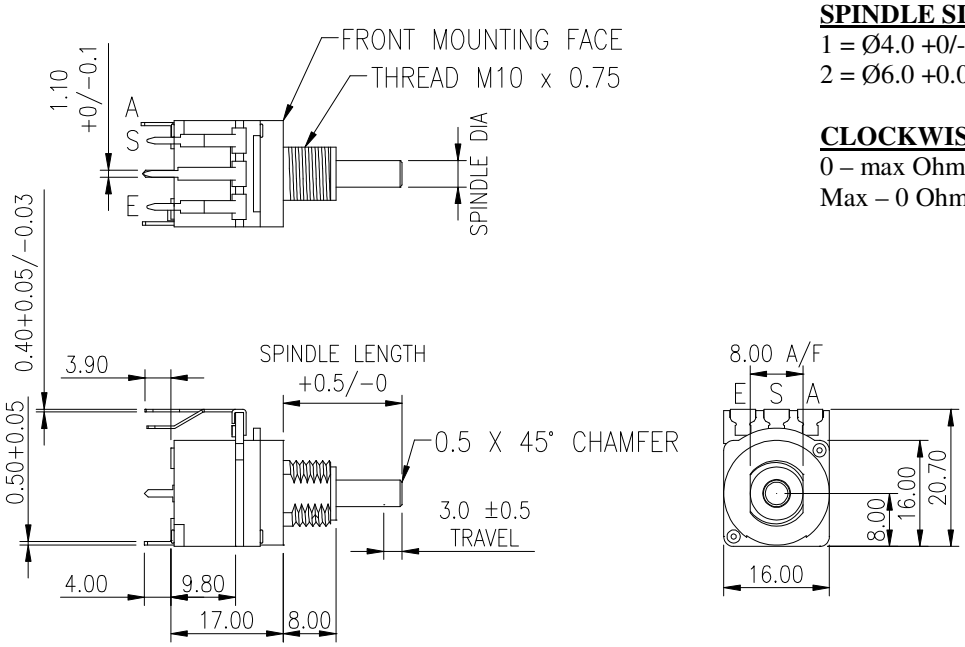
RoHS COMPLIANT



ENEC Approved to EN61058 by VDE

GENERAL FEATURES

- Made in UK.
- Push-Push switches with rotary potentiometer in common housing.
- Printed circuit terminals.
- Used in domestic lighting dimmer controls.
- Moulded components are in UL 94V-0 rated materials.
- Wide range of resistance values available.
- **Options also available include:-**
- Ø4.0 Metal spindle
- Tactile Feel version (7.5º Index)
- Alternate Switch forces available
- AS & ES Termination available
- Non-Linear
- M10 x 1.0mm Bush Thread

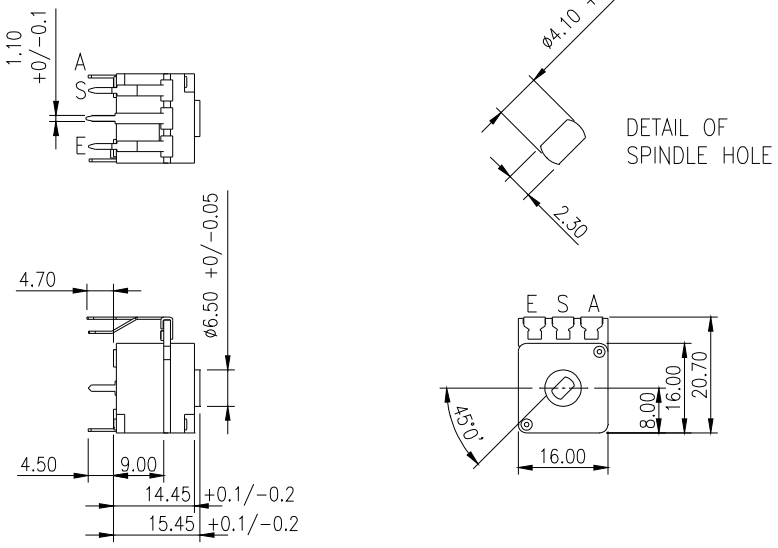


SPINDLE SIZES AVAILABLE
1 = Ø4.0 +0/-0.03
2 = Ø6.0 +0.00/-0.03

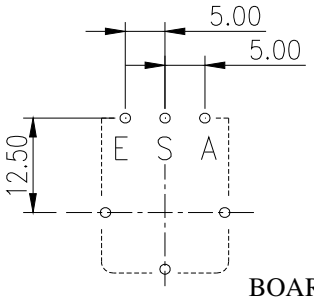
CLOCKWISE ROTATION
0 – max Ohms = AS
Max – 0 Ohms = ES

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

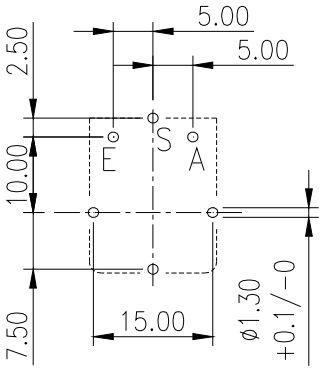
NO BUSH VERSION



TYPICAL PCB LAYOUT



BOARD LAYOUT
IN-LINE TERMINALS



BOARD LAYOUT
STAGGERED TERMINALS

ORDERING CODE

TRACK RESISTANCE VALUE	POTENTIOMETER TERMINALS	SPINDLE DIAMETER	SPINDLE MATERIAL
10K, 22K, 47K, 100K, 220K,330K, 470K, 500K, 1M, 1.5M	A + S, E +S or E+S+A	1 2	P - PLASTIC M- METAL

M	D	S	P	1	0	0	K	Y		E	S	A	S		2		2	2	P	N		

Y = With Detent N = Without Detent	I = In-Line S = Staggered	SPINDLE LENGTH FROM MOUNTING FACE	NUTS REQUIRED (Supplied loose)
		16-22mm (1mm increments)	Y=Yes N=NO

FOR OTHER VARIANTS PLEASE CONTACT OUR SALES OFFICE.

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

LS LOCK SWITCHES

RoHS COMPLIANT

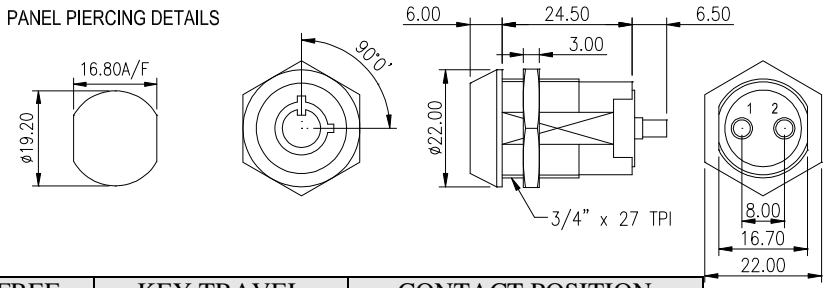
LS300 GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

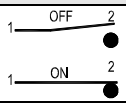
Switch Rating (Not mains isolating):	2A @ 250Vac 4A @ 125Vac
Life:	>10,000 Cycles
Proof Voltage:	1,500Vac (Initial)
Insulation Resistance:	>999MΩ at 500Vdc(Initial)
Contact Resistance:	<10 mΩ (Initial)

GENERAL FEATURES

- Tapered lock head
- Single pole, single throw lock switch, 90º indexing.
- Chrome plated zinc alloy die cast housing
- Key insertion/removal in both positions
- Radial cylinder with 7 pin tumblers.
- 50,000 key differs range.

PANEL PIERCING DETAILS



ORDERING CODE	TERMINALS	KEY FREE	KEY TRAVEL	CONTACT POSITION
LS300	2	2	90º	

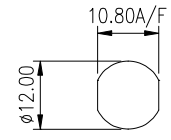
LS120, LS120B & LS121 GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

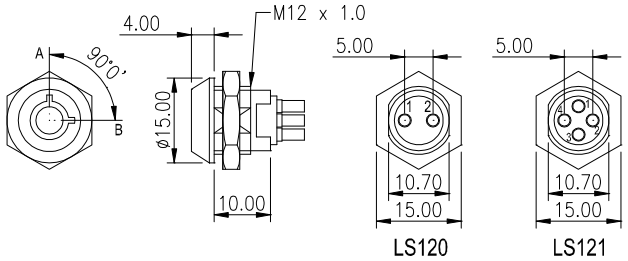
Contact Rating (Not mains isolating):	1A @ 250V AC 2A @ 125V AC
Life:	>10,000 Cycles
Proof Voltage:	>1000V AC – I minute (Initial)
Insulation Resistance:	>500 Megohms at 500V DC (Initial)
Contact Resistance:	10 Milliohms (max) (Initial)

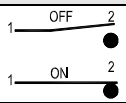
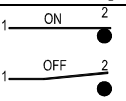
GENERAL FEATURES

- LS120 Single Pole
- Tapered lock head, 90º Indexing.
- Radial cylinder with 7 pin tumblers.
- Chrome plated zinc alloy die cast housing
- 2 Keys per lock (common keys only)
- Keys can be withdrawn at both ON and OFF positions.
- LS121 double pole, single throw lock switch.

PANEL PIERCING DETAILS





ORDERING CODE	TERMINALS	KEY FREE	KEY TRAVEL	CONTACT POSITION
LS120A	2	2	90º	
LS120B	2	2	90º	
LS121	4	2	90º	

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

IRL IMPULSION LOCK SWITCHES

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

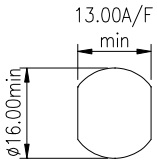
RoHS COMPLIANT

Switch Rating:	1A @ 115Vac resistive load
(Switching Resistive load):	1A @ 24Vdc resistive load
Life:	>10,000 Cycles
Operating Temperature:	-20ºC to +65 ºC
Proof Voltage:	750 Vdc (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20 mΩ (Initial)
Lock Type:	5 Disc
Std. Qty. of Keys per Lock:	2 Mild Steel Ni Plated
Contact Material:	Brass CZ108 Ag Plated
Moulding Material:	Polyamide 6.6 G.F. V0 Rated
Lock Housing:	Zinc Alloy Bright Cr Plated

GENERAL FEATURES

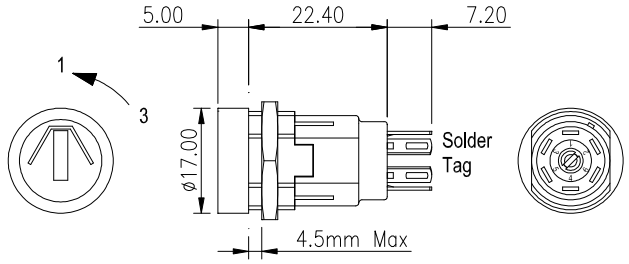
- Made in UK.
- Miniature key-operated Lock switch.
- Double pole
- Up to 200 key combinations – keys to differ. (D reference at end of part no)
- Common keys available – keys to pass.
- Keys are double entry (they can be inserted into the lock either way up).
- Occupies small panel area.
- Easily assembled through front of equipment panel.
- Rear projection less than 30mm from panel.

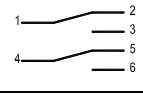
PANEL PIERCING DETAILS



DOUBLE POLE LOCK SWITCH

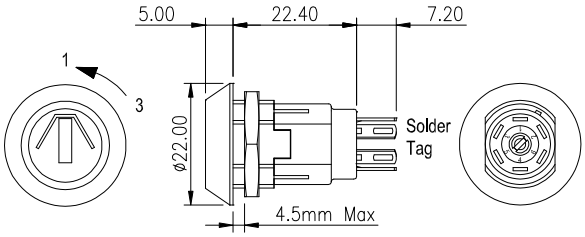
Parallel Lock Head 60º Indexing

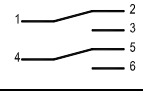


BASIC PART No.	TOTAL MOVEMENT	INDEXING	KEY WITHDRAWAL POSITIONS	SWITCH CONFIGURATION
IRL-5-K-S-2	60º	60º	1 ONLY	
IRL-5-K-D-2				

DOUBLE POLE LOCK SWITCH

Tapered Lock Head 60º Indexing



BASIC PART No.	TOTAL MOVEMENT	INDEXING	KEY WITHDRAWAL POSITIONS	SWITCH CONFIGURATION
IRL-5-M-S-2	60º	60º	1 ONLY	
IRL-5-M-D-2				

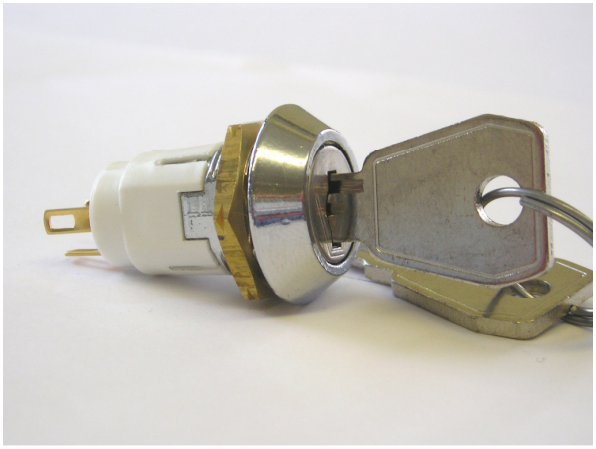
TWO POSITION ONLY SPRING BACK TO POSITION 1. KEY REMOVEABLE IN POSITION 1 ONLY

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

HRL HIGH RETENTION LOCK SWITCHES

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	1A @ 115Vac resistive load
(Switching Resistive load):	1A @ 24Vdc resistive load
Life:	>10,000 Cycles
Operating Temperature:	-20ºC to +65 ºC
Proof Voltage:	750 Vdc (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20 mΩ (Initial)
Lock Type:	5 Disc
Std. Qty. of Keys per Lock:	2 Mild Steel Ni Plated
Contact Material:	Brass CZ108 Ag Plated
Moulding Material:	Polyamide 6.6 G.F. V0 Rated
Lock Housing:	Zinc Alloy Bright Cr Plated

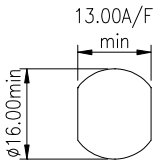


GENERAL FEATURES

RoHS COMPLIANT

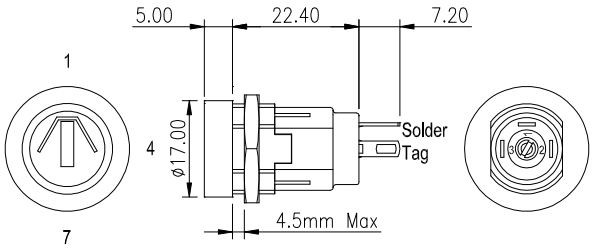
- Made in UK.
- Miniature key-operated Lock switch.
- Single or Double pole
- Up to 200 key combinations – keys to differ.
- Common keys available – keys to pass.
- Keys are double entry (they can be inserted into the lock either way up).
- Occupies small panel area.
- Easily assembled through front of equipment panel.
- Rear projection less than 30mm from panel.
- Special high retention module for portable and vehicle applications.

PANEL PIERCING DETAILS

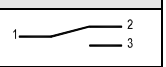
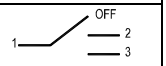
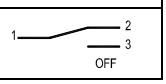


SINGLE POLE LOCK SWITCH

Parallel Lock Head 90º Indexing

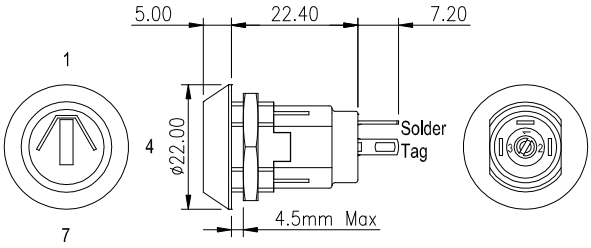


Key Withdrawal Positions

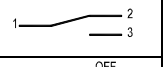
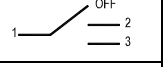
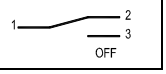
BASIC PART No.	TOTAL MOVEMENT	INDEXING	KEY WITHDRAWAL POSITIONS	SWITCH CONFIGURATION
HRL-5-A	90º	90º	1,4	
HRL-5-B	90º	90º	1 ONLY	
HRL-5-C	180º	90º	1,4,7	
HRL-5-N	180º	90º	1,4,7	

SINGLE POLE LOCK SWITCH

Tapered Lock Head 90º Indexing



Key Withdrawal Positions

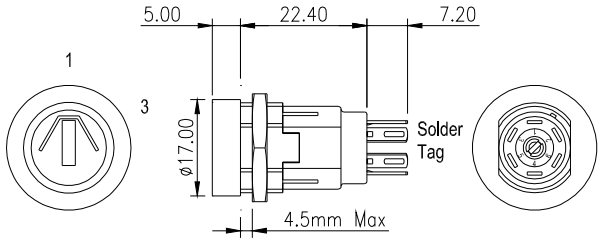
BASIC PART No.	TOTAL MOVEMENT	INDEXING	KEY WITHDRAWAL POSITIONS	SWITCH CONFIGURATION
HRL-5-D	90º	90º	1,4	
HRL-5-E	90º	90º	1 ONLY	
HRL-5-F	180º	90º	1,4,7	
HRL-5-P	180º	90º	1,4,7	

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

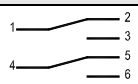
HRL HIGH RETENTION LOCK SWITCHES

DOUBLE POLE LOCK SWITCH

Parallel Lock Head 60º Indexing

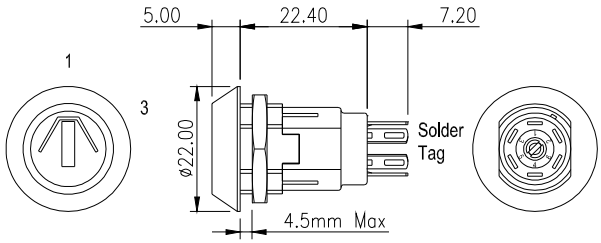


Key Withdrawal Positions

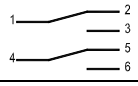
BASIC PART No.	TOTAL MOVEMENT	INDEXING	KEY WITHDRAWAL POSITIONS	SWITCH CONFIGURATION
HRL-5-J	60º	60º	1,3	
HRL-5-K	60º	60º	1 ONLY	

DOUBLE POLE LOCK SWITCH

Tapered Lock Head 60º Indexing

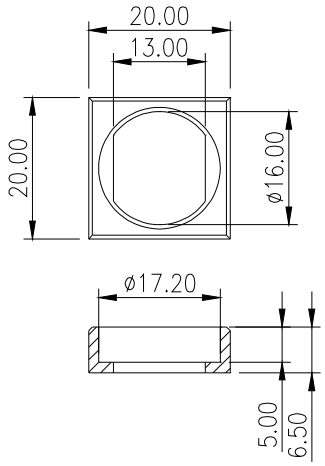


Key Withdrawal Positions

BASIC PART No.	TOTAL MOVEMENT	INDEXING	KEY WITHDRAWAL POSITIONS	SWITCH CONFIGURATION
HRL-5-L	60º	60º	1,3	
HRL-5-M	60º	60º	1 ONLY	

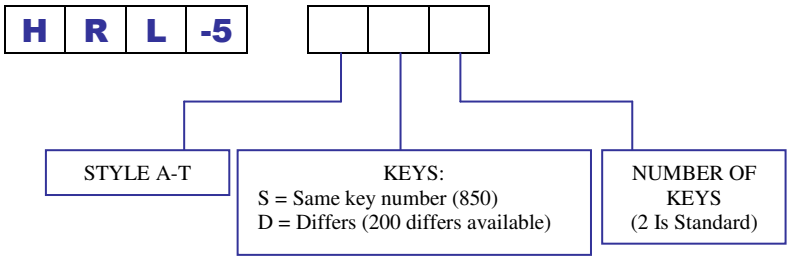
OPTIONAL EXTRAS

Moulded Bezel for Parallel Lock Headed Versions



SUPPLIED LOOSE: ORDERING CODE SRL 02101

HRL LOCK SWITCH ORDER CODE



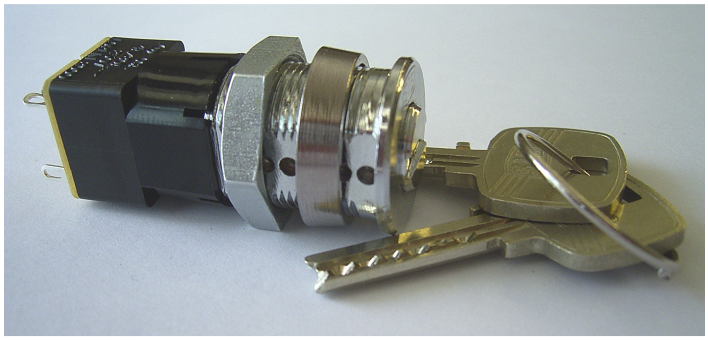
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk | www.lorlin.co.uk

DSL MAINS LOCK SWITCHES

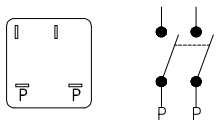
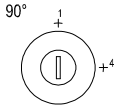
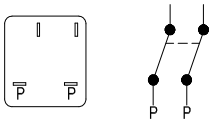
GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	4/80A @250V ac. R/C
Life:	>15,000 Cycles
Operating Temperature:	-25ºC to +85 ºC
Proof Voltage:	3kV min. (Initial)
Insulation Resistance:	>999 MΩ at 500Vdc (Initial)
Contact Resistance:	<20 MΩ (Initial)
Flame Retardency:	UL94 V0
Switch contacts:	Silver Cadmium Oxide
Switch Chamber:	Polyamide 6.6 G.F. V0 Rated
Tag Panel:	SRBP
Terminals:	Brass CZ108 Ag Plated
Lock Housing:	Brass - Chrome or Nickel Plated
Keys:	Nickel Silver

RoHS COMPLIANT



Switch Module ENEC approved to EN61058 by VDE

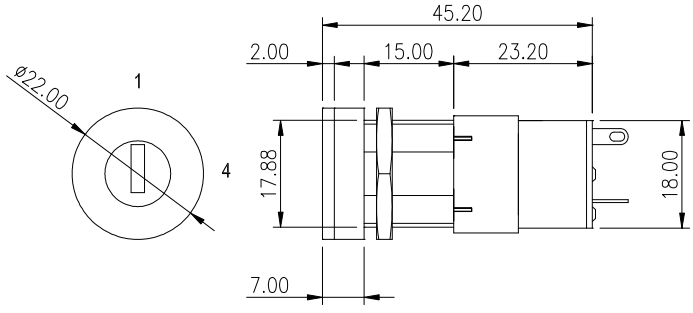
CIRCUITRY	TERMINAL LAYOUT VIEWED FROM REAR OF SWITCH	KEY WITHDRAWAL POSITIONS
2 POLE OFF-ON		
2 POLE ON-OFF (NORMALLY CLOSED)		

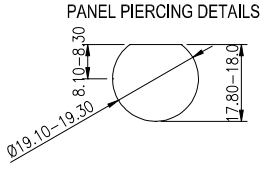
GENERAL FEATURES

- Over 15000 key combinations – keys to differ
- Key –operated Lock with dimpled 6 pin lock
- Made in UK
- Common keys available – keys to pass
- Two part construction. The lock is inserted into the panel from the front. The mains switch module snaps-on, from the rear of the panel.
- Standard solder terminals (Printed circuit terminals optional – add /P to part number).
- Two keys per lock. Additional keys to order.
- Snap on switch module

DSL-6 ORDER C0DES			
SWITCH	KEY	POSITION IN WHICH KEY FREE	ORDER CODES
2 POLE OFF – ON	DIFFERS DIFFERS	0º and 90º (1+4) 0º only (1)	DSL-6-A-D DSL-6-B-D
2 POLE OFF –ON	SAME SAME	0º and 90º (1+4) 0º only (1)	DSL-6-C-S DSL-6-D-S
2 POLE ON-OFF	DIFFERS DIFFERS	0º and 90º (1+4) 0º only (1)	DSL-6-E-D DSL-6-F-D
2 POLE ON-OFF	SAME SAME	0º and 90º (1+4) 0º only (1)	DSL-6-G-S DSL-6-H-S

LOCK TYPE: BRASS Lock 6 pin – low profile or with decorative panel ring.
LOCK MOVEMENT: 90º Step
LOCK COMBINATIONS: Over 15000 differ or all pass (same key for all locks).
KEY TYPE: Flat, double entry (key can be inserted into the lock either way up).
MASTER KEY SYSTEM AVAILABLE: No
MAXIMUM PANEL THICKNESS: 15mm.
ASSEMBLY WEIGHT: 90 grams





DSL LOCKSWITCH WITH SNAP-ON MS MODULE

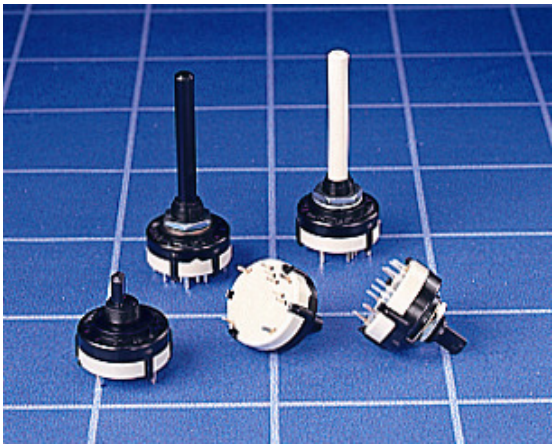
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk / www.lorlin.co.uk

BCK BINARY CODED ROTARY SWITCH

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

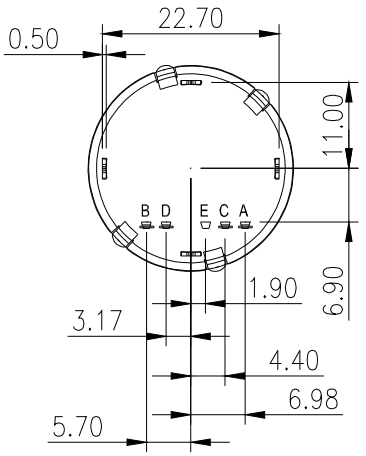
	COMMON E Connection to Terminals			
DIAL	A	B	C	D
1	•	•	•	•
2	•	•	•	
3	•	•		•
4	•	•		
5	•		•	•
6	•		•	
7	•			•
8	•			
9		•	•	•
10		•	•	
11		•		•
12		•		
13			•	•
14			•	
15				•
16				

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

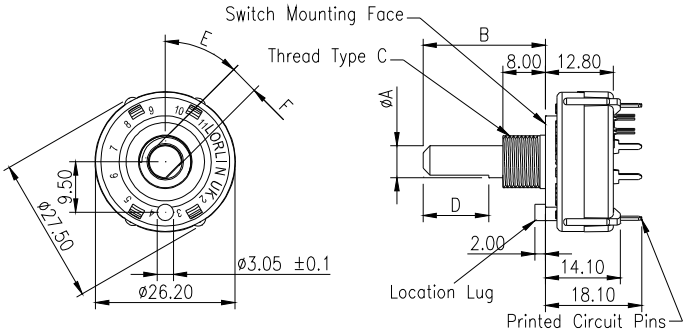
BCK BINARY CODED ROTARY SWITCH



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:

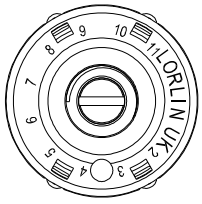
1. Switching Code
2. Imperial or Metric Spindle Diameter
3. Dimension (B) Spindle length from Mounting Face
4. Thread Required (C)
5. Spindle Flat length if required (D)
6. Angle of Flat (E)
7. Spindle Flat Depth (F)
8. 16 Position or No Stop Version
9. Contact Plating: Silver/Gold Flash/2.5 microns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

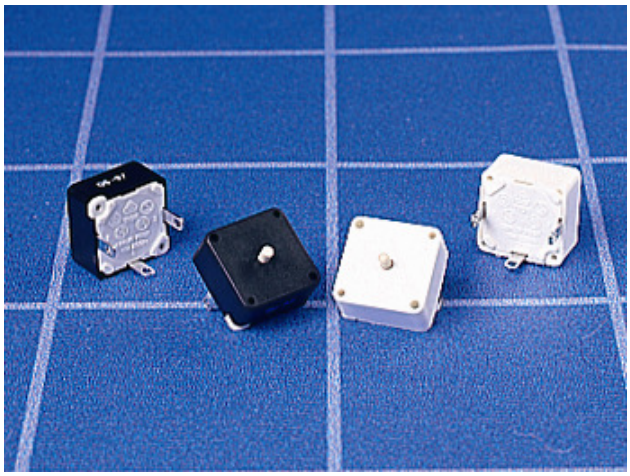
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood rd, Littlehampton, W. Sussex BN17 7At England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk | www.lorlin.co.uk

1745-DIMMER SWITCH MODULE

MDSP SWITCH MODULE
GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

RoHS COMPLIANT

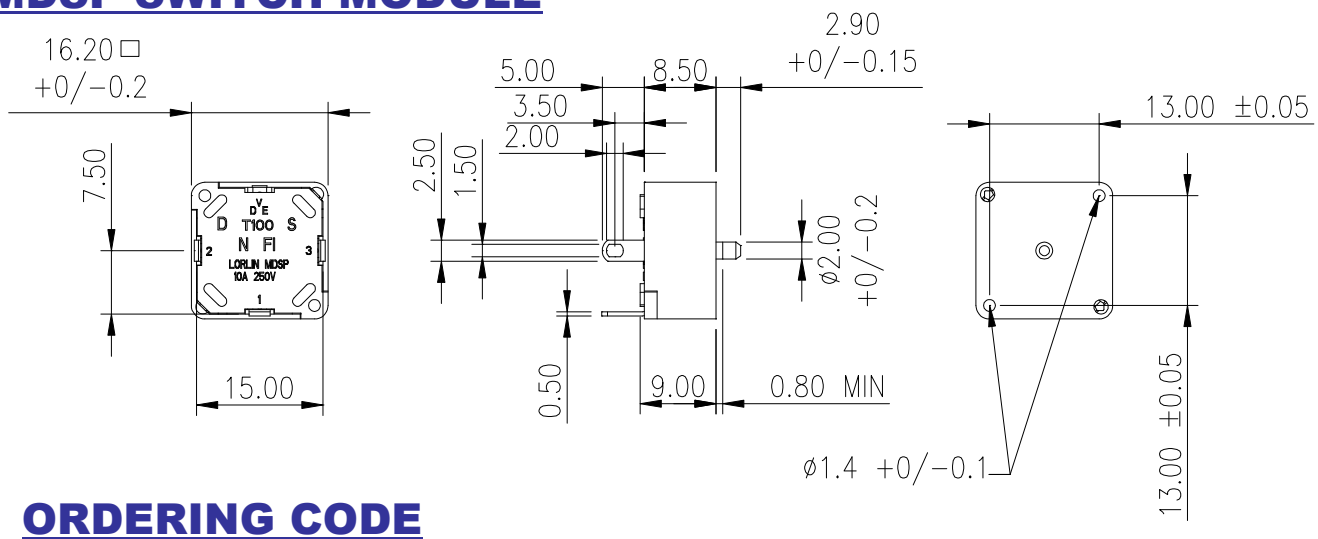
Rating:	10A @ 250Vac (resistive)
Life:	>25,000 Cycles
Operating Temperature:	-25 ° C to +100 ° C
Proof voltage:	2.5KVac (Initial)
Insulation Resistance:	<999MΩ @ 500V dc (Initial)
1 Pole Changeover:	Push on/Push off
Housing:	Polyamide 6.6 G.F. V0 Rated
Wafer:	Polyamide 6.6 G.F. V0 Rated
Plunger:	Polyamide 6.6 G.F. V0 Rated
Contacts:	Silver Cadmium Oxide
Rotor Contacts:	Silver Cadmium Oxide
Terminals	Brass CZ108 Sn Plated



GENERAL FEATURES

- Made in UK.
- Solder Terminals.
- Approved to EN61058 ENEC by VDE

MDSP SWITCH MODULE



ORDERING CODE

		COLOUR IDENTIFICATION		
ORDERING CODE	SWITCH FORCE	HOUSING	WAFER	PLUNGER
1745-501S	7-9 N	BLACK	NATURAL	NATURAL
1745-505S	3.5-4.5 N	NATURAL	NATURAL	NATURAL

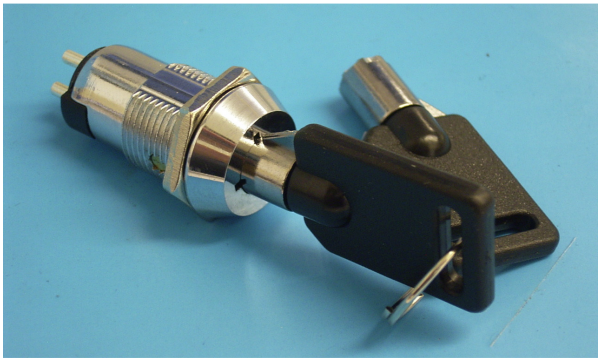
Lorlin Electronics Ltd, Harwood Industrial Estate, Harwood Rd, Littlehampton, W. Sussex BN17 7AT England
Tel (+44) 01903 725121 Fax (+44) 01903 726808 E-mail sales@lorlin.co.uk / www.lorlin.co.uk

S16 RADIAL PIN LOCK SWITCHES

GENERAL ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating	1A @ 24V DC
Life:	>10,000 Cycles
Operating Temperature	-20° to +65° C
Proof Voltage:	500Vdc (Initial)
Insulation Resistance:	>999MΩ at 500Vdc(Initial)

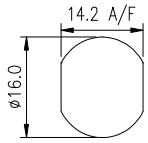
RoHS COMPLIANT

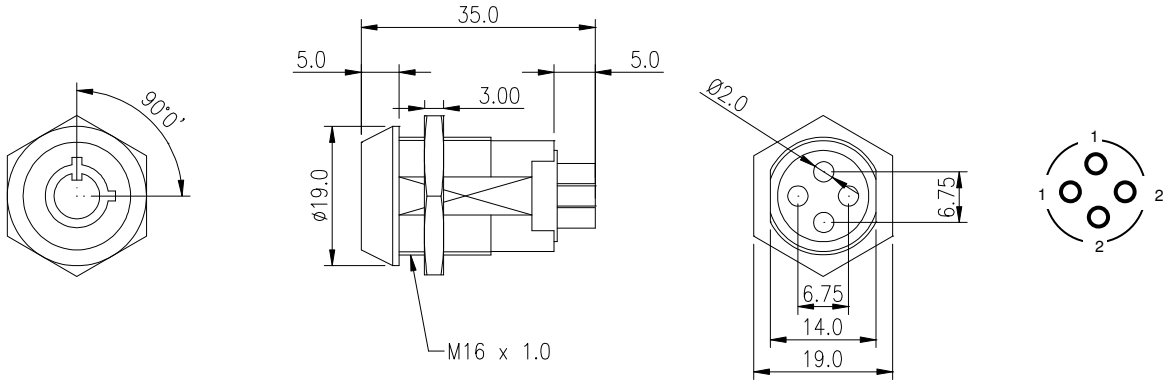


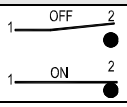
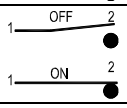
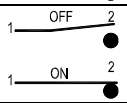
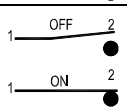
GENERAL FEATURES

- Tapered lock head front panel mount
- Single pole, Dual throw lock switch, 90º indexing
- Bright Chrome plated zinc alloy die cast housing
- Key insertion/removal in one or both positions
- Radial cylinder with 7 pin tumblers
- Same key or 100 differ key option

PANEL PIERCING DETAILS





ORDERING CODE	KEY OUT	KEY No	KEY TRAVEL	CONTACT POSITION
S16-A-S-2	0° & 90°	SAME	90º	
S16-A-D-2	0° & 90°	DIFFER	90º	
S16-B-S-2	0°	SAME	90º	
S16-B-D-2	0°	DIFFER	90°	

Lorlin Electronics Ltd, Harwood Industrial Estate, Hartwood 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