LORLIN

GCK ROTARY SWITCH

ELECTRICAL & MECHANICAL SPECIFICATION

Switch Rating:	150mA @ 24V ac/dc	**Life:**	>10,000 Cycles
Proof Voltage:	250V ac (Initial)	**Operating Temperature:**	-30°C to +85°C
Insulation Resistance:	>999 MΩ at 500V dc (Initial)		
		Operating Torque (nominal):	Standard 4.7 ± 0.5 cNm
Contact Resistance	<50 mΩ (Initial)	**End Stop Torque (nominal):**	0.8 Nm
Terminal Material:	Brass, CZ108 Sn Plated	**Housing/Bush Material**	Polyamide 6.6 G.F

FEATURES

Gray coded, standard and complimentary versions

Adjustable stops to restrict number of positions

Spindles with special flats, slots or knurls   Made in the UK

Standard 22.5° indexing 4-Bit   PCB Terminals
Standard 45° indexing 3-Bit   + extra stabilising terminals

Moulded 27.5mm diameter   Standard silver contacts, gold flashed
UL-V0 rated material option   or gold plated also available

STANDARD PART NUMBERS

BASIC TYPES	SPINDLE DIAMETER	SPINDLE LENGTH FROM MOUNTING FACE	8mm LONG BUSH	SPINDLE FLAT LENGTH	ANGLE OF SPINDLE FLAT	SPINDLE FLAT THICKNESS
IMPERIAL	6.35mm	38mm	9.52 x 32TPI	30mm	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

Position	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

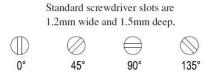| Position	A	B	C
0			
1			•
2		•	•
3		•	
4	•	•	
5	•	•	•
6	•		•
7	•		

LORLIN GRAY CODED COMMON –3-BIT

STD – COUNT UP MIN - MAX
COMP – COUNT DOWN – MAX - MIN
AS ROTATED CLOCKWISE

Terminal D should either not be connected or
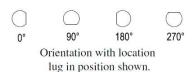join Terminal D to Terminal E

SPINDLE DIMENSIONS

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

STANDARD SCREWDRIVER SLOT ANGLES

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

0°   45°   90°   135°

TYPICAL SPINDLE DETAILS

0°   90°   180°   270°

Orientation with location
lug in position shown.

EXAMPLE
Screwdriver slot level with top of threaded fixing
bush 1.2mm wide x 1.5mm deep (standard) at 90°
(standard)

GCK ORDERING: DETAILS NEEDED

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