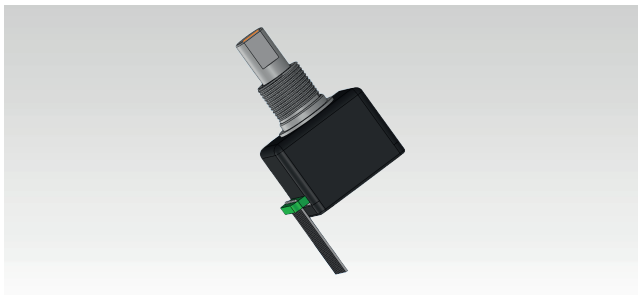


# FNC Miniature Encoder Incremental Version



## Features

- Low cost
- Long life
- Available in 3,3 or 5,0 VDC operational voltages
- Optional integral push-button function
- Open collector or Push pull output (compatible with CMOS, TTL and HCMOS logic level)
- Available in 8, 12, 16, 20, 24, 32 positions
- Choice of cable lengths and terminations

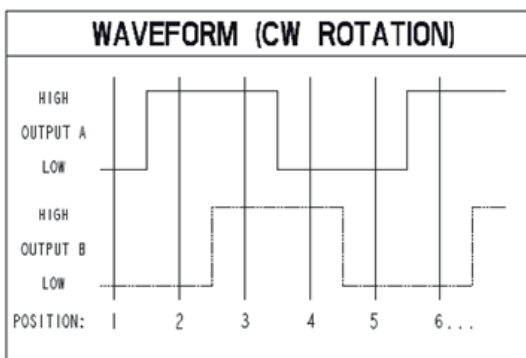
## Technical data - electrical ratings

Supply Voltage	5,5V - 3V (for 5V type) 3,6V - 3V (for 3,3V type)
Supply Current	5 - 12 mA (for 5V type) 7 - 10 mA (for 3,3V type)
Max Rotation Speed	25.000 RPM (for 5V type) 2000 RPM (for 3,3V type)
Push Button function	Normally open Push button switch (for 5V type) Logic High/Logic Low (3,3V type)
Logic output characteristics	Push pull output VOH VDD-0,25 V Iout 2mA VoL 0,25V Iout 2mA  Open collector output 5V version High level input : 3,8V Low level input : 0,8V with 2,2kΩ pull-up resistor  Open collector output 3,3V version High level input : 2,3V Low level input : 0,8V with 2,2kΩ pull-up resistor

## Technical data - mechanical design

Operating Temperature	-40 to +105 °C
Housing	Derlin
Detent Spring	301

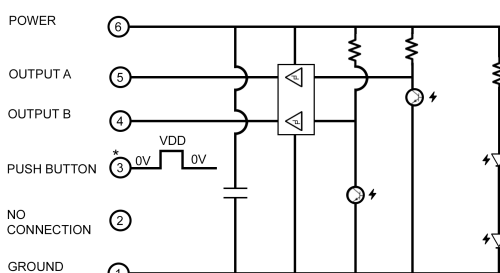
## Output Code



POSITION	OUTPUT A	OUTPUT B
1		
2	○	
3	○	○
4		○

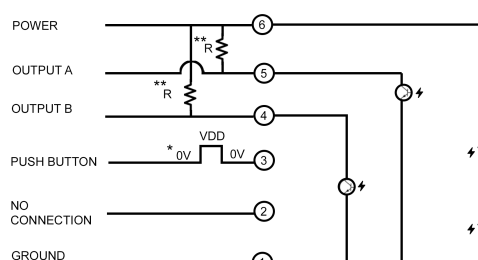
BLANK = LOGIC LOW    ○ = LOGIC HIGH  
CODE REPEATS EVERY FOUR POSITIONS.

### Push pull output



\* It gives VDD when push button pressed and returns 0V when

### Open collector output



\*\* External pull up resistors required for operation (2.2 kΩ)

