

JPEN User Manual

VERSION : V1.00

品名	JPEN-37H-M256
料號	JPEN-37H-M256



Magnetic Encoder

☐ **Square-wave**

$$X1+X2 = 0.5T$$

$$X2+X3 = 0.5T$$

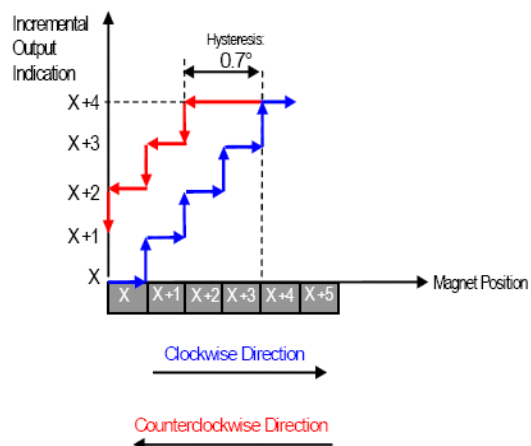
$$TM = 0.25T$$

$$T = 360^\circ / 256$$

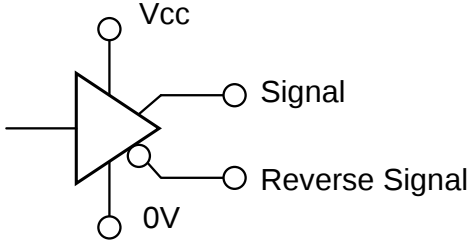
$$= 1.35849$$

Incremental Output Hysteresis

Parameter	Symbol	Typ	Unit	Note
PWM frequency	f_{PWM}	0.9756	kHz	Signal period: 1025 μ s
MIN pulse width	PW_{MIN}	1	μ s	- Position 0d - Angle 0 deg
MAX pulse width	PW_{MAX}	1024	μ s	- Position 1023d - Angle 359,65 deg



Electrical Specifications

Output Pulse		256 PPR
Supply Voltage (Vcc)		5V $\pm$ 0.5V
Supply Current		$\leq$ 100 mA
Output Type		Line Drive
Output Circuit		
Output Voltage	H	$\geq$ 4.5V
	L	$\leq$ 0.4V
Output Current		$\pm$ 4 mA
Rise Time		$\leq$ 150ns
Fall Time		$\leq$ 100ns
Maximum RPM		10000 rpm

☐ Mechanical Specifications

Cable Length	450 mm
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☐ Environmental Specifications

Operating Temperature	-10°C ~ 120°C
Storage Temperature	-30°C ~ 125°C
Vibration	10 ~ 55Hz / 15mm 2h
Protection Grade	IP40 Equivalent

☐ Output Signal Connection

D-Sub	PIN1	PIN2	PIN3	PIN4	PIN5	PIN6	PIN11	PIN12	PIN13	PIN14 、 PIN15
Signal	A	/A	B	/B	C	/C	M	/M	5V	0V