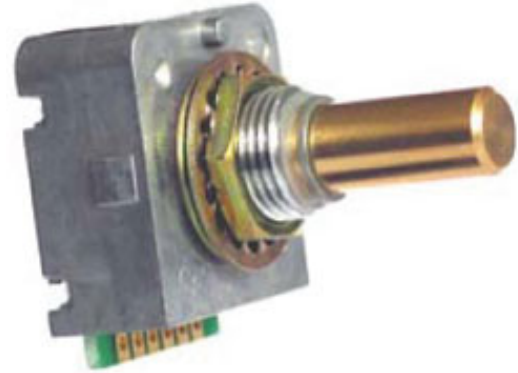


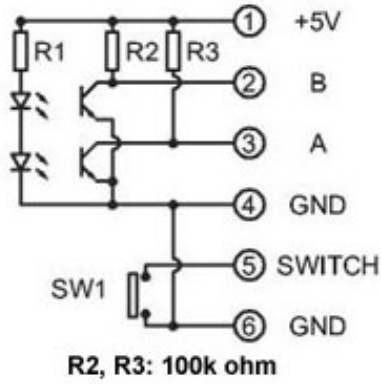
- **2 Channels**
- **Detents**
- **25 PPR Resolution**
- **1,000,000 Cycles Life**
- **Pushbutton Shaft Switch (MRXCT)**



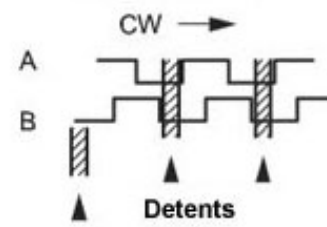
The MRXC series is an economical, reliable panel mount optical encoder. With a built in push button switch (MRXCT), it is suitable for manipulating multiple functions in any device. Low current draw and long life, the MRXC series rotary encoder is designed to address the most demanding applications.

Electrical Specifications	MRXC25	MRXCT25
Resolution	25 PPR	
Channels	2 (A,B)	
Frequency Response	100 Hz max.	
Supply Voltage	5 VDC \pm 5%	
Current Consumption	20 mA	
Output Current	-0.1mA max.	
Switch Type	-	SPST (push = on)
Switch Power Rating	-	12 VDC / 50mA
Switch Contact Resistance	-	200 Mohms max.
Switch Insulation Resistance	-	100 Mohms max.
Switch Voltage Withstand	-	250VAC, 1 minute
Switch Operating Force	-	306 ~ 612 gf (3 ~ 6 N)
Switch Travel	-	0.7mm \pm 0.3mm
Switch Bounce	-	10ms
Switch Life	-	1,000,000 cycles
Mechanical Specifications		
Rotational Life	1,000,000 cycles	
Detents	Yes	
RPM max.	240	
Rotational Torque	40 \pm 20 gf-cm max. (0.4 \pm 0.2 Ncm)	
Weight	20 grams	
Environmental Specifications		
Operating Temperature	0°C to +60°C	
Storage Temperature	-20°C to +80°C	
Vibration	10 - 55 Hz, 1.5mm, 2 hrs.	
Protection Grade	IP 40	
Materials		
Housing	Aluminum	
Shaft / Bushing	Metal	

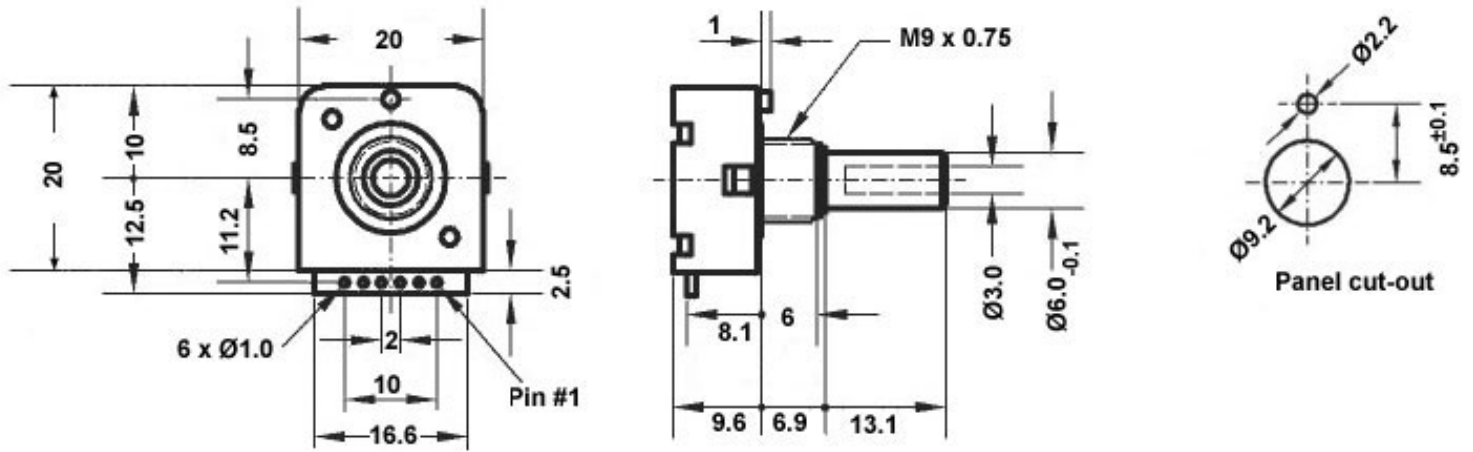
Schematic



Output Waveform



Dimensions (mm)



P3 America

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