

- 2 Channels
- 5VDC (3.3VDC Option)
- 25, 50 Pulses
- <10mA Current Consumption
- 1,000,000 Cycles Life
- Detents (MRBC)

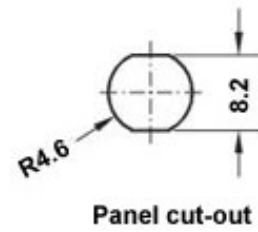
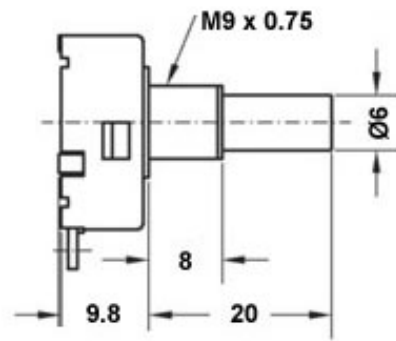
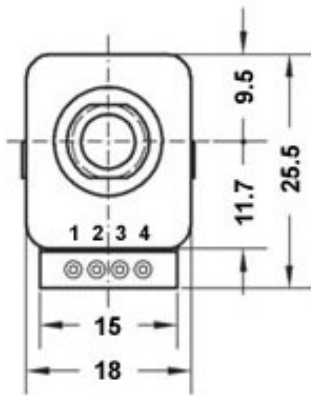


The MRB series optical encoders are a cost effective panel controller for manual set point adjustment. The low current consumption and optional 3.3V supply voltage make these optical rotary encoders ideal for battery powered applications.

Electrical Specifications	MRB	MRBC
Resolution	25,50 (PPR)	25 (PPR)
Channels	2 (A, B)	
Supply Voltage	5 VDC ±5% standard / 3.3 VDC ±5% optional	
Output Voltage (no load)	High: 0.5V minimum Low: 0.4V maximum	
Frequency Response	100Hz max.	
Current Consumption	max. 10mA (typical 7mA)	
Output	HMOS	
Mechanical Specifications		
Life	1,000,000 Cycles	
Detents	No	Yes
RPM max.	120 (cut-off frequency)	240 (cut-off frequency)
Rotational Torque	1 ~ 4 mN·m (0.14~0.57 oz. inch)	7 ~ 14 mN·m (1~2 oz. inch)
Weight	16 grams	
Environmental Specifications		
Operating Temperature	-20°C to +60°C	
Storage Temperature	-40°C to +85°C	
Vibration	10 - 55 Hz, 1.5mm, 2 hrs.	
Shock	50G, 11ms	
Protection Grade	IP 40	
Materials		
Housing	Die cast - galvanized	
Shaft / Bushing	Metal	

Schematic	Output Waveform

Dimensions (mm)



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