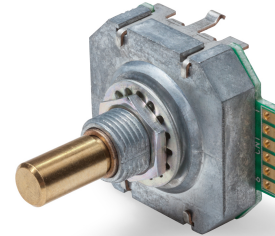


Series MRXC50, MRXCT50 - Optoelectronic, Manual Encoder

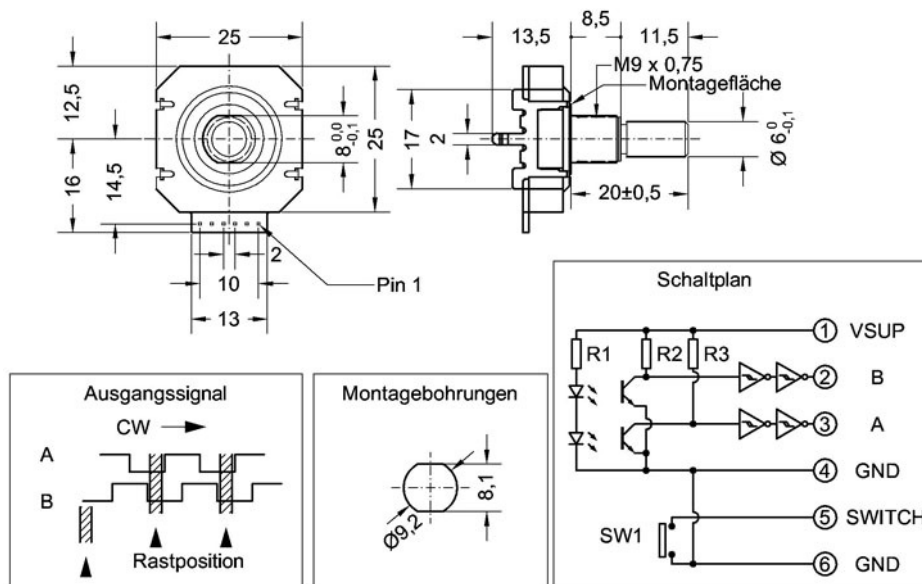
- Resolution 50 ppr
- 2 channels without index
- With click
- With integrated button (MRXCT)
- Compact design 25 x 25
- Supply voltage 5V (3,3V optional)
- Available from stock

This economic, miniature optical encoder offers a comparable high resolution for manual controls.

The mechanical smooth detents provide a highly tactile sensitivity. A push button function is integrated (normally open).



Drawing and Interfaces



Series MRXC50, MRXCT50 - Optoelectronic, Manual Encoder

Electrical Data

Pulses	50 ppr
Output channels	A, B
Limit frequency	100 Hz
Supply voltage	5 VDC $\pm 5\%$ / 3,3 VDC $\pm 5\%$
Supply current	30 mA

Mechanical Data Encoder

Life time	1 Mio. rev.
Revolution	120 rpm. (limit frequency)
Operational torque	0,4 $\pm$ 0,2 Ncm
Fastening torque mounting nut	< 1,0 Nm

Mechanical Data Button

Life time	1 Mio. Operations
Contact travel	0,7 mm $\pm$ 0,3
Contact force	3 - 6 N
Maximum voltage	12 VDC
Maximum current	50 mA
Resistance	< 200 mOhm
Duration of bounce	< 10 ms

Other Data

Protection class	IP00 / sealing on request
Operating temperature	0 ... +60°C
Storage temperature	-20 ... +80°C
Housing material	Aluminium plated
Shaft material	brass
Disc material	Metal
Bearing	Sleeve bearing
Vibration	10-55Hz 1,5mm 2h each direction
Maximum shock	50 g (11ms) (X, Y, Z 3-times)
Weight	20 g

Series MRXC50, MRXCT50 - Optoelectronic, Manual Encoder

Options and Ordercode

Series	MRX				
Without detent		- (*)			
With detent		C			
Without push button switch			-		
With push button switch			T		
50 ppr.				50	
<u>Supply voltage</u>					
5 V					5
3,3 V					3,3

The specifications and information in this datasheet cannot consider all special demands that are caused by the application. Because of this, they are no general description of the properties of the product.

23.04.2015 All specifications are subject to change without notice.