

Series MRXC50, MRXCT50 - Optoelectronic, Manual Encoder

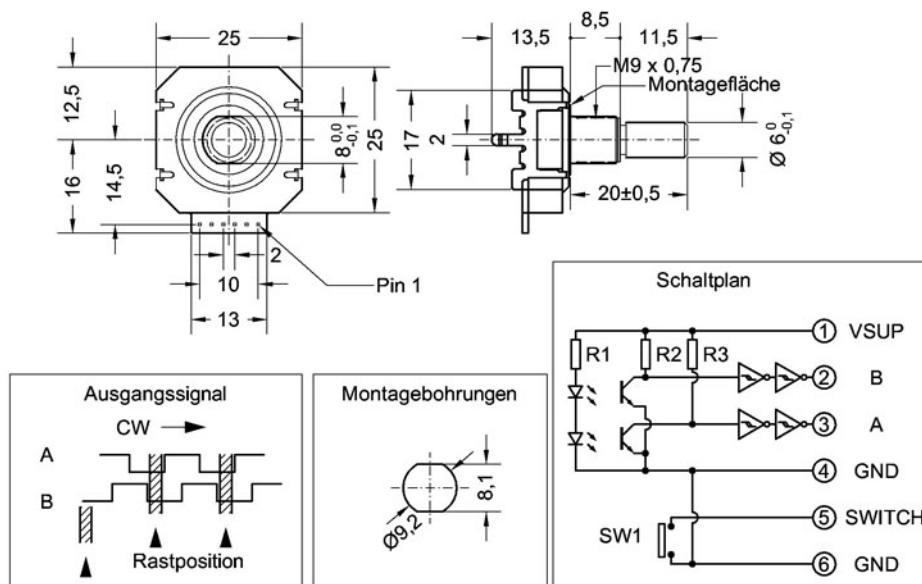
- Resolution 50 ppr
- 2 channels without index
- With click
- With integrated button (MRXCT)
- Compact design 25 x 25
- Supply voltage 5V (3,3V optional)
- Available from stock

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



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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	20 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	IP40
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

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Options and Ordercode

Description	Series	Options	
Type with click, without button	MRXC50		
Type with click and button	MRXCT50		
Supply 5V			-
Supply 3.3V (Option)			3.3
Example Ordercode (without button, supply 5V)	MRXC50	50	-
Example Ordercode (with button, supply 3.3V)	MRXCT50	50	3.3

Our speciality are custom solutions for reasonable prices, even for small quantities

Examples:

Customized shafts and housings. Mounting of gear wheels and other mechanical parts, assembling of cables, connectors and more. Please ask us.

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.

10. Juni 2010. All specifications are subject to change without notice.