Model MXT • Thru-Shaft Configuration

MXT-20/2.5"

MXT-9/2"

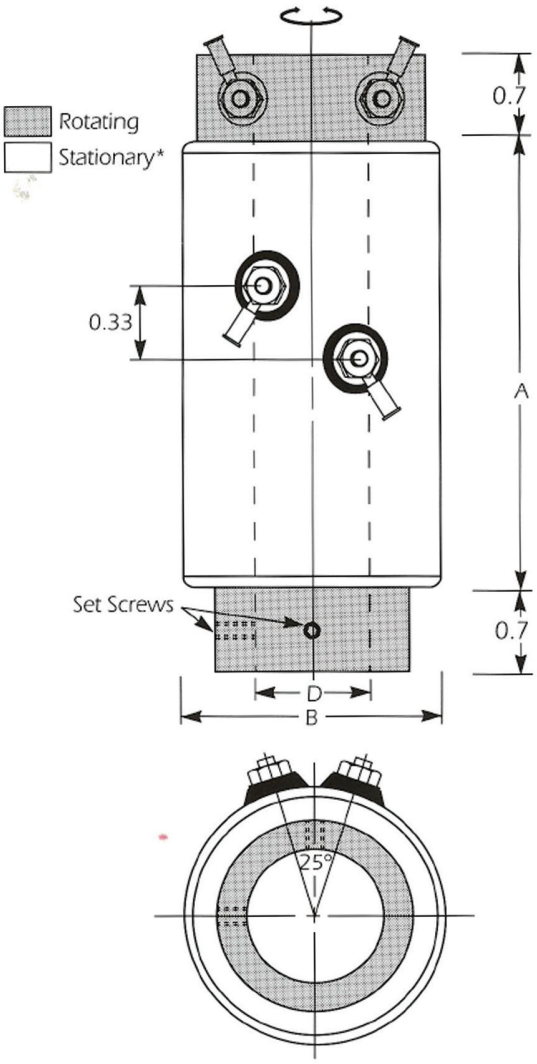
Model MXT Series of sealed rotary contacts is designed to expand the possible mounting choices to include "thru-shaft" configurations. By permitting the drive shaft to pass through the rotary contact, it becomes a simple matter to mount the MXT between existing machines with-out modification. Hydraulic and air lines can even pass through the center. A wide range of standard sizes makes the MXT extremely adaptable. Like all other ROTOCON designs, the MXT can handle low level control signals and power inputs in the same unit. Resistance, capacitance, and electrical noise are all minimized with the ROTOCON. The MXT series is commonly customized by Meridian Laboratory to fit existing machinery and satisfy unique electrical requirements. The MXT is generally recommended only when none of the end-of-shaft ROTOCON's can meet your mechanical requirements. In these cases, the versatile MXT Series can provide excellent electrical performance while also meeting strict mounting space limitations.

Specifications

Mechanical	
RPM	0-1,250 continuous.*
Mounting	Any end-of-shaft orientation is acceptable. Either the shaft or the housing must have a flexible coupling or link to the supporting structure. Housing rotation is prevented by an anti-rotation bolt with spring (standard) or support ring (optional).
Housing	Corrosion resistant steel.
Connections	Ring terminals on body and rotor are standard, connector/cabling options available.
General	Permanently lubricated bearings at both ends.
Electrical	
Voltage	Microvolts to 600 volts (higher voltage units available).
Current	Nano-amperes to 50A per channel.
Max Wire Gauge	Per customer requirements.
Frequency	DC-100Mhz (or higher using appropriately rated cable)
Stationary Contact Resistance	1m Ω (excluding lead wires)
Rotating Contact Resistance	Same as stationary resistance, no change with rotation.
Environmental	
Ambient Temperature	Not to exceed 160°F (70°C), assuming minimal heat flow through shaft and housing mounts. If machinery surfaces are hot, use insulated mounting systems.
Relative Humidity	No effect.

**Please contact Meridian Laboratory for unit specific ratings.*

Made In The USA



**Housing can rotate (end stud held stationary) if RPM's are low or if unit is balanced by Meridian Laboratory.*

Model No.	D	A	B
MXT-2/D	Note 4	3.0	2.5
MXT-2/1	1	3.3	3.0
MXT-2/2	2	3.7	4.25
MXT-2/3	3	4.2	6.0
MXT-2/4	3	6.5	7.25

Model MXT example sizes; units containing more contacts and larger thru-hole dimensions are also available.

Note 1: Dimensions subject to change without notice. If precise dimensions are required, contact Meridian Laboratory.

Note 2: Dimensions shown are for models with two contacts. The over-all length increases by 0.33 inches for each additional contact.

Note 3: The MXT models shown in the table are representative sizes. Most installations require a specific thru-shaft hole diameter and corresponding changes in overall dimensions. Larger sizes than those shown are also available.

Note 4: Thru-shaft size "D" can be any diameter less than 0.50 inches for the overall dimensions shown.

Features

- Thru-Shaft Mounting
- Fits Existing Equipment
- Combine Power And Control Signals
- Zero Maintenance
- No Electrical Noise
- Environmentally Sealed
- Rugged Design
- High Reliability
- Unaffected By Vibration
- Mount In Any Orientation

Call us today at **1 (800) 837-6010** to request a quote or visit us online at **www.MeridianLab.com** to learn more.