

Model MY • Increased Capacity



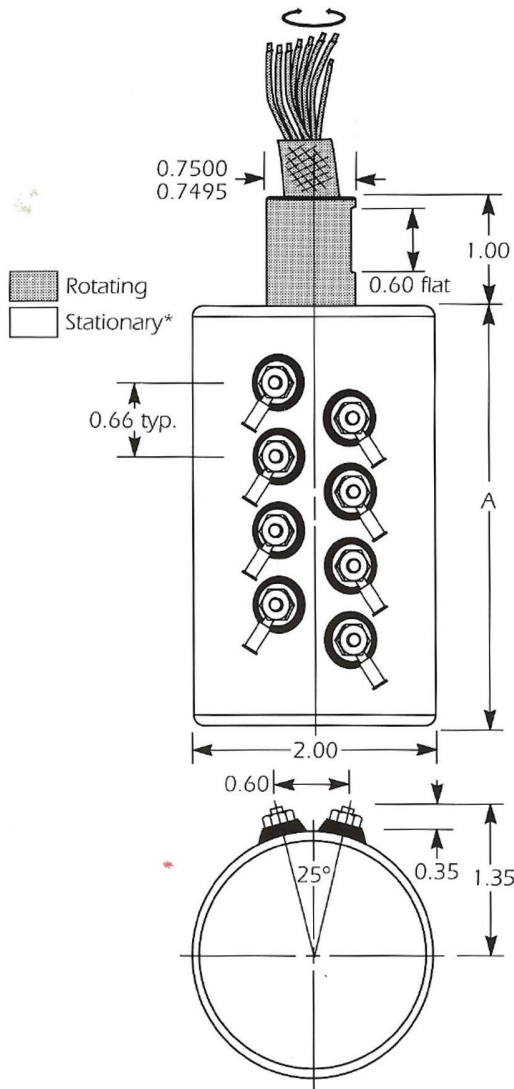
Model MY-21

Model MY is the mid-sized, end-of-shaft ROTOCON design. By increasing the shaft diameter up to 3/4 inch (allowing more lead wires to be installed) the MY can contain more than twice as many contacts as the model MX. Like other ROTOCON models, the MY is highly resistant to environmental conditions due to its corrosion proof, sealed design. Low resistance, capacitance, and noise make the MY ideal for transmitting large numbers of low level signals. Low voltage control signals and high power supply lines can be combined on different contacts in the same unit. Machine vibration and mounting orientation have no effect on the MY's electrical performance. As with all standard ROTOCON models, the MY can be customized to suit your specific electrical and mechanical requirements.

Specifications

Mechanical	
RPM	0-1,500 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 stainless steel.
Connections	Flying leads with ring terminals on body are standard, connector/cabling options available.
General	Permanently lubricated bearings at both ends.
Electrical	
Voltage	Microvolts to 600 volts. (Higher voltage units available using MYV option)
Current	Nano-amperes to 30A per channel.
Max. Wire Gauge	#12 AWG (MIL-W-16878 nickel plated, stranded copper wire with Teflon insulation). See Note 4 on back.
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 or optional MYW – water cooling add-on.
Relative Humidity	No effect.

*Please contact Meridian Laboratory for unit specific ratings.



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

Model No.	No. Of Contacts	A (in.)	Wt. (lb.)
MY-2	2	2.86	1.25
MY-4	4	3.52	1.75
MY-6	6	4.18	2.3
MY-8	8	4.84	2.8
MY-10	10	5.50	3.5
MY-12	12	6.16	3.9

Model MY example sizes; units containing more contacts are available.

- Note 1:** Dimensions subject to change without notice. If precise dimensions are required, contact Meridian Laboratory.
- Note 2:** Add 0.33 inches to length "A" and 4 ounces to the weight for each additional contact.
- Note 3:** Odd numbers of contact are available.
- Note 4:** The maximum allowable number of contacts is dependent on the size and type of wire needed to meet your requirements (teflon insulated, thermocouple leads, coaxial cable, twisted shielded pairs, or any combination of these). The maximum h insulated wire gauge is #12. Wires can be connected in parallel for increased current capacity.

Applications

- Transducer Signals:
 - Strain Gages
 - All Types Of Thermocouples
 - RTD's
 - LVDT's
 - Ultrasonic Gages
 - Eddy Current Probes
- DC/AC Power to 40A Per Contact
- Servo & Stepper Motor Control Signals
- Power Input & Temperature Control of Heated Rollers
- Instrumentation Signals
- Video Signals
- Communications
- Digital Data Transmissions

Features

- Zero Maintenance
- No Electrical Noise
- Environmentally Sealed
- Rugged Design
- High Reliability
- Unaffected By Vibration
- Mount In Any Orientation
- Combine Power & Control
- 95% Energy Efficient
- End of Shaft Mounting
- Fits Existing Equipment

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