



MX230 Series Slip Ring/Rotary Union

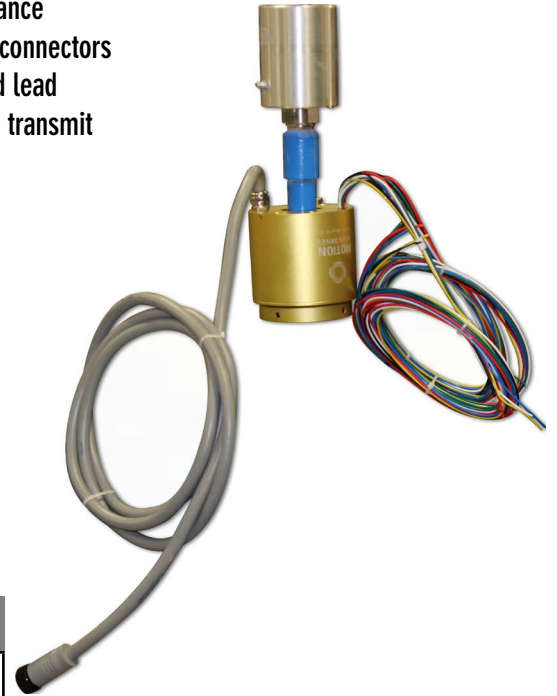
MX230 series provides a long life, fiber brush contact technology for ultimate performance in many challenging applications. Dedicated flying leads with specific communication connectors for easy install. MX230 series are standard with flying leads of 72 inches. Color-coded lead wires are used on both the stator and rotor for simplified electrical connections. It can transmit signal (2A), 10A current at max 600VAC/VDC.

Air Union Specification

Air Pressure	150 PSI
Air Temp	250 F
Hydraulic Temp	250 F
Max Speed	1500 RPM
Vacuum Pressure	28 InHG
Vacuum Temp	250 F

Lead Wire Color Codes

Rings #	Color Code	Rings #	Color Code	Rings #	Color Code
1	BLK	5	YEL	9	GRY
2	BRN	6	GRN	10	WHT
3	RED	7	BLU	11	PINK
4	ORN	8	PURPLE	12	CYAN



Specifications

Rings	2~96(see next page)	Current	Signal(2A),10A
Voltage	600 VDC/VAC	Max speed	1000RPM
Through Bore Size	38.1mm(1.5")	Overall diameter	99mm(3.9")
Housing Material	Aluminium Alloy	Torque	0.05N.m;+0.03N.m/6rings
Working Life	Depends on speed	Contact material	Precious Metal:Gold-Gold
Electrical Noise	<5 mOhm	Contact Resistance	<2mOhm
Dielectric Strength	800VDC@50Hz	Lead Wire	UL Teflon® Awg22,Awg16
Insulation Resistance	1000MΩ@600VDC	Lead Lengths	300mm(12")
Operating Temp.	-40°C to 80°C	Protection	IP51
Mechanical Vibratio	MIL-SID-810E	Humidity	10% to 85% RH
Materials	Lead Free,RoHS compliant	Certified	YES

Parts List

Ethernet Connector				
Part #	#Circuits	AMP	Comm. Ports	Communication
MX230-02	6	10	1	Ethernet RJ45
MX230-03	12	10	1	Ethernet RJ45
MX230-04	18	10	1	Ethernet RJ45
MX230-05	24	10	1	Ethernet RJ45

Device Net				
Part #	#Circuits	AMP	Comm. Ports	Connector
MX230-12	6	10	1	Device Net 5 pin Micro
MX230-13	12	10	1	Device Net 5 pin Micro
MX230-14	18	10	1	Device Net 5 pin Micro
MX230-15	24	10	1	Device Net 5 pin Micro

Canbus				
Part #	#Circuits	AMP	Comm. Ports	Connector
MX230-17	6	10	1	Canbus 9 pin D-sub
MX230-18	12	10	1	Canbus 9 pin D-sub
MX230-19	18	10	1	Canbus 9 pin D-sub
MX230-20	24	10	1	Canbus 9 pin D-sub

Profibus				
Part #	#Circuits	AMP	Comm. Ports	Connector
MX230-07	6	10	1	Profibus 9 pin D-sub
MX230-08	12	10	1	Profibus 9 pin D Sub
MX230-09	18	10	1	Profibus 9 pin D Sub
MX230-10	24	10	1	Profibus 9 pin D Sub

*Please note that all listed voltage and current ratings refer to individual channel/pins only. The overall ampacity of the system is defined by the number of channels in the system.

*As a rule of thumb a 10 channel system has a conversion factor of about 0.5, meaning while each channel can handle for example 10A, the total amperage on all channel should not exceed 50A to prevent overheating. On a 20 channel system the conversion factor reduces to about 0.4, meaning the total amperage should not exceed 20 (channel) x 10A (per channel x 0.4 (conversion factor) = 80A. The mentioned conversion factor are worst case estimates when operating the slip ring above 50 deg C (122 deg F) and in a closed and tight environment without any airflow and no chance for the heat to escape.