

MAGNETIC SENSOR BAR

AB-MG-CNS-MLS-640N&AB-MG-CNS-MLS-480N&AB-MG-CNS-MLS-320N&AB-MG-CNS-MLS-160N

ATOMBOTIX



- Detection range: 640 mm
- Point spacing: 10 mm
- Number of switch points: 8
- Accuracy: 1 mm
- Communication: RS232, RS485, CAN BUS, CAN OPEN
- IP Ratings: IP65

Model	AB-MG-CNS-MLS-160N	AB-MG-CNS-MLS-320N
Performance Parameters		
Detection Height	0 - 50 mm (@ 90 Gauss magnetic stripe)	0 - 50 mm (@ 90 Gauss magnetic stripe)
Detection Range	±75 mm	±155 mm
Detection Accuracy	1 mm	1 mm
Number of Detection Points	16	32
Distance between Detection Points	10 mm	10 mm
Sensor Sensitivity	0-9 Level (Configurable)	0-9 Level (Configurable)
Induction Polarity	N-pole, S-pole, NS-pole (Configurable)	N-pole, S-pole, NS-pole (Configurable)

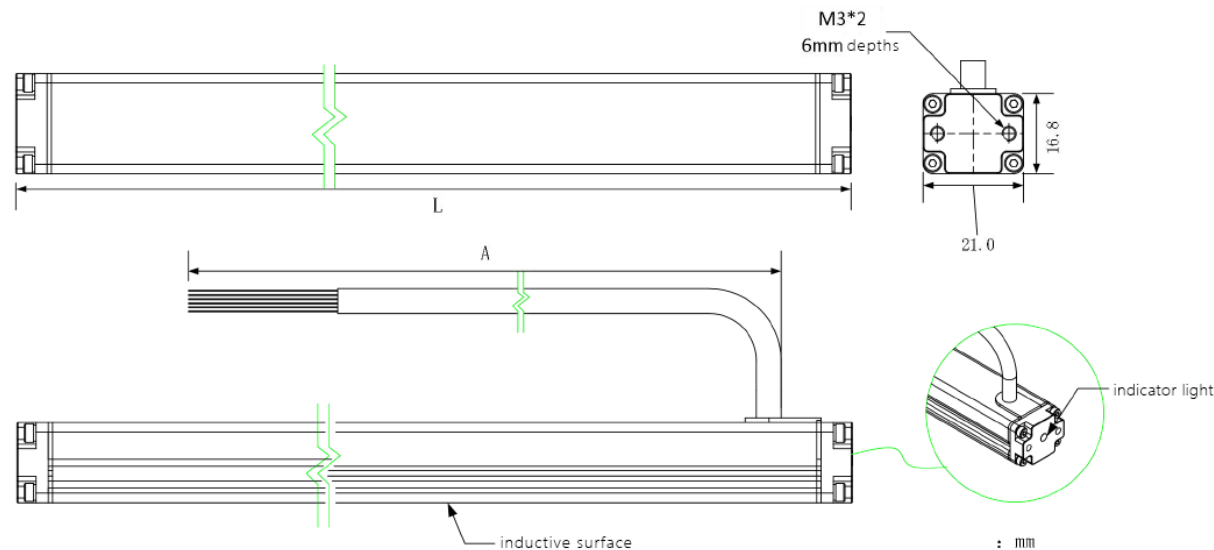


Detection Signal	N/S pole magnetic field signal	N/S pole magnetic field signal
Response Time	5 ms	5 ms
Basic Error	1 mm	1 mm
Detection Magnetic Field Strength Range	1.5-165 Gauss	1.5-165 Gauss
Number of Supported Magnetic Strips	3	3
Electrical Parameters		
Retad Voltage	24V ± 10%	24V ± 10%
Working Volatge	DC 12-36V	DC 12-36V
Working Current	< 20 mA (Typical Value)	< 20 mA (Typical Value)
Power	≤ 7 W	≤ 7 W
Basic Parameters		
Interface	RS232, RS485, Modbus, CAN	RS232, RS485, Modbus, CAN
Recommended Magnetic Rail Specification	Width: 30/50 mm, Thickness: 1.2 mm	Width: 30/50 mm, Thickness: 1.2 mm
Recommended Magnetic Strip Specification	10-30 mm in diameter	10-30 mm in diameter
Magnetic Strip Position Deviation Data	Supported	Supported
Magnetic Field Strength Detection Data	Supported	Supported
Position Output	Supported	Supported
Switch Signal Output	Supported (Comm. output for switching values only)	Supported (Comm. output for switching values only)
Track Selection Function	Supported (Left branch, Straight, Right branch commands)	Supported (Left branch, Straight, Right branch commands)
Environmental Parameters		
Temperature	-10°C - 50°C, indoor	-10°C - 50°C, indoor
Humidity	< 80% Rh, without codensation and frosting	< 80% Rh, without codensation and frosting
Background Magnetic Field	< 1Gauss	< 1Gauss



Model	AB-MG-CNS-MLS-480N	AB-MG-CNS-MLS-640N
Performance Parameters		
Detection Height	0 - 50 mm (@ 90 Gauss magnetic stripe)	0 - 50 mm (@ 90 Gauss magnetic stripe)
Detection Range	±235 mm	±315 mm
Detection Accuracy	1 mm	1 mm
Number of Detection Points	48	64
Distance between Detection Points	10 mm	10 mm
Sensor Sensitivity	0-9 Level (Configurable)	0-9 Level (Configurable)
Induction Polarity	N-pole, S-pole, NS-pole (Configurable)	N-pole, S-pole, NS-pole (Configurable)
Detection Signal	N/S pole magnetic field signal	N/S pole magnetic field signal
Response Time	5 ms	5 ms
Basic Error	1 mm	1 mm
Detection Magnetic Field Strength Range	1.5-165 Gauss	1.5-165 Gauss
Number of Supported Magnetic Strips	3	3
Electrical Parameters		
Retard Voltage	24V ± 10%	24V ± 10%
Working Voltage	DC 12-36V	DC 12-36V
Working Current	< 20 mA (Typical Value)	< 20 mA (Typical Value)
Power	≤ 7W	≤ 7W
Basic Parameters		
Interface	RS232, RS485, Modbus, CAN	RS232, RS485, Modbus, CAN
Recommended Magnetic Rail Specification	Width: 30/50 mm, Thickness: 1.2 mm	Width: 30/50 mm, Thickness: 1.2 mm
Recommended Magnetic Strip Specification	10-30 mm in diameter	10-30 mm in diameter
Magnetic Strip Position Deviation Data	Supported	Supported
Magnetic Field Strength Detection Data	Supported	Supported
Position Output	Supported	Supported

Switch Signal Output	Supported (Comm. output for switching values only)	Supported (Comm. output for switching values only)
Track Selection Function	Supported (Left branch, Straight, Right branch commands)	Supported (Left branch, Straight, Right branch commands)
Environmental Parameters		
Temperature	-10°C – 50°C, indoor	-10°C – 50°C , indoor
Humidity	< 80% Rh, without codensation and frosting	< 80% Rh, without codensation and frosting
Background Magnetic Field	< 1Gauss	< 1Gauss



Model	Length (L)
AB-MG-CNS-MLS-160N	175mm
AB-MG-CNS-MLS-320N	335mm
AB-MG-CNS-MLS-480N	495mm
AB-MG-CNS-MLS-640N	655mm

