

Model MGG-830-N301 8-bit Magnetic Sensor Address for Transfer Machine



□Model List

8 detection points	MGG-830-N301
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Application

- Automatic guided vehicles guidance

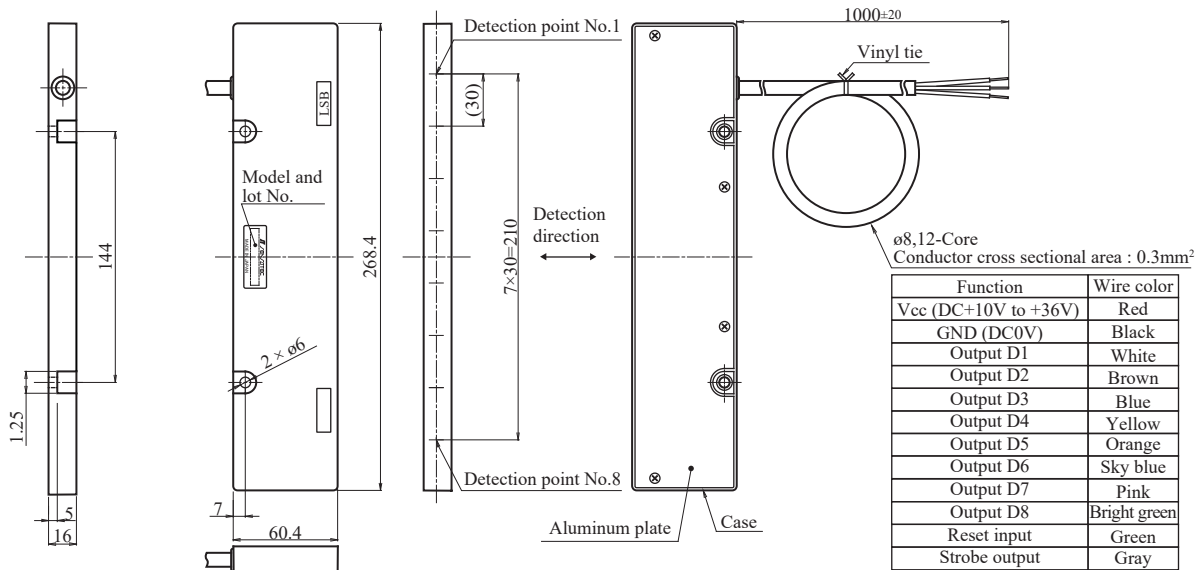
Characteristics

- Regardless of the passing direction of AGV and output the exact address pointer.
- Address of 256 points can be identified by the binary signal of 8BIT.
- There is a magnetic address plate form MG100-1R5-P30B8 (optional). Please use a combination sure.

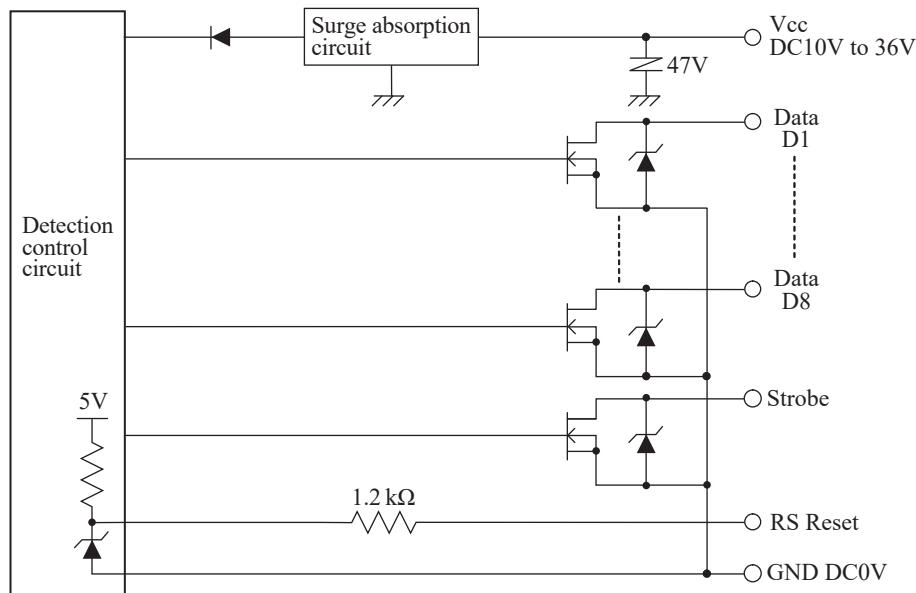
Rating / Performance

Model name	MGG-830-N301
Detection Surface	Front side detection
Detection Sensitivity	300 μ T \pm 100 μ T (With a rubber plate magnet of 30 \times 30 \times t1.5 mm)
Power Supply Voltage	10 V DC or more to 36 V DC or less
Power Consumption	100 mA DC or less (With 12 V DC), 50 mA DC or less (With 24 V DC)
Output	Latch output Nch MOSFET open drain normally open
Output Residual Voltage	0.5 V DC or less (Load current 100 mA DC)
Control Input and Output	Strobe output signal : One-shot output \cdot 100ms or more Reset input signal : GND Short \cdot 1ms or more
Number of Detection Points and Pitch	8 point / 30 mm
Number of Address	8 bit binary code (256 point)
Response Time	1 ms or less
Operating Set Distance	12 to 28 mm (Magnetic sensor address - Magnetic address plates)
Data Polarity	N pole
Circuit Protection	Power reverse connection protection diode, and output surge protection diode
Operating Temperature Range	-10 to 60 $^{\circ}$ C (-20 to 70 $^{\circ}$ C during storage)(Without dew condensation or freezing)
Operating Humidity Range	95% RH or less (95% RH or less during storage) (Without dew condensation)
Withstand Voltage	1 min at 500 V AC or less (Between the live part and installation part)
Insulation Resistance	100 M Ω or more measured with an ohmmeter at 500 V DC (Between the live part and installation bracket part)
Vibration Resistance	Durability : 2 hours in each X, Y, Z direction at 10 to 55 Hz and with peak-to-peak amplitude of 1.5 mm (At power off)
Shock Resistance	Durability : 3 times at 500 m/s ² (approx. 50 G) in each X, Y, Z direction (At power off)
Protection Rating	IP67 (The cable lead-out portion of the sensor, fixed as there is no load and bending)
Case Material	Case : ABS, Aluminum plate t1.5 (Anodized aluminum, black)
Cable	ϕ 8, 12-core round cord of 0.3 mm ² and 1 m in length (Oil resistant)

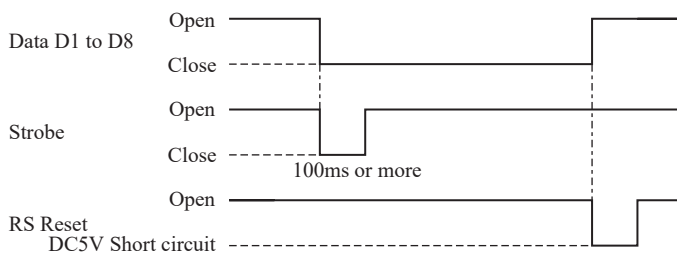
External Dimensions Diagram



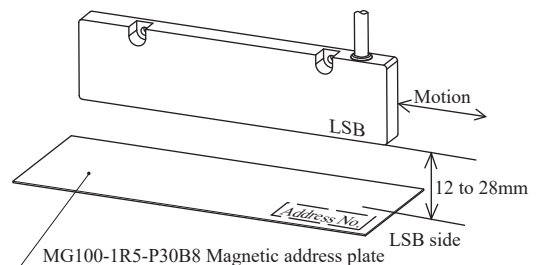
Output Circuit



Timing Diagram



Setting with Magnetic Address Plate



Usage Precautions

1. Please be sure to use to match the direction of the magnetic sensor address LSB and magnetic address plate of LSB (address No. display section).
2. If there is a magnetic material to the mounting portion and the surrounding magnetic address sensors, about 1.5 times more magnetic address sensor and magnetic address plates and release the (about 50mm) distance, please use after confirming the well-detection characteristics.
3. The output of the data is the latch output to hold until you enter the reset signal. After the magnetic address sensor is completely away from the magnetic address plate, please reset input.
4. If you are using a magnetic address plate is used to specify the address No.. The address is up to 0-255.

*See General usage precautions for automatic guided vehicles electromagnetic sensors for other precautions.

*For a detailed specification of the other, please refer to specifications.