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# MG232 MAGNA

*IP67 Enclosed Linear Measuring System*

**The MG232 MAGNA enclosed high-speed linear encoders offer ease of installation and Unsurpassed robustness to Oil, dust and coolants. Ideally suited for shop floor and dirty environments they can be used as a direct alternative to linear optical encoders.**

RATED TO IP67

- **Available in Industry accepted IP67 Protection class**
- **Combines the ease of mounting of Optical encoders with the robustness of Magnetic measuring systems**
- **Custom reference mark available on request**
- **Available in 1 µm and 5 µm resolutions for Machine tool application, available in 0.5 µm and 0.1 µm resolutions for Profile Projector application**
- **Available in lengths up-to 3040 mm**
- **Suitable for High speed applications**
- **CE Compliant**

Milling Machine

Grinding Machine

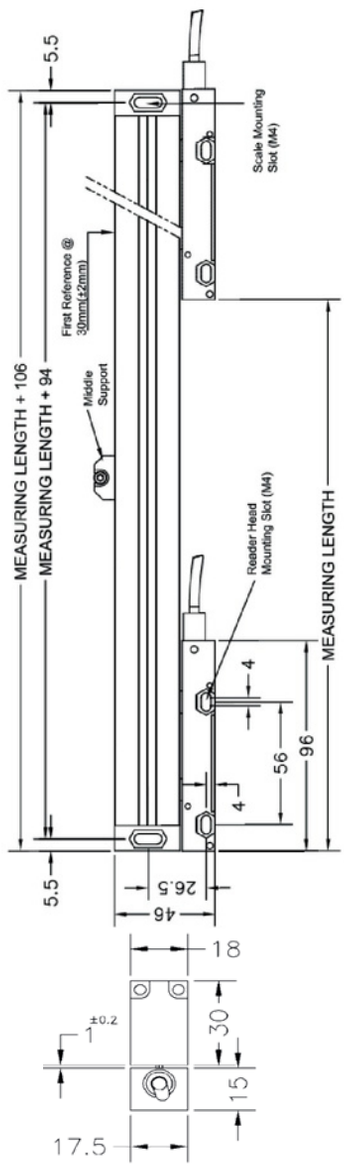
Profile Projector

# MG232 MAGNA

**IP67 Enclosed Linear Measuring System**

## Specifications

| | |
|---|---|
| Resolution | 0.1 / 0.5 / 1 / 5 µm |
| Pole Pitch | 2mm |
| Accuracy Class | ± 10 µm per meter |
| Repeat Accuracy | ± 1 Resolution Count |
| Measuring Lengths (mm) | 120, 170, 220, 270, 320, 370, 420, 470, 520, 620 720, 770, 820, 920, 1020, 1120, 1240, 1340, 1440, 1540, 1640, 1740, 1840, 1940, 2040....upto 3040mm |
| Current Consumption | Typ. 150mA (250mA max) |
| Power Supply | + 5 VDC (± 5%) |
| Output Signal | RS422 |
| Reference Mark | At 30mm from start then after every 50mm |
| Operating Temperature | 0°C to 50°C |
| Storage Temperature | -20°C to 70°C |
| Relative Humidity | 20% to 80% Non-condensing |
| Standard Cable Length | 3 meter up to 820mm armoured type<br>5 meter above 820mm armoured type |
| Max. Cable Length | 20 meters |
| Measurement Speed | 2 Mhz (10m/s at 5µm res., 2m/s at 1µm res.<br>1m/s at 0.5µm and 0.1µm resolution) |
| Protection Class | IP67 |




## Pin Connections

**RS422 Armoured Cable**

| Pin | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| Signal | + Z | - Z | VCC | Shield | GND | + A | - A | - B | + B |
| Colour | Grey | Brown | Black | Violet | White | Pink | Red | Green | Yellow |

RS422 Non-armoured Cable

| Pin | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| Signal | + Z | - Z | VCC | Shield | GND | + A | - A | - B | + B |
| Colour | Brown | Black | White | Violet | Blue | Red | Orange | Green | Yellow |

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CE RoHS

Dealer Stamp

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Owing to continuous product Research and Development designs and specifications are subject to change