

# 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  $\mu\text{m}$  and 5  $\mu\text{m}$  resolutions for Machine tool application, available in 0.5  $\mu\text{m}$  and 0.1  $\mu\text{m}$  resolutions for Profile Projector application
-  Available in lengths up-to 3040 mm
-  Suitable for High speed applications
-   Compliant



Milling Machine



Grinding Machine



Profile Projector

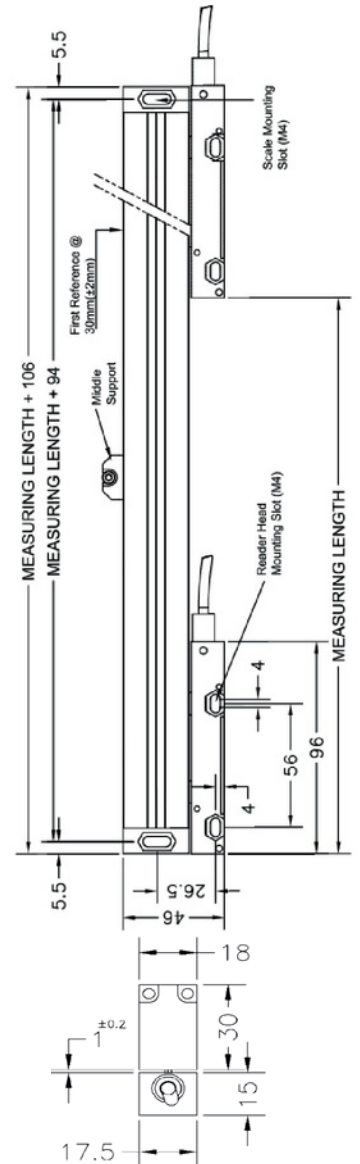
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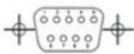


## Specifications

Resolution	0.1 / 0.5 / 1 / 5 $\mu$ m
Pole Pitch	2mm
Accuracy Class	$\pm 10 \mu$ m per meter
Repeat Accuracy	$\pm 1$ 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 ( $\pm 5\%$ )
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 5 meter above 820mm armoured type
Max. Cable Length	20 meters
Measurement Speed	2 Mhz (10m/s at 5 $\mu$ m res., 2m/s at 1 $\mu$ m res. 1m/s at 0.5 $\mu$ m and 0.1 $\mu$ m 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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mechatronic systems

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Dealer Stamp