

# GS212 Optical Encoder

## Optical Linear Measuring System









Our range of Glass optical encoders implement a custom designed opto-ASIC enabling them to operate in some of the harshest environments possible without compromising the quality of the output signal. With a global customer base our products continue to provide proven accuracy & reliability for machine tool and automation applications.



**RATED TO  
IP54**



Laser testing facility

-  Available in RS422, 11µA and 1 Vp-p
-  Rated to **RATED TO IP54** Protection class
-  Resolution available upto 0.1µm
-  Ideal for CNC applications
-  Backlash free operation
-  Bearing construction ensures less friction during movement
-  **CE** And  Compliant



CNC EDM Machine



Profile Projector



Grinding Machine

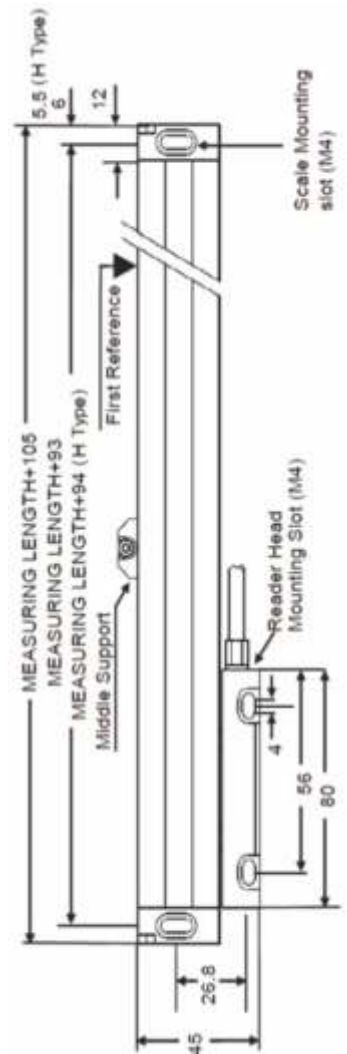


# GS212

## IP54 Optical Encoder System

### Specifications

Resolution	0.1 / 0.5 / 1 / 5 / 10 $\mu$ m
Grating Pitch	40 $\mu$ m
Accuracy Class	$\pm 5$ / $\pm 10$ / $\pm 20$ $\mu$ m
Resolution	$\pm 1$ Resolution Count
Measuring Lengths (mm)	70, 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 or more... Customised length available on request
Current Consumption	Typ. 150mA (250mA max)
Power Supply	+ 5 VDC ( $\pm 5\%$ )
Output Signal	RS422, 11 $\mu$ A, 1 Vp-p
Reference Mark	At 15mm from start then after every 25mm/50mm
Operating Temperature	10°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 or non-armoured 5 meter above 820mm armoured or non-armoured
Max. Cable Length	20 meters
Measurement Speed	2 m/s at 1 $\mu$ m and above resolutions 0.5 m/s below 1 $\mu$ m resolutions
Protection Class	IP54
Connector Options Available	



**Passion for Excellence**

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Dealer Stamp