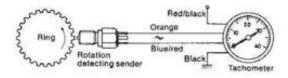
6. Tachometer

6-1 Construction of tachometer

The tachometer indicates the number of revolutions per minute by means of an electrical input signal which is generated as a pulse signal from the magnetic pickup sender (MPU sender).

The function of the sender is to convert the rotary motion into an electrical signal by means of counting by the number of teeth of the ring gear fitted to the flywheel housing.

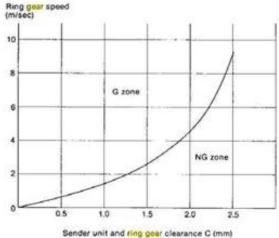


6-2 Specifications and dimensions of tachometer

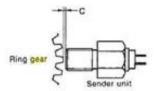
(1) Specifications

fil obeau	- Contraction			
		1GM10(C) 2GM20(F)(C) 3GM30(F)(C)	3HM35(F)(C)	
Rated voltage		DC 12V		
Rango of operating voltage		10 ~ 15V		
Illumination		3.4W/12V		
Ring gear	No. of teeth	97	114	
	Module	2.54	2.54	
Part No. of tachometer		128170-91100	128670-91100	
Part No. of sender unit		128170-91160	128170-9116	
WASHINGTON OF THE OWNER.				

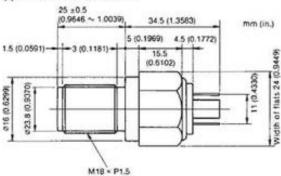
(2) Sensitivity limit of sender unit



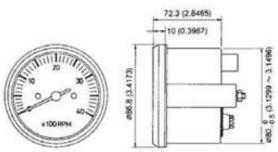
Serioes of the and ting year clearance C (mm

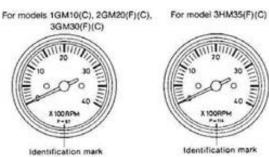


(3) Dimensions of sender unit



(4) Dimensions and shape of tachometer



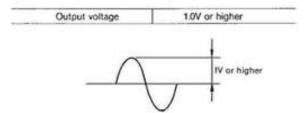


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Synchroscope

6-3 Measurement of sensor unit characteristics

(1) Measurement of output voltage



Measuring conditions

Number of teeth of

ring gear:

and sender:

97,114

Gap between the ring gear

1.3mm (0.0511in.)

Resistance: Speed of ring gear: 20kΩ 500 rpm (approx. 800Hz)

Measuring temperature: 20°C

Measuring instrument: Synchroscope

Ring gear No. of teech 97 or 114

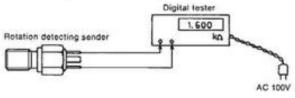
 Check the output wave pattern and number of pulses when carrying out the output voltage measurement.

(2) Measurement of internal resistance

Measuring conditions

Measuring temperature: 20°C

Measuring Instrument: Digital tester



6-4

Fault	Diagnosis		Remedy	
Does not function well. 1) Pointer does not move. 2) Functions intermittently.	Check if there is an open-circuit cable connection at the rear of the meter, a loose or disconnected terminal, or bad continuity due to corrosion.	Yes	Make good the connection.	
	Disconnect at the instrument terminals, and measure the voltage between the cable terminals. (To be 10 ~ 16V)	No	If the input voltage is abnormal, check the cause. (e.g. shot-circuit, disconnec- tion, or blown fuse, etc.)	

Check if the sender is loosely fitted.	Yes	Fix the sender securely.
No Tachometer send	der	
Measure the internal resistance of the sender. (To be 1.6 ±0.1kΩ at 20°C)	No	Replace the sender.
Measure the output voltage of the sender. (To be 1V or higher at 20°C)		Replace the sender.