GYAF1 Probe

Flat-head probe with integrated controller

The GYAF1-probe is an all-in-one type sensor with integrated

After supplying DC24V to the probe, an analogue voltage and/or current, which are proportional to the position of the magnet, can be obtained.

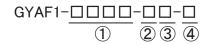
Reversed output or bipolar output can be supported as well. The flat head permits a miniaturized application, and the flange makes the installation easier, compared with the conventional screw type probes.

Specifications

Accuracy	Non-linearity	< ±0.025%FS TYP
	Resolution	< 0.01%FS
	Repeatability	< ±0.01%FS
	Temp drift	< 40ppm FS/°C
Output	Voltage output	0~10V or 10~0V
		(output current:Max.5mA、load:Min.2k Ω)
	Current output	4∼20mA or 20∼4mA
		(load:Min.500Ω)
Power supply		+24(±2)VDC (100mA)
Frequency response		Std 1kHz(depending on stroke) sampling
Environment	Admissible press.	35MPa(probe rod)
	Operating Temp	-20°C ~ +80°C
	Storage Temp	-40°C ~ +80°C
	Vibration	6G(or 40Hz 2mmPP)
	Shock	50G(2msec)
	Protection	IP67 (Option: IP68)

•The above mentioned accuracy applies to sensors with an effective stroke of 300mm or more.

Model No.



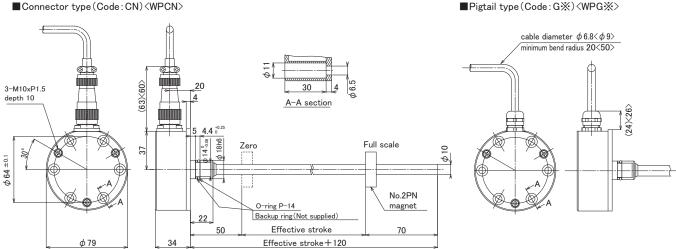
- 1)Effective stroke 15mm~3000mm
- 2Output A:0~10V B:4~20mA
- C: others (bipolar)
- 3Direction of output (toward probe tip) D: output data increase
- R: output data decrease

- 4 Cable connection
 - CN: Connector type IP67 (Standard)
- GX: Pigtail type IP67 WPCN: Connector type IP68 WPGX: Pigtail type IP68
- (X: Cable length(m))
- ·With mating connector · Cable with mating connector is

available.

Dimensions

■Connector type(Code:CN)<WPCN>



- •Material probe head: SS304, probe rod: SS304
- •Standard magnet: No.2PN. Other magnets are available from Magnet Grouping 「GG」(P.33).
- •The tip dead zone length (70mm) depends on the magnet or float type.
- •The length of the cable should be less than 10m in case of using the voltage output type and 100m in case of using the current output type.
- •CN type: Sanwa SNW-1607-PCF (Material: zinc alloy fluoroplastic), WPCN type: Tajimi TC1108-12A10-7F(8.6) (Material: brass with Ni plating)
- •Wire size: less than 0.5mm²
- •The figure in < > is the figure of IP68 type(WPCN, WPG*).
- •Applicable O ring type is P-14. Back-up ring is strongly suggested in usage.