

All-in-one Series

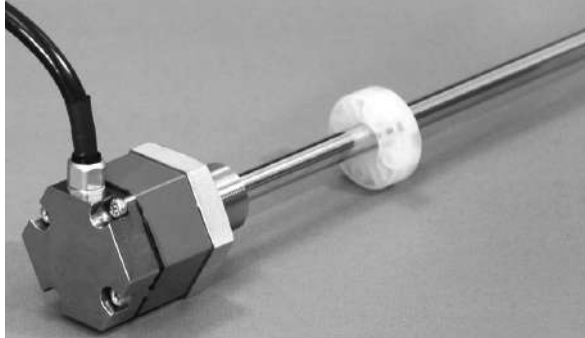
GYMRS Probe

SSI

GPM

Noise
Cancel

Thin head SSI output (detachable probe element)



GYMRS probe outputs displacement of the magnet as SSI (Synchronous Serial Interface). SSI is output of a serial communication-type and outputs the position data of 24 – 27bit. When using SSPC-03 of separate sale, you can convert SSI to parallel data. So you can get the data in the I/O unit. The inside probe element can be detached from the outer housing, and with the captive software (GPM), zero and gain adjustment is possible at user side.

Specifications

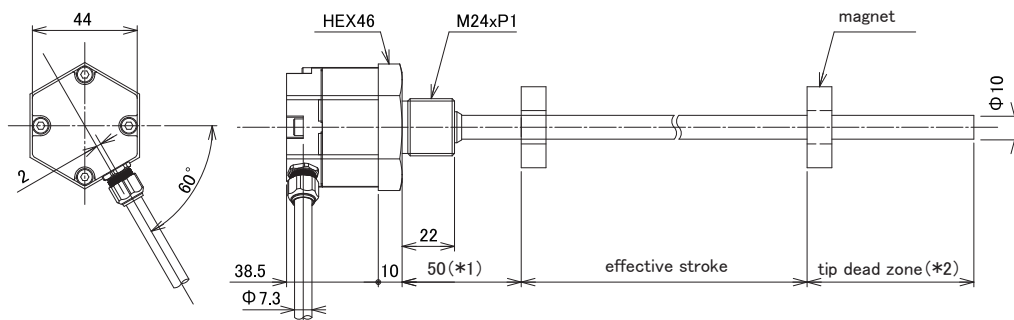
Accuracy	Non-linearity	$\leq \pm 0.025\%FS$ (Typ.)
	Resolution	0.1mm ~ 0.1 μm
	Repeatability	$\leq 0.001\% FS$ (Min. $\pm 3 \mu m$)
	Temp. drift	20ppm FS/°C
Output	Position (Std.)	SSI (Synchronized Serial Interface), 24 ~ 27bit, Binary (Std.) or Gray
	Velocity (option)	not available
	Alarm output	Open drain 50V 0.1A (for magnet missing)
	Power supply	DC24V ($\pm 2V$) 70mA
Environment	Sampling frequ. (*)	Std. 1kHz (total rod length : up to 1250mm)
	Operating temp.	-20°C ~ +75°C
	Storage temp.	-40°C ~ +75°C
	Vibration	15G (10 ~ 100Hz)
	Shock	100G (2ms)
	IP grade	IP67 (Rod type)

- The above mentioned accuracy applies to sensors with an effective stroke of 300mm or more.
- The specification of stroke less than 300mm is equal that of stroke 300mm.
- (*) Sampling freq. is available to Max.

<Correction: Feb. 24, 2022>
(total rod length : Max. 1300mm)

Dimensions

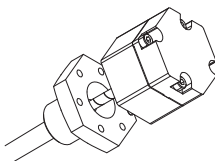
Probe



*1) In case of an effective stroke 3001mm or more, head dead zone is 100mm. (Model code ② : 100)

*2) In case of an effective stroke 3001mm or more, tip dead zone is "standard length + 30mm". (Model code ③ : 100/120/130)

Detachable probe element



<Material>

Probe head: Aluminum alloy, Probe rod: SUS304
The tip dead zone dimensions vary depending on the magnet and float.

Cable

Wire color	Function
red	DC24V
white	0V
blue	DATA+
green	DATA-
brown	CLK+
black	CLK-
yellow	Alarm

- The connection method between the probe and sensor cable is pigtailed only.
- The probe and sensor cable cannot be separated in the pigtail type.

