

GYSE-S-PF Probe

SSI

GPM

Noise
Cancel



SSI output (detachable probe element)



This is the linear profile version of GYSE-S. GYSE-S 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 24bit. When using SSPC-02 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~0.001mm specified
	Repeatability	$\leq \pm 0.001\%FS$ (Min. $\pm 3 \mu m$)
	Temp. drift	$\pm 15ppmFS/^{\circ}C$ 以
Output	Position (STD)	SSI(Synchronized Serial Interface), 24~27bit, Binary(STD) or Gray
	Velocity (Option)	not available
	Alarm	Open drain 50V 0.1A (for lost magnet)
Environment	Power supply	+24(± 2)VDC (70mA)
	Sampling freq.	Std 1kHz(total body length:up to 1250mm)
	Operating temp.	-20 $^{\circ}C$ ~+75 $^{\circ}C$
	Storage temp.	-40 $^{\circ}C$ ~+75 $^{\circ}C$
	Vibration	15G (20~100Hz)
	Shock	100G (2msec)
	IP grade	IP65

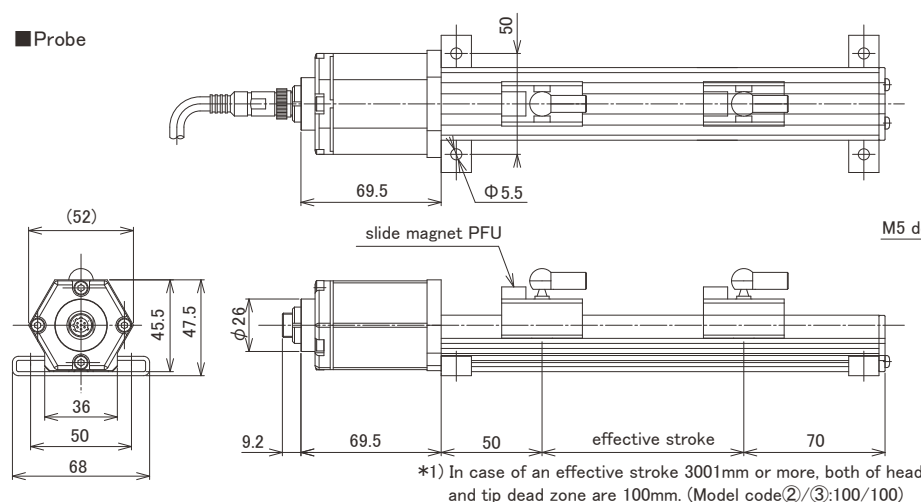
- The above mentioned accuracy applies to sensors with an effective stroke of 300mm or more.
- The specification of stroke less than 300mm is equal that of stroke 300mm.
- (*) Sampling frequency : Max. 3.75kHz (It depends on the total body length (shows in Model ⑨), and the consumption current increases.)

• Fixing clamps are supplied.

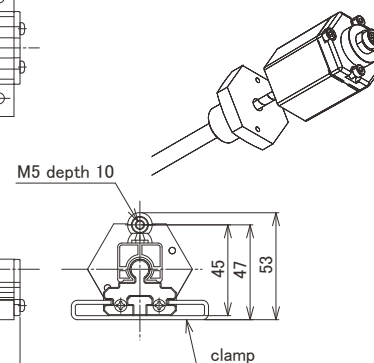
stroke	< 600mm: 2 pcs	
	600~1000mm: 3 pcs	
	1001~1200mm: 4 pcs	One clamp is added every 500mm
	1501~2000mm: 5 pcs	

Dimensions

Probe

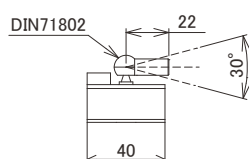


detachable probe element

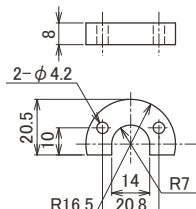


magnet

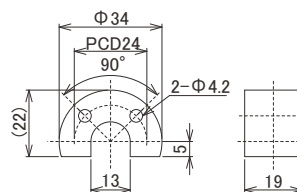
slide magnet
model: PFU
materials: polyacetal



floating magnet
model: No.5N-UK
materials: MC nylon



floating magnet
model: No.5PFT-LG
materials: SS304



Cable

Cable color	Pin number	Function
red	1	+24VDC
white	2	0V
blue	3	DATA+
green	4	DATA-
brown	5	CLK+
black	6	CLK-
yellow	7	Alarm

• shield should be connected to FG of user's unit.

- materials ; Probe head : Al alloy, body : Al alloy
- connector ; straight or L-sharped (housing parts : BS with Ni plating)
- Applied cable diameter: $\Phi 6.6 \sim \Phi 7.5$, Wire size: 0.5mm²

