Linear profile Series

GYSE-P-PF Probe

Profubus DP



Profibus DP interface (detachable probe element)



This is the linear profile version of GYSE-P. It is PROFIBUS interface type. Setting parameters (resolution, output direction) through PROFIBUS is possible. GSD file is available on SANTEST web site. Detecting up to 32 pcs of magnets on one probe is possible (Min. proximity distance between 2 magnets is 75mm). When you use a PROFIBUS master simulator of separate sale, it's possible to confirm the data and to set up a PROFIBUS slave from a PC without PROFIBUS master (usually, PLC).

Specifications

	Accuracy	Non-linearity	≦±0.025%FS TYP
5		Resolution	Min.1 μ m(set by Profibus Configurator)
2 2		Repeatability	$\leq \pm 0.001\%$ FS (Min. $\pm 3 \mu$ m)
1 5		Temp. drift	≦±15ppmFS/°C
	Output		Profibus DPV0
	Power supply		+24(±2)VDC (70mA)
Г			Stroke ~800mm : 2000Hz
S		ampling freq.(*)	∼2200mm : 1000Hz
			∼5000mm : 500Hz
			5001mm∼ : 250Hz
Ī	Environment	Operating temp.	−20°C ~ +75°C
		Storage temp.	-40°C∼+75°C
2		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.
- (*) In case of multi magnets on one probe, sampling frequency is not standard
- Fixing clamps are supplied. stroke < 600mm: 2 pcs 600~1000mm:3 pcs

1001~1500mm:4 pcs One clamp is added 1501~2000mm:5 pcs every 500mm

Dimensions

■Probe

•materials; Probe head: Al alloy, body: Al alloy 20 (52) M5 depth 10 81 effective stroke *1) In case of an effective stroke 3001mm or more, both of head

and tip dead zone are 100mm. (Model code 2/3:100/100)

magnet slide magnet floating magnet floating magnet model:PFU model: No.5N-UK model: No.5PFT-LG materials:polyacetal materials: MC nylon materials: SS304 Ф34 DIN71802 PCD24 90° $2 - \phi 4.2$ 2-Φ4.2

■ Probe

GYSE-P-**1 (2**) (3) **(4**) **(5) (6) (7**)

1 Effective stroke

15~7500mm

2 Head dead zone

S:50mm(STD)

☐:☐mm(option)(specified by customers)

·Possible Min. length depends on the selected magnet.

3Tip dead zone

S:50mm(STD)

☐:☐mm(option)(specified by customers)

•Possible Min. length depends on the selected magnet.

4 Associated magnet

:PFU slide magnet : No.5N-UK : No.5PFT-LG BP

- •Please consult if you select a magnet of other than above.
- •This Model code means only specifying associated magnet.
- •When you need a magnet, please order separately.

5 Cable connection

CN: connector

6Option

blank: without option

L:linearization option(≤0.006%FS TYP)

2M : temperature compensation ($\leq \pm 7$ ppmFS/°C) 2ML: temperature compensation + Linearization

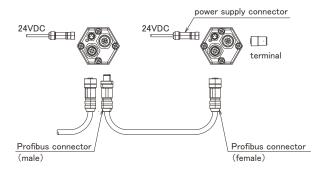
7Option

F50: with fixing clamps N: without fixing clamps

Wiring

- Profibus standard cable and robot cable are available.
- •In case of connecting several pcs of probe, please refer to the following sketch.

■ individual wiring



■Power supply connector

■ Profibus connector (IN, male)



M8 connector Pin: Function 1 : +24VDC : 0V 4 : N.C.

Please ground the drain wire to low impedance earth for the noise decrease



M12 connector(B coding) Pin : Function 1 : N.C. : RxD/TxD-N(A)

: N.C. : RxD/TxD-P(B) : N.C.

■ Profibus connector(OUT, female)



M12 connector(B coding)

Pin : Function

: VP+5(Bus Termination) : RxD/TxD-N(A) : DGnd(Bus Termination) 4 : RxD/TxD-P(B)

: N.C.

■ Connector and Cable Models

Power supply connector : CN-SEP-M8-□

• Profibus connector (IN,male) : CN-SEP-M12M- \bigcirc \square : cable length(m)

Profibus connector (OUT,female) : CN-SEP-M12F-○□

· Terminal : CN-SEP-TR

O: cable length(m), S:standard R:robot cable

In case of "0", it means loose connector only

 \triangle :blank:loose connector(IN, male)

M12F: with connector (OUT, female) at the other end

(Need to specify cable length)