

GYSE-S Probe

SSI

GPM

Noise
Cancel



SSI output (detachable probe element)



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
	Repeatability	$\leq \pm 0.001\%FS$ (Min. $\pm 3 \mu m$)
	Temp. drift	$\leq \pm 15ppmFS/^{\circ}C$
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)
Power supply		+24(± 2)VDC (70mA)
Sampling freq. (*)		Std 1kHz (total rod length : up to 1250mm)
Environment	Max. Pressure	35MPa (probe rod)
	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	IP67

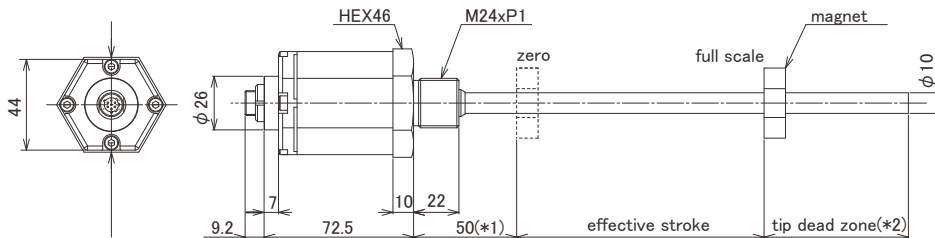
* The above mentioned accuracy applies to sensors with an effective stroke of 300mm or more.

* The specification of stroke less than 300mm is equal that of stroke 300mm.

(*) Sampling frequency : Max. 3.75kHz (It depends on the total rod length (shows in Model ⑩), and the consumption current increases.)

Dimensions

Probe

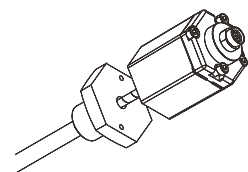


screws (2 pcs)
for detachment

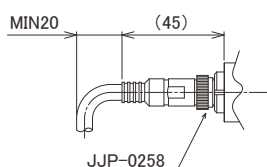
*1) In case of stroke 3001mm or more, head dead zone is 100mm. (Model code ② : 100)

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

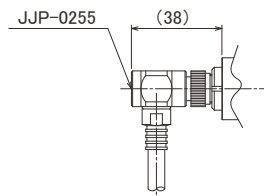
detachable probe element



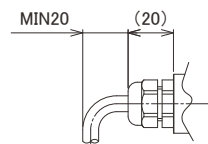
Connector type (straight) (STD)



Connector type (L-shaped) (option)



Pigtail type (option)



- materials ; Probe head : Al alloy, Probe rod : SS304
- magnet : Select one from group GG on page 109.
- The tip dead zone length depends on the selected magnet or float.
- connector ; straight or L-shaped (housing parts : BS with Ni plating)
- Applied cable diameter : $\Phi 6.6 \sim \Phi 7.5$, Wire size : 0.5mm²

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.

