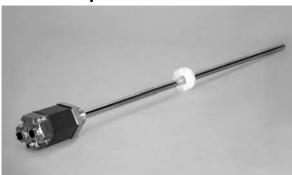
All-in-one Series

GYSE-EP2 Probe



Noise Cancel

EtherNet/IP interface (detachable probe element)



GYSE-EP2 is EtherNet/IP interface.

It is an adapter device that outputs position/velocity of magnets via EtherNet/IP.

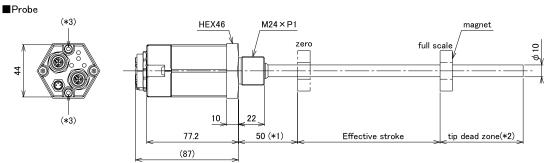
Detecting up to 20 pcs of magnets on one probe is possible. The inside probe element can be detached from the outer housing.

Specifications

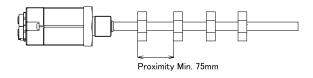
	Non-linearity	\leq \pm 0.025%FS Typ.
	Resolution	Position: Min. 1 μ m
Accuracy		(multi magnet type : Min. 10 μ m)
		Velocity: Resolution 1 μ m/sec
		(velocity 1mm/sec or higher)
		Set by "Configuration Assembly"
	Repeatability	$\leq \pm 0.001\%$ FS (\leq Min. $\pm 3 \mu$ m)
	Temp. drift	$\leq \pm 15$ ppmFS/ $^{\circ}$ C
Output		EtherNet/IP
Power supply		+24VDC(±5%)(110mA)
	Sampling freq.	1kHz (≦1300mm)
`	(*)	500Hz (≦2400mm)
	(4)	250Hz (≧2401mm)
	Max. Pressure	35MPa(probe rod)
l En	Operating temp	−20°C~+75°C
iro	Storage temp.	-40°C∼+90°C
nm	Vibration	15G(10~100Hz)
Environment	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.
- (*) In case of multi magnets on one probe, sampling frequency is not standard value.

Dimensions

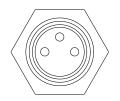


- *1) In case of an effective stroke 3001mm or more, head dead zone is 100mm. (Model code 2:100)
- *2) In case of an effective stroke 3001mm or more, tip dead zone is "standard length + 30mm". (Model code ③: 100/130)
- *3) Screws (2 pcs) for detachment.



• When multiple magnets (max. 20pcs.) are used, minimum proximity distance between 2 magnets is 75mm. (The minimum distance between magnets varies depending on magnet type.)

■ Power Connector (M8 connector (plug))



Pin : Function
1 red : DC24V
2 — : —

3 white : 0V 4 black : N.C.

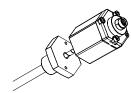


■ Communication Connector

(M12 connector : receptacle / D coding)

Pin : Function
1 : TX(+)
2 : RX(+)
3 : TX(-)
4 : RX(-)
5 (center) : N.C.

■detachable probe element



■ Probe

GYSE-EP2 1 2 3 4 5 6 7

1 Effective stroke

15~7500mm

2 Head dead zone

50:50mm (Std.)

□: □mm(specified by customers)

• Possible Min. length depends on the selected magnet.

3Tip dead zone

☐:70mm /100mm(Std.)

	tip DZ	magnet
70	70mm	M2PN, M3, M11N
100	100mm	T144, T163

☐ : ☐mm (option)(specified by customers)

4Thread/Rod diameter

 $\begin{array}{l} \text{M:M24} \times \text{P1.0} \ , \ \phi \ \text{10mm} (\text{Std.}) \\ \text{N:M18} \times \text{P1.5} \ , \ \phi \ \text{10mm} \\ \text{M14:M24} \times \text{P1.0} \ , \ \phi \ \text{13.8mm} \end{array}$

5 Associated magnet or float

<magnet>

M2PN: No.2PN(Std.)
M3: No.3
M11N: No.11N
T144: No.T14-M4
T163: No.T16-M3

- •Selecting magnet from page 116~118(GG).
- •Please consult our factory in case of requesting special magnet or float.
- *This model code means only specifying associated magnet or float.
- •Ordering magnet or float individually.

6 Cable connection

CN: Connector (Std.)

Option

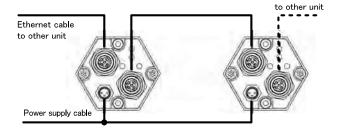
blank: without option SRT: SRT option

•Please confirm the details of SRT option on page 114.

Wiring

- Stable power supply (24VDC±5%) is necessary.
- •Probe has two connectors for communication (PORT1 and PORT2), these ports are the same function and customer can use either.
- •Serial wiring connection is possible.
- •Category CAT5/5e and above twist pair cable with shield (STP) is recommended for communication and for between the hub and each node, less than 100m length is recommended.
- •In case of using several probes, please follow the below sketch.

Serial wiring



■ Case of using switching hubs

