

GYSE-FX Probe

Flexible Rod Type

The GYSE-FX series are new models using not a conventional stainless steel but a polyolefin resin as the rod material.

Since it is of a structure with flexibility in the rod part, the position tracking in curve is feasible. (Minimum bend radius 200mm)

GYSE series element is used and high accuracy detection is possible.

The maximum effective stroke is 4000mm.



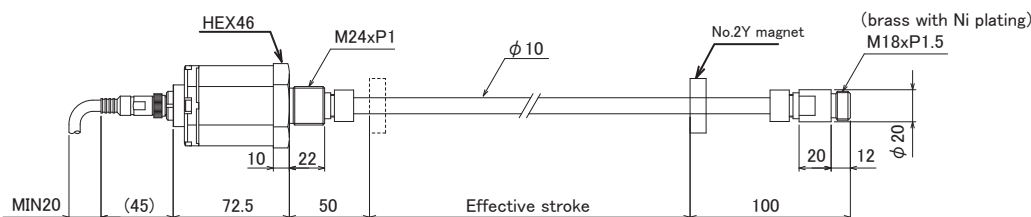
Specifications

Series	GYSE-FX-A	GYSE-FX-S	GYSE-FX-Q	
Accuracy	Non-linearity	$< \pm 0.025\%FS$ (Min. $\pm 50 \mu m$)		
	Resolution	16bit (1/65536)	0.01mm (standard), 0.1mm, 0.05mm, 0.005mm, 0.002mm, 0.001mm	
	Repeatability	$\pm 0.001\%FS$ (Min. $\pm 3 \mu m$)		
	Temp drift	$\pm 20ppmFS/^{\circ}C$	$\pm 15ppmFS/^{\circ}C$	
Output	Output	Analogue	SSI	Incremental
	Position output (Standard)	0~10V (output current: Max.5mA, load: Min.2k Ω) or 4~20mA (load: Min.500 Ω)	SSI, 24bit Binary (standard) or Gray code	A, /A and B, /B (four interpolation) RS422 line driver
	Velocity output (Option)	$\pm 10V$ or 4~20mA Resolution: 16bit (1/65536)	no-option	
	Alarm output	Open drain 50V 0.1A (Alarm signal for lost magnet)		
Power supply	+24 (± 2)VDC (80mA)			
Frequency response	Std 1kHz (depending on stroke) sampling			
Environment	Operating Temp	0 $^{\circ}C$ ~+65 $^{\circ}C$		
	Storage Temp	-20 $^{\circ}C$ ~+65 $^{\circ}C$		
	Vibration	3G (or 40Hz 1mmpp)		
	Shock	10G (2msec)		
	Protection	IP65		

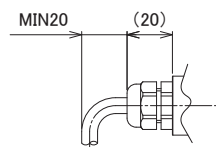
*The above mentioned accuracy applies to sensors with an effective stroke of 300mm or more.

Dimensions

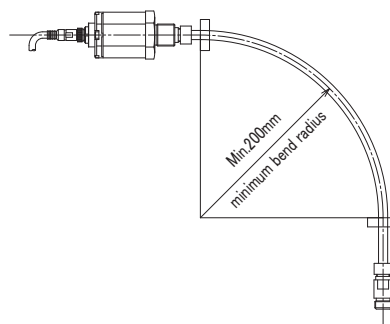
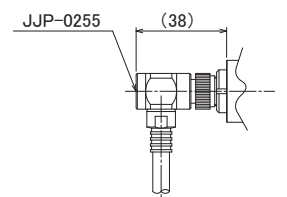
■ Straight connector type (Standard)



■ Pigtail type (Option)



■ L shape connector type (Option)



- Material probe head: Al diecast, probe rod: polyolefin resin
- Standard magnet: No.2Y
- Connector: LEMO connector (Material: brass with Ni plating)
(Standard: straight type, Option: L type)