

GYFC2/3 Controller

Analogue

Noise
Cancel

Analogue output



GYFC2/3 controller outputs 0~10V or 4~20mA for position and $\pm 10V$ for velocity (velocity output : option). Having alarm output for cable cut and missing magnet (standard function). GYFC2/3 controller can be used in combination with GYMR6, GYcRP, GYcRS, GYMR5, GYFRS, and GYKM-RS probe. GYFC2/3 controller can't be used in combination with GYSE-R probe. And a connection with a probe will be a terminal stand, not a connector for GYFC3.

Specifications

Resolution (position)	$\leq 0.005\%FS$ (*1)
	$\leq 0.01\%FS$ (*2)
Position(OUT1)	0~10V(Max.5mA, Min.2k Ω)
(OUT2)	4~20mA(load: Max.500 Ω) or inverted output etc
Velocity (option)	$\pm 10V$ (Resolution: 1%FS)
Alarm(*3)	Contact 1A 30VDC(*3)
Power supply	Std: +24VDC $\pm 5\%$ ($\leq 350mA$) Option: $\pm 15VDC$ 、 $\pm 12VDC$ (*4)
Sampling freq.	Std 1kHz(up to stroke 1000mm)
Temp. drift	$\leq \pm 20ppmFS/^{\circ}C$
Operating temp.	0 $^{\circ}C$ ~+65 $^{\circ}C$
Storage temp.	-20 $^{\circ}C$ ~+85 $^{\circ}C$

- 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.
- Zero/Gain adjustments by trimmer are possible. (STD: $\pm 3\%FS$)

(*1)associated probe: GYMR6, GYcRS, GYMR5, GYFRS, GYKM-RS

(*2)associated probe: GYcRP

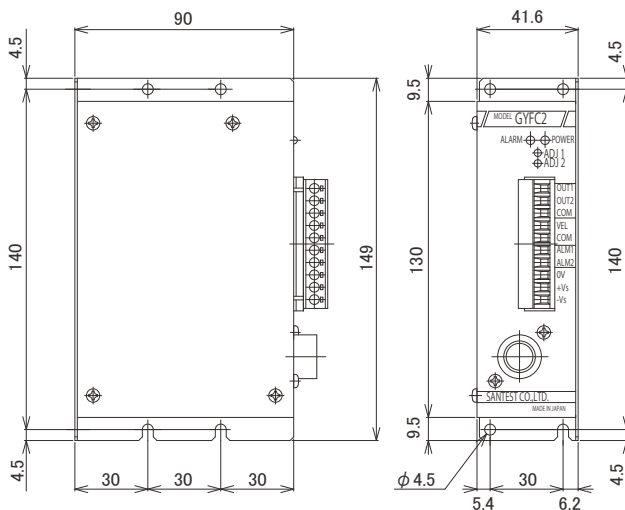
(*3)Cable disconnection and magnet drop

(*4)GYcRP probe only

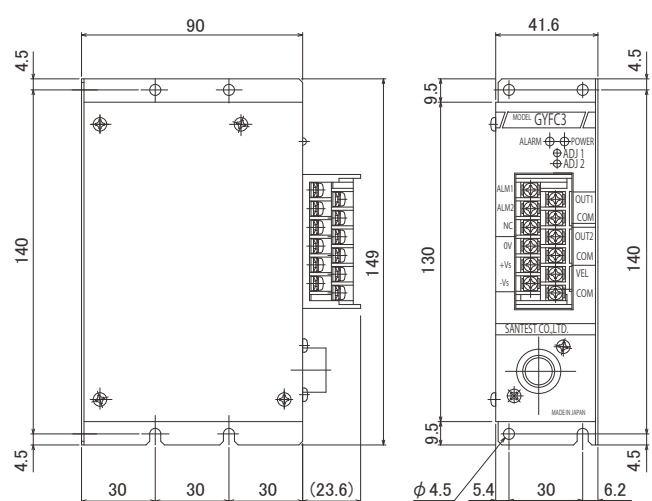
Dimensions

Controller

◆GYFC2



◆GYFC3



■ Controller

GYFC - - - **Z** - - / - - -

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Controller type

2: phenix connector type (STD)
3: terminal type

② Probe

MR6: GYMR6
RS: GYcRS
RP: GYcRP
R5: GYMR5
FS: GYFRS
KRS: GYKM-RS
RPH2: GYcRP with H2 option
ESP: EX-GYdS-R

③ Effective stroke (mm)

④ Head dead zone

S: 50mm (STD)
☐: ☐mm (option) (specified by customers)

• Possible Min. length depends on the selected magnet or float.

⑤ Associated magnet or float

<magnet>	<float>
M2P : No.2P (STD)	F28S : Φ28 SS316L
M2PN : No.2PN	F30S : Φ30 SS316L
MG0 : No.Φ	F40S : Φ40 SS316(B)
M0SM : No.Φ SPM	F42S : Φ42.5 SS316
M0LM : No.Φ LPM	F50S : Φ50 SS316L
M3 : No.3	F54S : Φ54 SS304
M11 : No.11	F25N : RF-A10 plastic
M11N : No.11N	F28N : RF-A6 plastic
T142 : No.T14-M2	
T144 : No.T14-M4	
T162 : No.T16-M2	
T163 : No.T16-M3	
BA : No.2KYN-17-LG	

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

⑥ Position output

	OUT1	OUT2
AD/AR	0V~10V	10V~0V
AD/BD	0V~10V	4mA~20mA
AR/BR	10V~0V	20mA~4mA
CD05/CR05	-5V~+5V	+5V~-5V
CD10/CR10	-10V~+10V	+10V~-10V

⑦ Power supply

24S: +24VDC (STD)
15W: ±15VDC (option) (GYcRP probe only)
12S: +12VDC (option) (GYcRP probe only)

±15VDC +15V (±5%) ≤ 200mA
-15V (±5%) ≤ 100mA
+12VDC +12V (±3V) ≤ 700mA

⑧ Option (blank: No option)

Velocity output (Note1)
V[] ([]): Max speed (mm/sec)

(Note1)

• You can specify max speed within 3%~300%/sec of effective stroke (mm).
(ex: effective stroke=300mm, 9mm/sec~900mm/sec)

⑨ Option

X2: 2kHz sampling (total rod length: Max. 750mm)