

Product News

No.26
03E

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Position Sensing Type Hydraulic Cylinders CJT70PS/CJT140PS Notice of Model Change

Due to the change of amplifier, the hydraulic cylinder will undergo the following model change.

Reason for Change

Discontinuation of production of the amplifier (GYFC2)

Details of Change

The amplifier will be changed to a replacement product. As a result, the mounting type and cable connection method have been changed.

Category	Old Product	New Product
Specifications	See Page 3.	
Mounting Type	M4 Screw Mounting	DIN Rail Mounting
Cable Connection	Connector	Pin (via attached connector)

Compatibility

Category	Interchangeability	Remarks
Cylinder Body	Yes	No change between old and new
Amplifier	No	Specifications and external dimensions are different

Model Number Structure

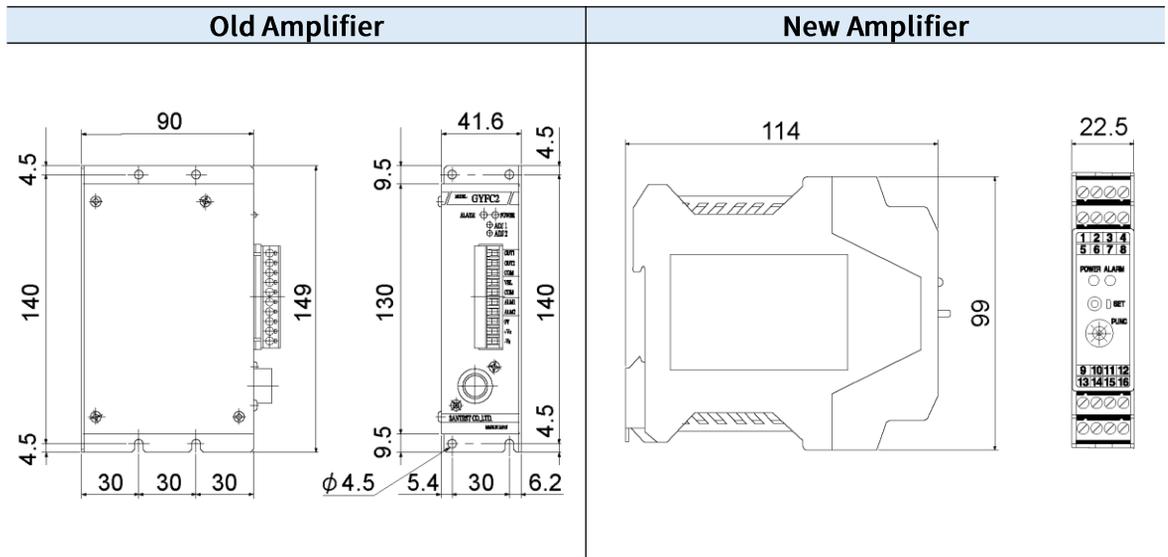
The design number of the cylinder body is updated to 11. The model number structure remains unchanged between the old and new models.

Category	Old Model Number	New Model Number
Cylinder Body	CJT70PS-※※※※N※N※-※※※-※※※-10	CJT70PS-※※※※N※N※-※※※-※※※-11
	CJT140PS-※※※※N※N※-※※※-※※※-10	CJT140PS-※※※※N※N※-※※※-※※※-11
Amplifier	GYFC2(G1)	GYHC(G3)

Switching Time From orders received in May 2026.

External Dimensions

Will be completely changed.

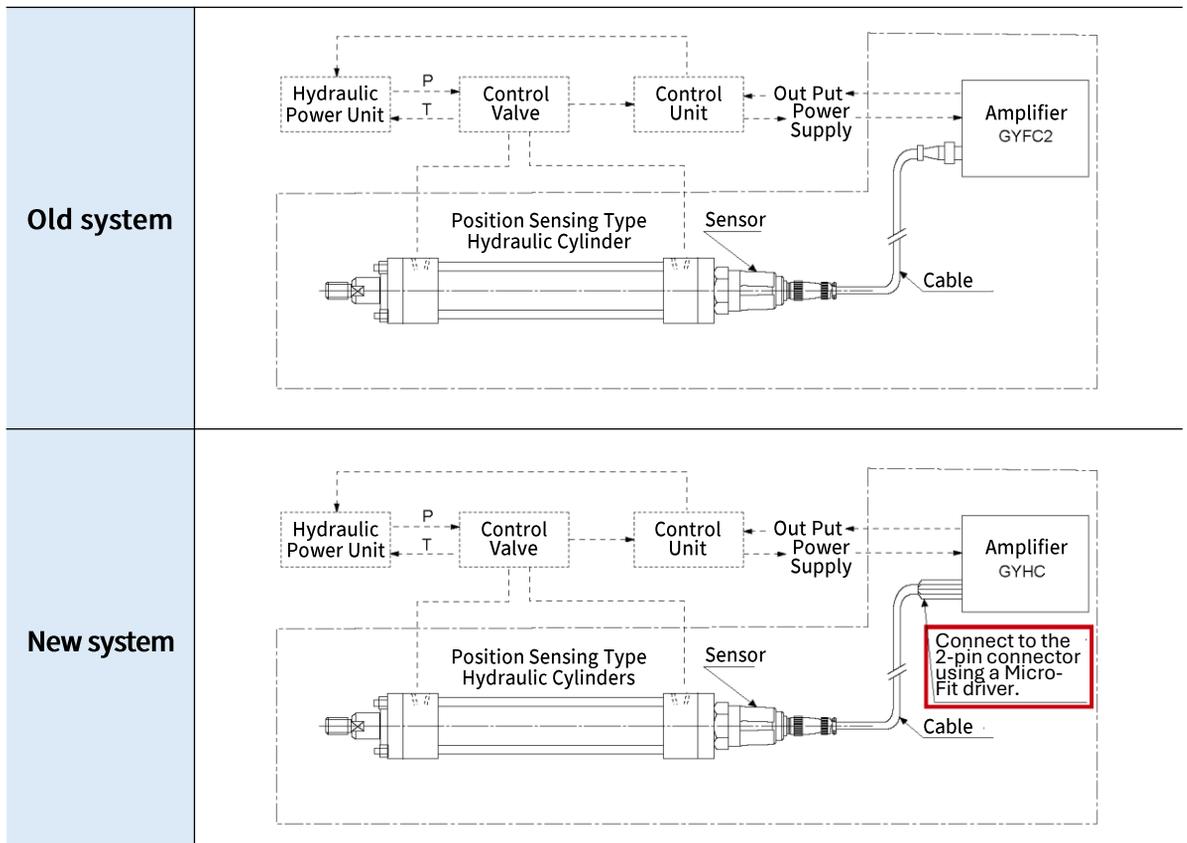


System Configuration

The amplifiers and the cables will be changed (the connection method will change from connector connection to pin connection).

★For the connection related details, please refer to the following document.

[販売管連No.Z40-50009.pdf](#)



■ Specifications

Amplifier		Old GYFC2 (G1)	New GYHC (G3)
Sensor		GYCRP	
Output System		Analog	
Linearity		$\pm 0.05\%FS$ or Less	$\pm 0.025\%FS$ or Less
Resolution		0.01%FS or Less	16bit(Full Stroke 65536 Resolution)
Reproducibility		$\pm 0.01\%FS$ or Less	$\pm 0.001\%FS$ or Less
Temperature	Sensor	$\pm 50ppmFS/^{\circ}C$	
	Amplifier	$\pm 20ppmFS/^{\circ}C$	$\pm 10ppmFS/^{\circ}C$
PositionData Output Signal	Voltage	0~10V(Output1)(Load current 5mA, load resistance min2k Ω)	
	Current	Current Output 4~20mA(Output2) Load Resistance max500 Ω	
Signal Specific Specifications	Warning Output	Dry Contact 1 A 30VDC (Error: Contact Closed)	Transistor Output 100 mA 30VDC (Error: Transistor ON)
	Velocity Output (Optional)	$\pm 10V$ (Speed Resolution 1%FS)	$\pm 10V$ or 4~20mA
Scanning Frequency		1kHz (Charges When Storke 1m or More)	
Power Supply		DC $\pm 15V$ /DC+24V ($\pm 5\%$)	DC+24V ($\pm 2V$)
Current Consumption		+15V: 200mA or less, -15V: 100mA or less DC+24V: 350mA or less	150mA 170mA (With additional option)
Operating Temperature Range		-5 $^{\circ}C$ ~+65 $^{\circ}C$ (Sensor) 0 $^{\circ}C$ ~+60 $^{\circ}C$ (Amplifier)	-5 $^{\circ}C$ ~+65 $^{\circ}C$ (Sensor) 0 $^{\circ}C$ ~+65 $^{\circ}C$ (Amplifier)
Storage Temperature Range		-40 $^{\circ}C$ ~+80 $^{\circ}C$ (Sensor)	
Pressure Resistance		Static Pressure : 35MPa (Sensor rod part)	
Vibration Proof	Sensor	6G (40Hz 2mmPP)	
Impact Resistance	Sensor	100G (2m sec)	
Protective Structure	Sensor	IP65	IP67
Cable		With Standard 1.5m Connector	Standard 1.5m Cable with Stripped Ends
Remarks		<ul style="list-style-type: none"> ○Please specify whether the output signal should be voltage or current. ○For other output types, please consult us separately.(Optional features such as inverted output and bipolar output are also available.) ○The power consumption includes a maximum output of 20 mA. ○The $\pm 15 V$ power supply specification does not include a misconnection protection circuit. Please be careful when making connections. ○Speed output is available as an option. Please indicate if it is required. ○Fine adjustment of the zero/full-scale output can be performed using the trimmer on the front panel of the amplifier. ○The cable length from the sensor to the amplifier can be up to 200 m. ○To save space, a direct cable outlet (pigtail type, IP65) is available as an option. ○A waterproof specification for the sensor is available as an option.. ○A high-temperature specification for the sensor is available as an option. ○Wiring from the amplifier to the control equipment must be arranged by the customer. 	<ul style="list-style-type: none"> ○Please specify whether the output signal should be voltage or current. ○For other output types, please consult us separately. (Optional outputs such as inverted output and bipolar output are also available.) ○Power consumption includes a maximum output of 20 mA. ○Speed output is available as an option. Please specify if required. ○Fine adjustment of the zero/full-scale output can be performed using the toggle switch and other controls on the front panel of the amplifier. ○The cable length between the sensor and amplifier can be up to 200 m. ○A waterproof sensor specification is available as an option. ○A high-temperature sensor specification is available as an option. ○Wiring from the amplifier to the control equipment must be arranged by the customer.