



MIDORI's Small Angle Sensor

CP-1HX & CP2HX

Concept

Small size /
Thin

×

Long Life

×

Water-proof

Future

Thinner projection
after mounting

⇒Space-saving

Contactless Angle
Sensor

⇒ Longer rotational life

IP level 67

⇒highly sealable housing

CP-1HX

Minimizing size
~ smaller and thinner



Smaller than €2 Coin

10mm
5mm



Only
4.4mm

CP2HX

Water-proof



Just a coin size
with IP67



Only
7mm

MAIN APPLICATIONS

Model	Market	User	Installed	Application
CP-1HX	Robotics	A Healthcare device maker	Walking assistance robot	Detecting angle of lower leg joint part
	Instrumentation	A Flowmeter maker	Small flowmeter	Flow control
	Industrial machinery	An Industrial Robotic maker	AGV	Control of rotational angle
CP2HX	Marine equipment	A Marine equipment maker	Pleasure boat/Outboard	Lever control
	Industrial vehicle	A Forklift maker	Forklift	Control of steering angle
	Construction machinery	A Specially equipped vehicle maker	Truck mounted crane	Control of rotational angle position

⇒ For details, please refer "Usage Case" flyers.

Finding a solution to problem by using CP-1HX & CP2HX

Customer			MIDORI's Suggestion	
	Problem	Wish		
CP-1HX	The device be wanted to down-sizing however the space occupied by sensor can not be smaller.		The sensor which can be incorporated in a limited space is needed.	CP-1HX can be installed in narrow space.
	It is difficult to reduce weight of the device.		Weight of the sensor part is needed to as light as possible.	Weight of CP-1HX is only 5g max.
CP2HX	The sensor can be used harsh condition is high cost and too big.		The sensor is wanted to be used under harsh conditions such as water and dust.	CP2HX is Water-proof IP67. Water-proof connector is available.
	Sensor with shaft type may wear mechanically.		High durability sensor is needed.	CP2HX is touchless type, which is departed the sensor part and the shaft part.
	The coupling is quite expensive.		The sensor without bearing and coupling is needed.	CP2HX is touchless type sensor.
Both	There is no output if the sensor is broken. There is concern about safety of the sensor.		The reliability and safety of the sensor are wanted to be improved.	CP-1HX and CP2HX is dual output type. Dual output will be used for fail-safe function.
	There is noise source near the transmission line. Output is unstable by influencing noise.		Want to eliminate unstable output due to noise.	CP-1HX and CP2HX have PWM output type. PWM output is immune to external noise.



MIDORI PRECISIONS
www.midori.co.jp

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We are here for you. Addresses and Contacts.

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