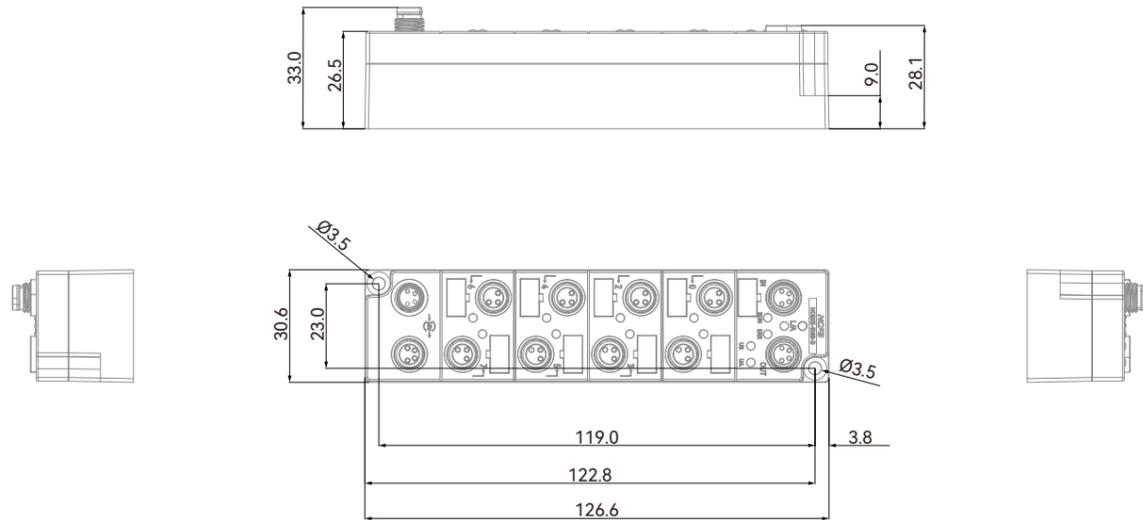


Dimension (mm)



Module Selection Table

Ordering model	Specification overview
HCGXE-ID08-D	8-channel digital input, supports NPN, DC24V, 4.1mA/Ch
HCGXE-ID08-D-PNP	8-channel digital input, supports PNP, DC24V, 4.1mA/Ch
HCGXE-OD08-D	8-channel digital output, chip output, supports NPN, DC24V (DC20.4~28.8V) 500mA/Ch, 4A/8Ch
HCGXE-OD08-D-PNP	8-channel digital output, chip output, supports PNP, DC24V (DC20.4~28.8V) 500mA/Ch, 4A/8Ch

HCGXE Series Distributed I/O Modules

New Generation High-Protection
EtherCAT Remote I/O



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ATC

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Due to delays in updating printed versions, please refer to the official website for the latest product information. The information provided in this manual is subject to change without prior notice.

HCFA

Input Module Specifications

Model	HCGXE-ID08-D	HCGXE-ID08-D-PNP
Appearance		
Input channel	8-channel	8-channel
Input format	NPN	PNP
Rated input voltage	DC24V (-15%~+20%)	
Rated input current	4.1mA/Ch	
Input impedance	6.35KΩ	
Input ON voltage	DC12V and above	
Input ON current	4mA and above	
Maximum OFF current	2.5mA	
ON/OFF response time	1ms (hardware response time)	
Wiring method	2-wire system, 3-wire system	
Isolation voltage rating	2.5kVrms	
Filter time	0ms, 10ms, 30ms, 100ms parameters are configurable	
Input power supply short circuit protection	0.5A	
Rated power	3W	
Weight	190g	

Output Module Specifications

Model	HCGXE-OD08-D	HCGXE-OD08-D-PNP
Appearance		
Output channel	8-channel	8-channel
Output format	NPN	PNP
Rated load voltage	DC24V (-15%~+20%)	
Rated load current	500mA/Ch, 4A/8Ch	
Inductive load	12W per channel, 96W per module	
Lighting load	1.5W per channel, 12W per module	
Leakage current when OFF	Below 0.1 mA	
ON/OFF response time	125μs (hardware response time)	
Maximum switching frequency	1kHz	
Wiring method	2-wire system	
Protection	Overcurrent protection, overvoltage protection, overtemperature protection	
Communication abnormal output status	0: Force OFF; 1: Force ON; 2: Maintain current state	
Output power supply short circuit protection	5A	
Rated power	3.5W	
Weight	190g	

General Specifications

Item	Specifications		
Operating environment	Operating temperature	-25~60°C	
	Storage temperature	-40~85°C	
	Relative humidity	10~95%RH (non-condensing)	
	Altitude	≤2000m	
	Random drop	1m, double-packed for transport	
	Withstand vibration	Frequency	5~150Hz
		Displacement	3.5mm, constant amplitude
		Acceleration	1.0g, constant amplitude
		Direction	3-axis
	Withstand impact	Random amplitude 15g, 11ms half-sine wave, 3 mutually perpendicular axes	
IP rating	IP67		
Pollution degree	Pollution degree II		
Isolation method	Between interface channels	Non-isolated	
	Between power supply and interface	Transformer isolation	
	Between interface and bus	Digital isolation	
EMC requirements	Electrostatic discharge	Electrostatic contact: 4KV, Air discharge: 8KV	
	Electrical fast transient	2KV	
	Surge	DC power supply: 0.5 CM 0.5KV DM	
Insulation resistance	>1MΩ		
Withstand voltage	500V, 1 minute (leakage current below 5mA)		
Heat dissipation method	Natural air cooling		
Installation location	Installed inside control cabinets, for open-air and indoor use		
Main material	PA6		

Power Specifications

Item	Specifications
Input rated voltage	24 VDC
Input voltage range	18~30.2 VDC
Input maximum current	4A
Output rated voltage	24 VDC
Output voltage range	18~30.2 VDC
Output maximum current	4A
Allowable momentary power interruption time	5ms
Protection	Overload protection

GXE Series EtherCAT Bus Remote I/O

A new addition to the distributed solutions portfolio

Stylish design

High protection rating

Compact size

Water-proof



Dust-proof



High protection rating

The IP67 protection rating is suitable for I/O terminals in harsher environments. Power terminals and network cables all utilize M8 connectors



Easy to use

Supports input filtering
Supports configurable output state after fault detection
Supports power supply under-voltage or over-voltage detection



Safe and reliable

Supports power supply short-circuit protection, overcurrent protection, overvoltage protection, and overtemperature protection
The enclosure is made of flame-retardant material, adding an extra layer of safety



Extensive specifications

NPN

Input and output types

- HCGXE-ID08-D
- HCGXE-OD08-D



PNP

Input and output types

- HCGXE-ID08-D-PNP
- HCGXE-OD08-D-PNP

