

AI-1000C

Separate Amplifier Model: Amplifier, Connector Type, for AI-H

*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

Specifications

Model		AI-1000C
Connection Type		M8 connector (4-core)
Detection Modes		Presence check mode / Difference check mode / Feeder mode
Response Time		Switchable between 3 ms/10 ms/20 ms/50 ms/100 ms
Timer		OFF/Off-delay/On-delay/One-shot
Bank Function		Bank slots: Up to 2
Other Functions		Filter, orientation detection, anti-blur, hysteresis, mutual interference prevention, indicator LED color change, screen display orientation, statistics display, failure hold display, key lock function, I/O test
Display Panel		Organic LED (OLED) display
Languages		Japanese/English/Chinese (Simplified)
Indicators	Main Indicator	1 (green/red/orange)
	I/O Indicators	2 indicators (red): OUT1/OUT2 or IN
Input	Type	Non-voltage input/voltage input can be switched Non-voltage input: ON voltage 2 V or lower, OFF current 0.1 mA or lower, ON current 2 mA or lower (short circuit) Voltage input: Maximum input rating 30 V, ON current 18 V or higher, OFF current 0.1 mA or lower, ON current 2 mA or lower (at 30 V)
	Number of Inputs	1: IN or no input*1
	Functions	Assignable functions: Bank/Hold (level)/Hold (edge)/Reset/External calibration/ Interference prevention/Light off
Output	Type	Open collector output: Can be switched between NPN/PNP and N.O./N.C. Maximum rating: 30 V 50 mA, remaining voltage 2 V or lower
	Number of Inputs	1: OUT1 or 2: OUT1/OUT2*1
	Functions	Assignable functions for OUT2: Error output/Judgment output 2/Interference prevention output (sync-output)
Communication Functions		IO-Link: Specification v. 1.1 (1.0)/COM2 (38.4 kbps)
Rating	Power voltage	20 to 30 VDC, including Ripple (P-P) 10 %
	Current consumption	0.35 A or less (power voltage at 20 V, excluding the output load)
Environmental resistance	Ambient temperature	-10 to +50 °C 14 to 122 °F (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z directions
Materials		Main unit case/Dust cover: Polycarbonate; Button: POM; Display panel: Acrylic
Weight		Approx. 40 g

*1 Used with OUT2 or IN assigned to I/O line (white line or 2nd pin of M8 connector).

Dimensions

* Download CAD file or product manual for larger image/text and more detail.

ai-1000c_dimension_01.gif

