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IG-1000

Amplifier Unit, DIN Rail Type

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

Specifications

Model				IG-1000
Type				DIN rail mount
Main unit/Expansion unit				Main unit
Analog output				Yes
Power consumption (including analog current output)	Normal			2700 mW or less (at 30 V: 90 mA or less)*1
	Power saving function (HALF)			2300 mW (at 30 V: 77 mA or less)*1
	Power saving function (ALL)			2200 mW (at 30 V: 74 mA or less)*1
Digital display method				Dual 7-seg display Upper level: Red, 5 digits Lower level: Green, 5 digits
Display range				-99.999 to +99.999, -99.99 to +99.99, -99.9 to +99.9, -99 to +99 (selectable)
Display resolution				1 µm 0.04 Mil, 10 µm 0.39 Mil, 100 µm 3.94 Mil, 1,000 µm 39.37 Mil (selectable)
Output	Judgement output (selectable between NPN and PNP)			NPN (PNP) open collector x3ch, 30 VDC (Power supply voltage) or less, residual voltage 1 V (2 V) or less, N.O./N.C. selectable Max. 50 mA/ch *2
	Response time (judgement output)			1.96 to 4031.72 ms *3
	Edge check output (selectable between NPN and PNP)			NPN (PNP) open collector x1ch, 30 VDC (Power supply voltage) or less, residual voltage 1 V (2 V) or less, N.O./N.C. selectable Max. 50 mA, *2 response time 20 ms
	Analog output (selectable among ±5V, 1-5 V, 0-5 V, 4-20 mA)	Voltage output	Output range	±5 V (full scale 10 V)
			Output resistance	100 Ω
			Maximum load resistance	—
			Repetition accuracy	±1 mV
			Display accuracy	±0.05% of F.S.
			Temperature characteristics	±0.005% of F.S./°C
			Update cycle	Same as sensor head sampling cycle
			Response time	Same as Response time (judgement output)
			Time constant	10 µs (90 % response)*4
		Current output	Output range	4-20 mA (full scale 16 mA)
			Output resistance	—
			Maximum load resistance	350 Ω

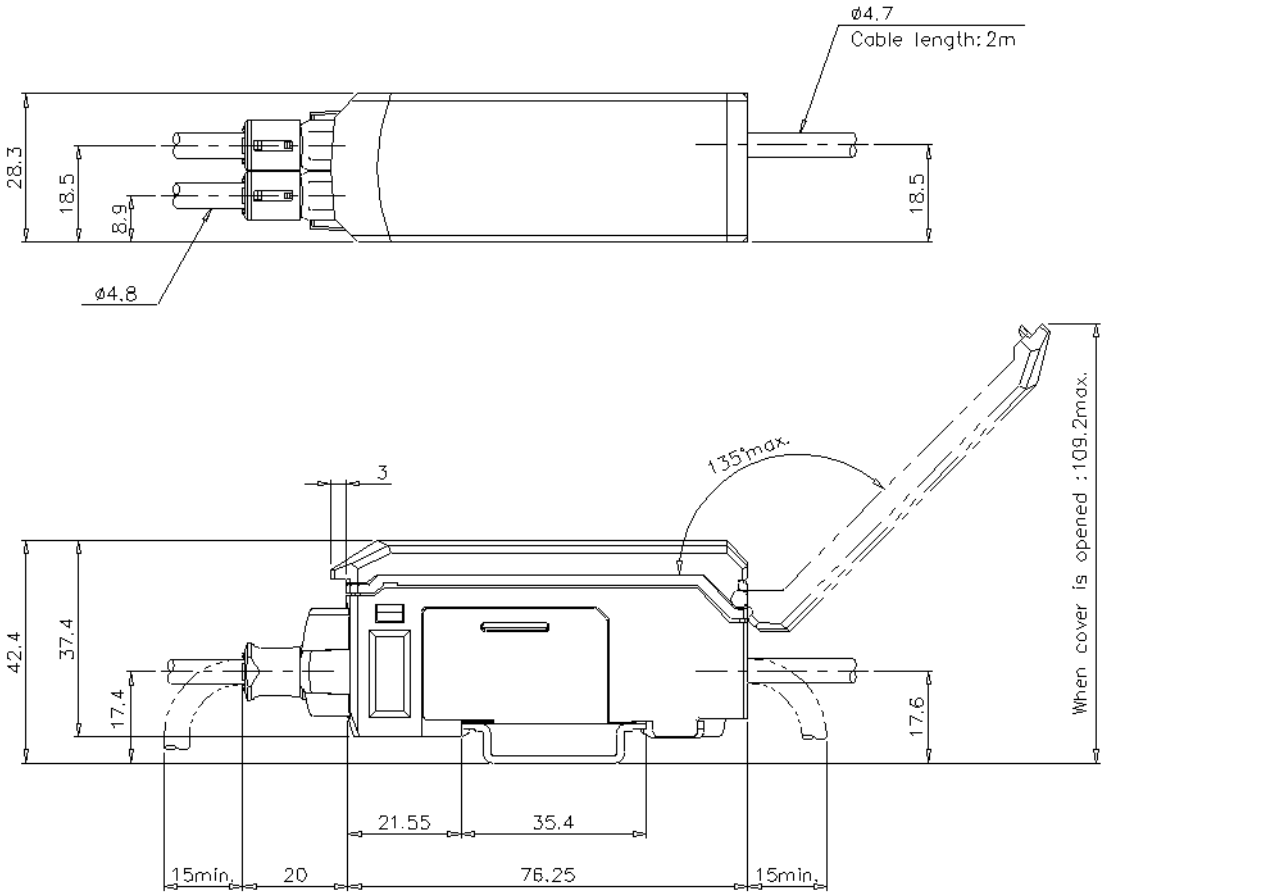
			Repetition accuracy	±1.5 µA
			Display accuracy	±0.25% of F.S.
			Temperature characteristics	±0.01% of F.S./°C
			Update cycle	Same as sensor head sampling cycle
			Response time	Same as Response time (judgement output)
			Time constant	30 µs (90 % response)*4
Input	Gain input			Input time: 20 ms or more, Response delay time: 120 ms or less (Nonvolatile memory (EEPROM) 1.5 s or less)
	Reset input			Input time: 20 ms or more, Response delay time: 20 ms or less
	Timing input			Input time: 2 ms or more, Response delay time: 2 ms or less
	Zero shift input			Input time: 20 ms or more, Response delay time: 20 ms or less
	Bank A input/Bank B input			Input time: 20 ms or more, Response delay time: 20 ms or less *3
	Laser emission stop input			Input time: 2 ms or more, Response delay time: 2 ms or less
Rating	Power voltage			10 to 30 VDC, including Ripple (P-P) 10 %, Class 2 or LPS
Environmental resistance	Pollution degree			2
	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 axis
Material				Main unit case/Front sheet: Polycarbonate, Key top: Polyacetal, Cable: PVC
Accessories				Main body × 1, Instruction manual × 1
Weight				Approx. 150 g (including supplied items)

*1 The power consumption with slave units installed is the total of each amplifier unit's power consumption.
*2 When expansion units are added: Max. 20 mA/ch
*3 For more details, refer to the User's Manual.
*4 Delay time that occurs from the analog output circuit after the judgment is output.

Dimensions

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

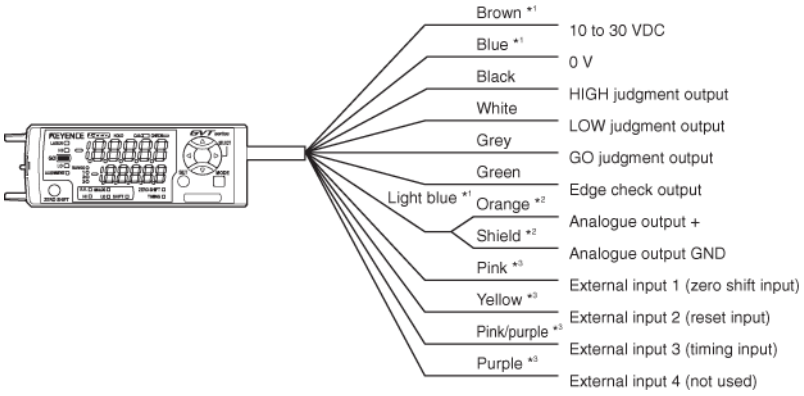
IG-1000



I/O Circuit Connection diagram

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

Wiring Diagram



*1 The brown, blue, and light blue cables are not provided in a IG-1050/IG-1550 unit (expansion unit).
The power is supplied to the expansion unit from the IG-1000/ IG-1500 unit (main unit).
*2 For an analogue output, OFF (not used), 0 to 5 V, ±5 V, 1 to 5 V, or 4 to 20 mA can be selected.
*3 For an external input, bank A input, bank B input, laser emission stop input, or OFF (not used) can also be selected.
For external input 4, gain input can also be selected.
For details, refer to the User’s Manual.

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