General Specifications

Model MH7D Isolator (Dual-output and Unified Signal Type)

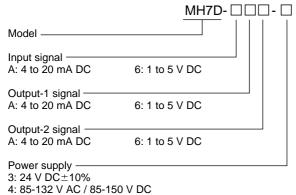
GS 77J04H07-02E

General

The MH7D is a dual-output, plug-in type isolator that receives 1 to 5 V DC voltage or 4 to 20 mA DC current signals to convert them into isolated 1 to 5 V DC voltage or 4 to 20 mA DC current signals.

Provided with Power indicator lamp

Model and Suffix Codes



5: 170-264 V AC

F01.EPS

Items to be specified when ordering

• Model and Suffix Codes: e.g. MH7D-6A6-4

Note: When output signals of 4 to 20 mA and 1 to 5 V DC are required, specify Output-1 as 4 to 20 mA DC because of the allowable load resistance.

Input/Output Specifications

Input signal: 4 to 20 mA DC or 1 to 5 V DC signal Input resistance:

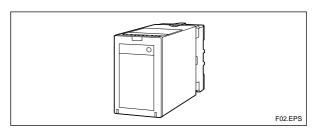
4 to 20 mA DC: 250 Ω (Attach an external resistor.)

1 to 5 V DC: 1 $M\Omega$

Output signal: 4 to 20 mA DC or 1 to 5 V DC insulated dual outputs Allowable load resistance:

Output-1 Range	Allowable Load Resistance	Output-2 Range	Allowable Load Resistance
4 to 20 mA DC	750 Ω maximum	4 to 20 mA DC	350 Ω maximum
1 to 5 V DC	2 k Ω minimum	1 to 5 V DC	2 k Ω minimum
			T02.EPS

Zero adjustment: -5 to +5% Span adjustment: 95 to 105%



Standard Performance

Accuracy rating: $\pm 0.1\%$ of span (aside from the $\pm 0.1\%$ accuracy of the external resistor for current input) Response speed: 150 ms, 63% response (10 to 90%) Insulation resistance: 100 M Ω minimum at 500 V DC between input, output-1, output-2, power supply and grounding terminals mutually Withstanding voltage: 2000 V AC for one minute between input, (output-1, output-2), power supply and grounding terminals mutually; 1000 V AC for one minute between output-1 and output-2 terminals Operating temperature range: 0 to 50°C Operating humidity range: 5 to 90% RH (no condensation) Supply voltage range: 24 V DC±10%, 85-150 V DC, 85-132 V AC, 170-264 V AC (47-63 Hz) Effects of power line regulation: Up to $\pm 0.1\%$ of span for the regulation within allowable range of each supply voltage range Effects of ambient temperature variarions: Up to $\pm 0.15\%$ of span per 10°C Power consumption: 1.8 W at 24 V DC; 1.7 W at 110 V DC; 3.4 VA at 100 V AC; 4.7 VA at 200 V AC Mounting and Appearance Material: ABS resin (casing) Mounting method: Wall or DIN rail mounting More than 5 mm interval is required for side-by-side close mounting.

Connection method: M3.5 screw terminals External dimensions: 85 (H)×51 (W)×132 (D) mm (including a socket)

Weight: Approx. 250 g (main unit), approx. 80 g (socket)

Accessories

Spacer: One (used for DIN rail mounting)

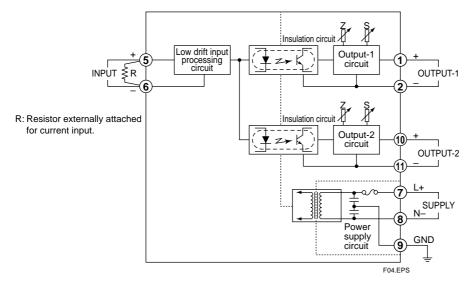


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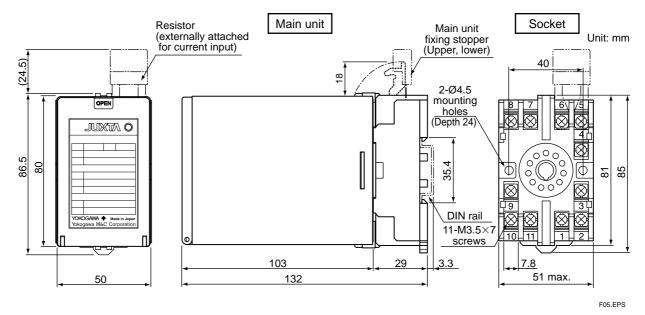
Terminal Assignments

┏─┲─╢╢─┲─┓	1	OUTPUT-1 (+	+)
	2	OUTPUT-1 (-	-)
kara larat	3	N.C.	
	4	N.C.	
	5	INPUT (+	+)
	6	INPUT (-	-)
	7	SUPPLY (L+	+)
	8	SUPPLY (N-	-)
	9	GND	
لطبطا لطبطا	10	OUTPUT-2 (+	+)
	11	OUTPUT-2 (-	-)

Block Diagrams



External Dimensions



 The information covered in this document is subject to change without notice for reasons of improvements in quality and/or performance.

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