

General Specifications

Model MH7
Isolator
(Unified Signal Type)

JUXTA

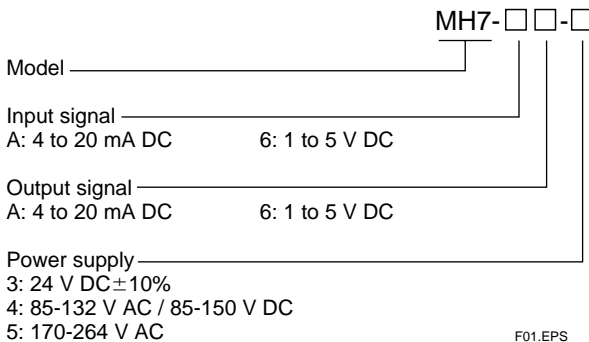
GS 77J04H07-01E

General

The MH7 is a 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



Items to be specified when ordering

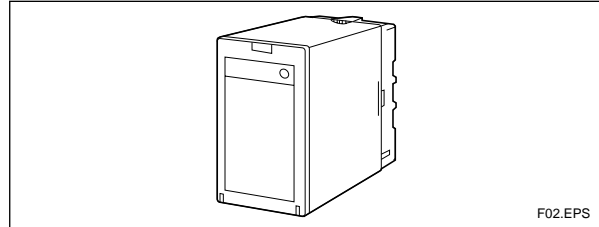
- Model and Suffix Codes: e.g. MH7-66-3

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 MΩ
Output signal: 4 to 20 mA DC or 1 to 5 V DC signal
Allowable load resistance:
4 to 20 mA DC: 750 Ω maximum
1 to 5 V DC: 2 kΩ minimum
Zero adjustment: -5 to +5%
Span adjustment: 95 to 105%

Standard Performance

Accuracy rating: ±0.1% of span (aside from the ±0.1% accuracy of the external resistor for current input)
Response speed: 150 ms, 63% response (10 to 90%)
Insulation resistance: 100 MΩ minimum at 500 V DC between input, output, power supply and grounding terminals mutually
Withstanding voltage: 2000 V AC for one minute between input, output, power supply and grounding terminals mutually
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 ±0.1% of span for the regulation within allowable range of each supply voltage range
Effects of ambient temperature variations: Up to ±0.15% of span per 10°C
Power consumption: 1.2 W at 24 V DC; 1.1 W at 110 V DC; 2.5 VA at 100 V AC; 3.8 VA at 200 V AC

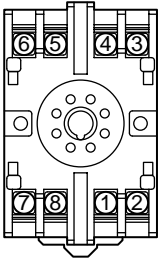
Mounting and Appearance

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)×123 (D) mm (including a socket)
Weight: Approx. 250 g (main unit), approx. 60 g (socket)

Accessories

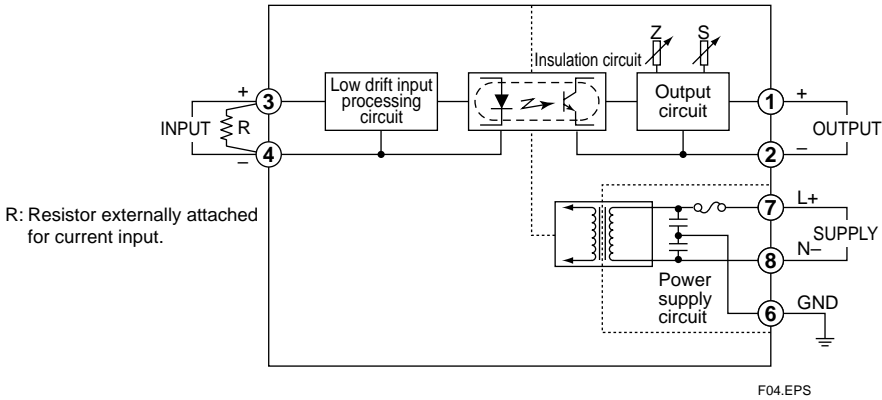
Spacer: One (used for DIN rail mounting)

Terminal Assignments

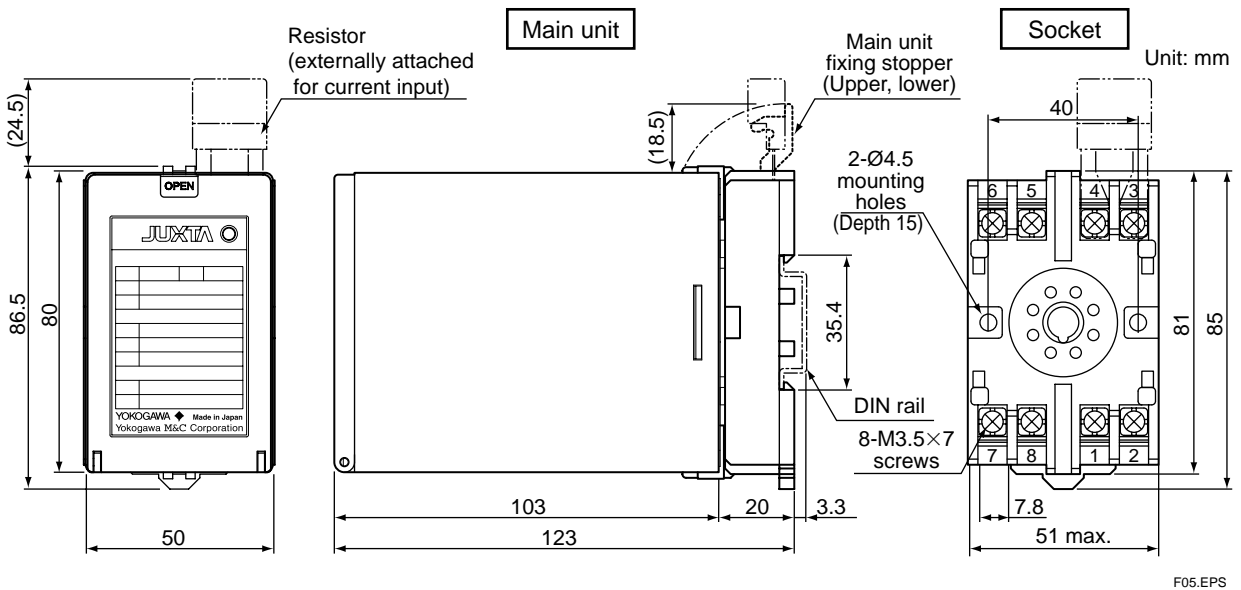


1	OUTPUT	(+)
2	OUTPUT	(-)
3	INPUT	(+)
4	INPUT	(-)
5	N.C.	
6	GND	
7	SUPPLY	(L+)
8	SUPPLY	(N-)

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.