



Main Feature

1. Insulation distance of 8 mm Min. is designed. The employment of insulation material is meeting to JIS insulation class E. Dielectric Strength 5,000V Min. and Surge Strength of 10,000V Min. can be reached.
2. The employment of suitable plastic materials is applied under high temperature condition and various chemical solutions.
3. Complete protective construction is designed from dust and soldering flux. If required, plastic sealed type is available for washing procedure.
4. Halogen Free series is available.

Contact Rating

Load Type	MI (DM/LM)	MI (D/L)	MIH (DM/LM)	MIH (D/L)
Rated Load (Resistive)	10A 250VAC	10A 250 VAC	16A 240VAC	16A 240VAC
	10A 30VDC	10A 30VDC	16A 24VDC	16A 24VDC
	1/3 HP 250VAC	1/3 HP 125VAC	1/3 HP 250VAC	1/3 HP 125VAC
	-	1/2 HP 250VAC	-	1/2 HP 250VAC
Rated Carrying Current	10A	10A	16A	16A
Max. Allowable Voltage	AC: 250V	AC: 250V	AC: 250V	AC: 250V
	DC: 110V	DC: 110V	DC: 110V	DC: 110V
Max. Allowable Current	10A	10A	16A	16A
Max. Allowable Power Force	2500VA	2500VA	3840VA	3840VA
	300W	300W	384W	384W
Contact Material	Ag Alloy	Ag Alloy	Ag Alloy	Ag Alloy
Contact Form	SPST	SPDT	SPST	SPDT

Application

Cooking Appliances, Air Conditioner, Audio Equipment, Domestic Appliances, Controlling Equivalent, etc.

Performance (at Initial Value)

- Contact Resistance 100mΩMax. @1A, 6VDC
- Operate Time 15mSec. Max. (D Type)
20mSec. Max. (L Type)
- Release Time 8 mSec. Max.
- Dielectric Strength:
Between Coil & Contact 5,000VAC at 50/60 Hz
for one minute.
Between Contacts 1,000VAC at 50/60 Hz
for one minute.
- Surge Strength 10,000V (between Coil
& Contact 1.2x50μSec.)
- Insulation Resistance 100 MegaΩ Min. at
500VDC.
- Max. On/Off Switching:
Electrical 6 Cycles per Minute.
Mechanical 300 Cycles per Minute.
- Temperature Range -30~70°C
- Humidity Range 45~85% RH.
- Coil Temperature Rise 45°C Max. (D Type)
35°C Max. (L Type)

- Vibration :
Endurance 10 to 55 Hz dual
amplitude width 1.5mm.
Error Operation 10 to 55 Hz dual
amplitude width 1.5mm.
- Shock :
Endurance 1,000 m/S².
Error Operation 100 m/S².
- Life Expectancy :
Mechanical 10⁷ Operations at No
Load condition.
Electrical 10⁵ Operations at Rated
Resistive Load.
Weight About 12.2 g.

Safety Standard & Its File Number

- UL & CUL E141060
- TÜV (MI) R09552084
- TÜV (MIH) R09854160
- VDE (MI-L/LM/D/DM Type) 40013086
- CQC 02001001376

Coil Specification (at 20°C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
MI/MIH D/DM	3	240	12.5	Abt. 0.72	80% Maximum	5% Minimum	130%
	5	138.9	36				
	6	120	50				
	9	78.3	115				
	12	60	200				
	24	29.3	820				
MI/MIH L/LM	3	176.5	17	Abt. 0.54	80% Maximum	5% Minimum	130%
	5	106.4	47				
	6	88	68				
	9	58	155				
	12	44.4	270				
	24	21.8	1,100				
	48	10.9	4,400				

Ordering Information

MI - SS - 1 12 D M F

Insulation System:

Nil: Standard Class

F: F Class

Contact Form:

Nil: One Form C

M: One Form A

B: One Form B

Coil Type:

D: Standard DC Coil

L: High Sensitivity DC Coil

Coil Voltage:

03: 3V, 05: 5V, 06: 6V, 09: 9V, 12: 12V, 24: 24V, 48: 48V

Number of Pole:

1: One Pole

Type of Sealing:

SS: RT II Flux Proofed Relays

SH: RT III Wash Tight Relays

Type:

MI

MIH

Classification

Model	MI / MIH					
	Standard DC Coil			High Sensitivity DC Coil		
Coil Sensitivity						
Contact Form	1C	1A	1B	1C	1A	1B
Flux Proofed Relay	MI(H)-SS-1□□D	MI(H)-SS-1□□DM	MI(H)-SS-1□□DB	MI(H)-SS-1□□L	MI(H)-SS-1□□LM	MI(H)-SS-1□□LB
Wash Tight Relay	MI(H)-SH-1□□D	MI(H)-SH-1□□DM	MI(H)-SH-1□□DB	MI(H)-SH-1□□L	MI(H)-SH-1□□LM	MI(H)-SH-1□□LB

Accessories & Sockets

MI-1P

- PI-35BE See Page 175
- PI-35BE/3 See Page 175
- PI-35-0 See Page 177

Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

