

Main Feature

1. Single contact and double contacts type offer switching capacity by 15A in small size for exclusive automobile control relay switching box use.
2. Standard and European Specification are available to comply with various electrical specification requirements.
3. Simple magnetic circuit to meet mass production for low cost offer. Standard type is open type without dust cover. If dust cover is required, suitable cased relay can be prepared.
4. Bubble Test conforming to JIS standard will be conducted on the SX type of Relay for checking the Relay sealing.
5. Operating ambient temperature range covers from -30°C to 80°C at no current on Relay's contacts.

Contact Rating

Load Type	AR (DM)	AR (D)
Rated Load (Resistive)	3A 120VAC	3A 120VAC
	10A 12VDC	10A 12VDC
Rated Carrying Current	10A	10A
Max. Allowable Voltage	AC 120V	AC 120V
	DC 28V	DC 28V
Max. Allowable Current	10A	10A
Max. Allowable Power Force	360VA	360VA
	120W	120W
Min. Switching Load	DC 5V, 10mA	DC 5V, 10mA
Contact Material	Ag Alloy	Ag Alloy
Contact Form	SPST	SPDT

Application

Car Control Switching Box (Alarm System, Automatic Door Locking System....), Car Flashers.... etc.

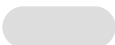
Performance (at Initial Value)

- Contact Resistance 100mΩMax. @1A,6VDC
- Operate Time..... 10 mSec. Max.
- Release Time 10 mSec. Max.
- Dielectric Strength:
Between Coil & Contact 1,000VAC at 50/60 Hz for one minute.
Between Contacts 500VAC at 50/60 Hz for one minute.
- Surge Strength 2,000V (between coil & contact 1x40 μ Sec.)
- Insulation Resistance 100 MegaΩ Min. at 500VDC.
- Max. On/Off Switching :
Electrical 20 Cycles per Minute.
Mechanical..... 300 Cycles per Minute.
- Temperature Range -25~80°C

- Humidity Range45~85% RH.
- Coil Temperature Rise60°C Max.
- Vibration:
Endurance..... 10 to 55 Hz dual amplitude width 1.5mm.
Error Operation 10 to 55 Hz dual amplitude width 1.5mm.
- Shock:
Endurance 1000 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 10 g.

Safety Standard & Its File Number

- UL & C-UL.....E141060



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)
AR (Standard)	6	150	40	Abt. 0.93	80% Maximum	5% Minimum	150% (for short time carrying current)
	9	93	97				
	12	77	155				
	15	59	255				
	18	47	380				
AR (European)	06	214	28	Abt. 1.1	60% Maximum	5% Minimum	160% (for short time carrying current)
	12	92	130				
	24	46	520				

Ordering Information

AR - SS - 1 12 D M 1

Specification:

Nil: Standard

Contact Form:

1: European

Coil Type:

Nil: One Form C

Coil Voltage:

M: One Form A

Number of Pole:

B: One Form B

Type of Sealing:

D: DC Coil

06: 6V, 09: 9V, 12: 12V, 15: 15V, 18: 18V, 24: 24V

1: One Pole

Nil: RT 0 Unclosed Relays

SS: RT II Flux Proofed Relays

SH: RT III Wash Tight Relays

Type:

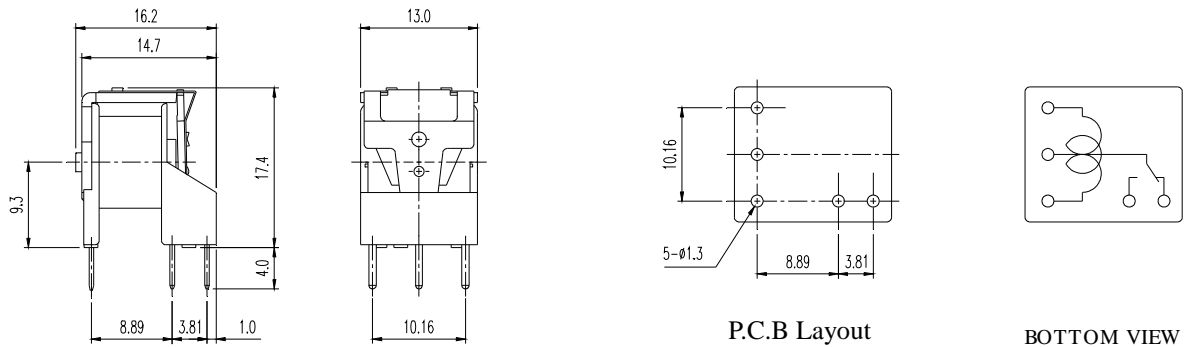
AR

Classification

Model	AR					
	Standard			European		
Contact Form	1C	1A	1B	1C	1A	1B
Open Type	AR-1□□D	AR-1□□DM	AR-1□□DB	AR-1□□D1	AR-1□□DM1	AR-1□□DB1
Flow Solder Type	AR-SS-1□□D	AR-SS-1□□DM	AR-SS-1□□DB	AR-SS-1□□D1	AR-SS-1□□DM1	AR-SS-1□□DB1
Plastic Sealed Type	AR-SH-1□□D	AR-SH-1□□DM	AR-SH-1□□DB	AR-SH-1□□D1	AR-SH-1□□DM1	AR-SH-1□□DB1

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

AR



AR-SS/SH

