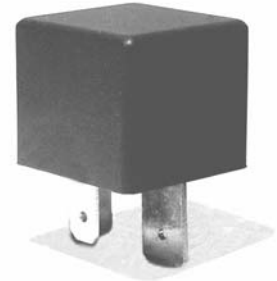


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AR2 Series

- Standard automotive type relay
- SPST-NO 70A capacity
- Heavy-duty Silver alloy contacts
- Coil paralleled diode or resistor
- Applications: automotive, industrial machinery, motor controls, general purpose



COIL DATA

Nominal Voltage (DC)	Nominal Coil Current (mA) (± 10% at 20°C)	Coil Resistance (Ω) (± 10% at 20°C)
6	273	22
12	133	90
24	73	330

Pick-up Voltage	≤60% nominal
Drop-out Voltage	≥10% nominal
Max. Coil Voltage	168% nominal
Coil Consumption	Approx. 1.6W

Contact

Configuration	A: 1 form A (SPST-NO)
Material	Silver (Ag) alloy
Rated Load	NO: 70A@14VDC
Initial Voltage Drop	SPST: 100mV@10A
Max. Carry Current	NO: 70A
Max. Switching Voltage	75VDC
Max. Switching Current	NO: 120A (lamp load)
Max. Switching Power	60 - 800W (application dependent)

CHARACTERISTICS

Contact Resistance	Max. 50mΩ
Operate Time	≤7ms
Release Time	≤2ms
Insulation Resistance	100MΩ (@500VDC, 50%RH)

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Dielectric Strength:

- Between coil and contacts 500VAC / one minute
- Between open contacts 500VAC / one minute

Vibration Resistance 10-18Hz, 1.5mm, single amplitude; 18-60Hz, 40m/s²

Shock Resistance 20g, 11msec.

Ambient Temperature

- Storage -40°C to 125°C
- Operate -40°C to 155°C

Relative Humidity 95% @ 40°C

Life Expectancy:

- Mechanical 1 x 10⁷
- Electrical 1 x 10⁵ (at rated load)

Weight Approx. 41 grams (dependent upon mounting type)

ORDERING INFORMATION

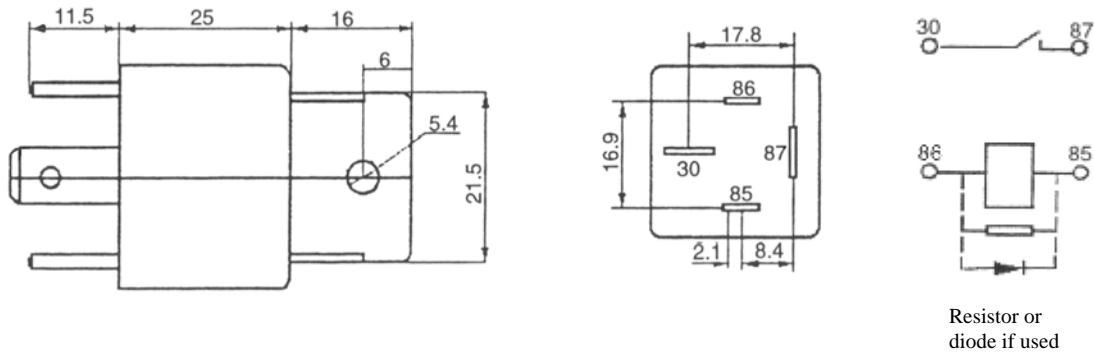
<u>AR2</u>	-	<u>012</u>	-	<u>A</u>	<u>0</u>	<u>1</u>	<u>M</u>	<u>S</u>
I		II		III	IV	V	VI	VII
I.	Series			AR2				
II.	Coil Voltage (VDC)			006, 012, 024				
III.	Contact configuration			A - 1 form A (SPST-NO)				
IV.	Coil Paralleled Component			0 - No component, 1 - Resistor, 2 - Diode				
V.	Connection Type			1 - Plug-in with 6.3mm terminal, 3 - Plug-in with 2.8mm terminal				
VI.	Mounting Type			N - No bracket, M - Molded bracket, R - Removable metal bracket				
VII.	Package Type			nil - dust cover, S - Sealed				

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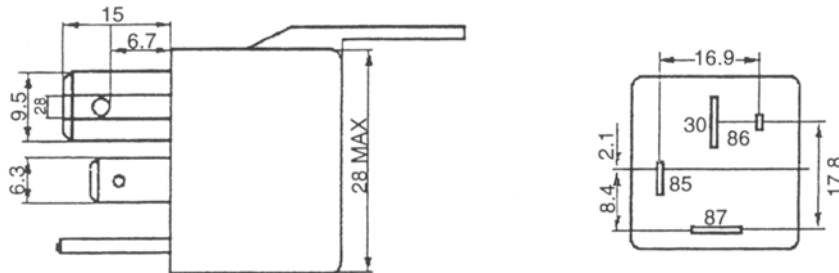
AR2 Series Dimensions and Schematics (in mm)

AR2 – 1N/M types (6.3mm coil terminals, no or molded bracket)

Terminal arrangement and wiring diagram



AR2 – 3N/M types (2.9mm coil terminal, no or molded bracket)



AR2 - R type (removable bracket)

