

General Specifications

Model AR-SA Arrester for Current Signal (4 to 20 mA DC)

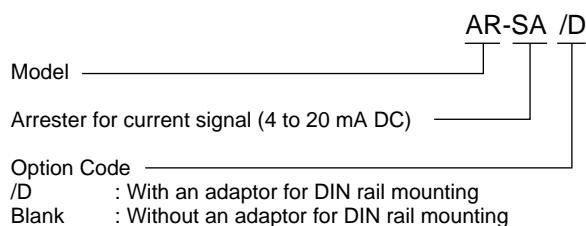
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GS AR01-01E

General

This high quality arrester protects electronic instruments by absorbing induced lightning surge voltage. Arrester should be set between lines through which surges are entered and serves to protect instruments such as transmitters or receivers safely from thunder inducement.

Model and Suffix Codes



Input and Output

Input Signal: 4 to 20 mA DC (12 to 30 V DC signal line)

Output Signal: 4 to 20 mA DC

Standard Performance

Permissible current leakage:

Between lines: 5 μ A or less (at 30 V DC)

Between ground: 10 μ A or less (at 50 V DC)

Instrument side voltage limit:

Between lines: 50 V or less (at 10 kV, 1.2/50 μ s)

Between ground: 250 V or less (at 10 kV, 1.2/50 μ s)

Surge discharge withstand capacity:

Between lines: 1000 A (at 8/20 μ s)

Between ground: 5000 A (at 8/20 μ s)

Discharge starting voltage:

Between lines: 35 V or more

Between ground: 74 V or more

Maximum load current: 100 mA

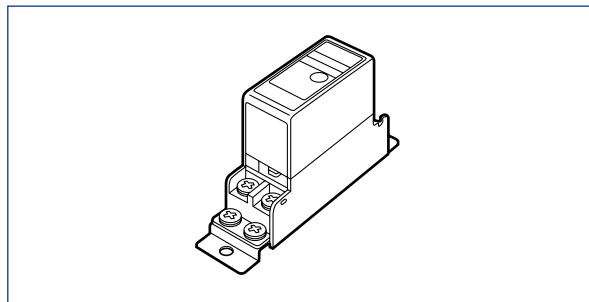
Series resistance: 33 Ω

Temperature: -10 to +60°C

Humidity: 5 to 90% RH (no condensation)

Safety Standards

Conforms to EN61010-1 Installation Category II



Mounting and Appearance

Construction: 2 sections construction of main body and terminal base: plug-in + screw fastening

Material: Black, flame deterrent ABS resin (Case body)

Black, flame deterrent ABS resin (Terminal base)

Grounding: JIS Class 3 grounding [100 Ω or less] (with grounding bar)

Mounting Method: Wall mounting with M4 screw

Connection Method: M4 screw terminal connection (fastening torque 1.2 N·m or less)

External Dimension: 55×23.5×100 mm (H×W×D)

Mounting Dimension: 90 mm

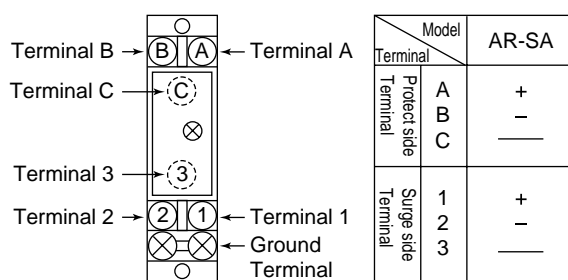
Multi-mounting pitch: 24 mm

Weight: Approx. 110 g

Additional Specs.

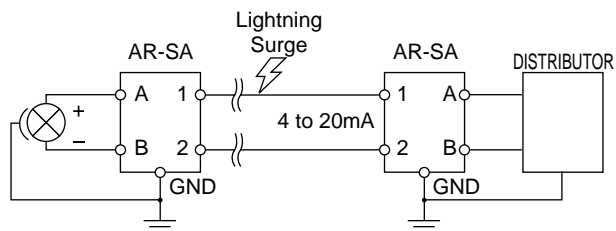
/ D	Adaptor for DIN rail mounting AR8-01: 1	Specs. of AR8-01 External dimensions: 104×23×85 mm For DIN rail 35 mm mounting Material: ABS resin 2 screws for connecting Main body and Adaptor
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■ Terminal Arrangement & Terminal Connection

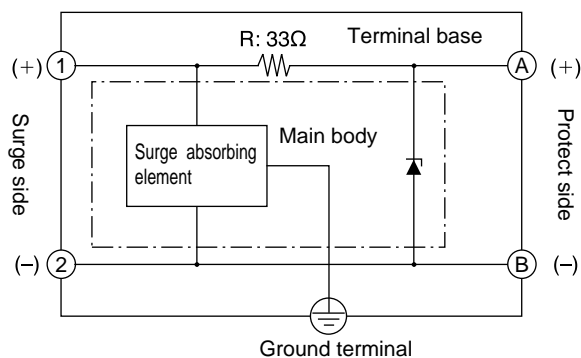


Model		AR-SA
Terminal	Protect side	
Terminal	A	+
	B	-
	C	—
Terminal	Surge side	
	1	+
	2	-
	3	—

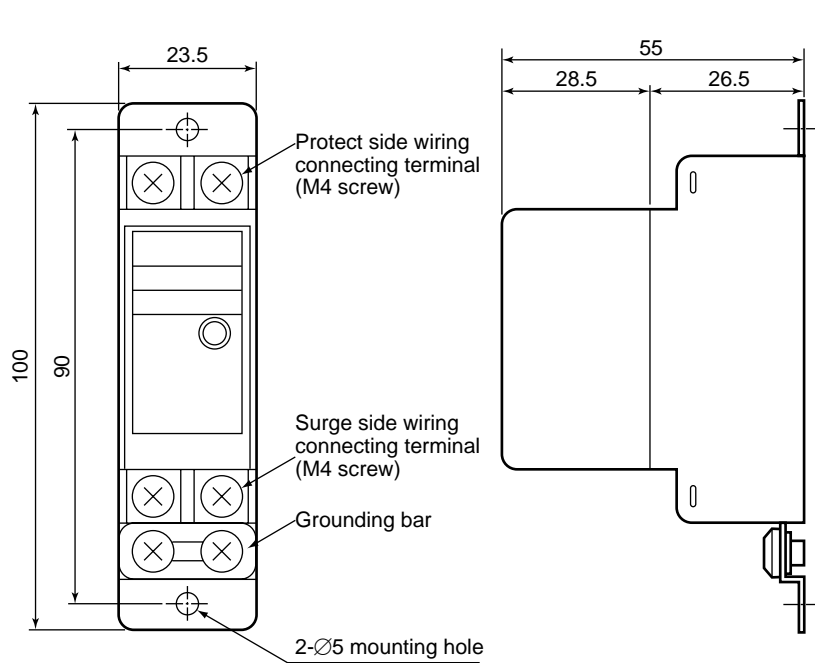
■ WIRING



■ Block Diagram



■ External Dimension



Unit: mm