

SIGNAL ARRESTER

DA - □

Use

DA series are indoor installation type arresters that can absorb voltage of induced lightning surge caused on a signal line by lightning discharge, thus protects instrument.

Features

1. Besides small plug-in structure, the device has a structure that line does not open even if main body is pulled out of terminal block. This feature makes the device superior in conservativeness.
2. Absorbs only surge without influencing measurement signals.

Specification

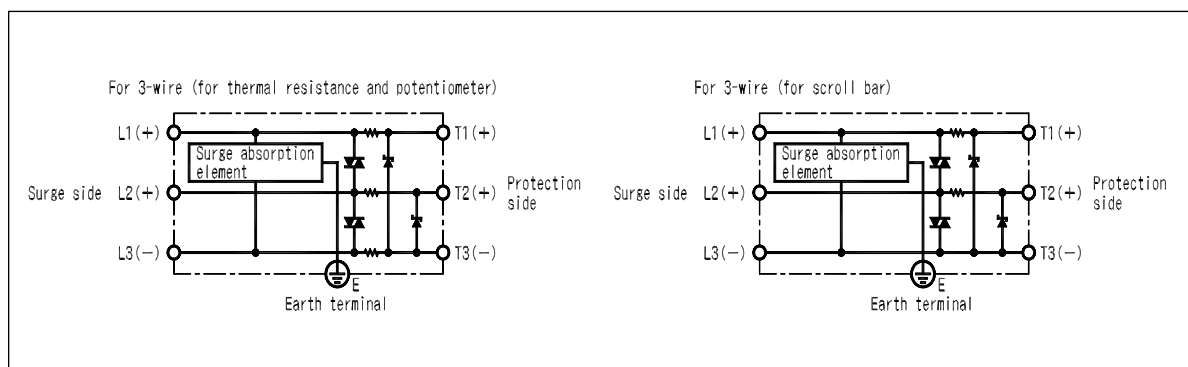
Common specification

Ambient temperature	-10~ + 55
Relative humidity	5-90%RH (no condensation)
Withstand voltage	Do not carry out a withstand voltage test. It may damage internal elements.
Earth	D type grounding (earth resistance 100) With connecting fitting for earth terminal
Structure	Small plug-in structure, material: fire retardant ABS resin (black)
Dimensions	W23.5×H100×D57mm
Mounting	Wall mounting
Weight	Approx. 120g

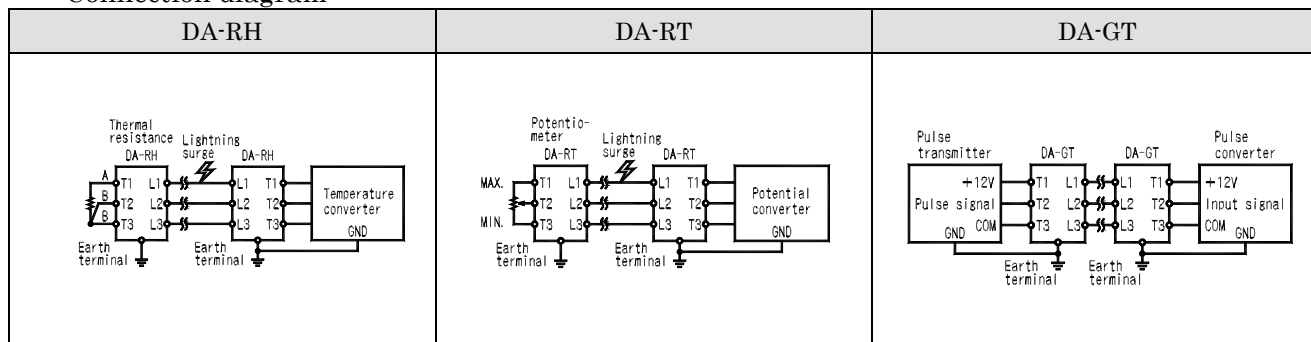
Individual specification

Type name			DA-RH	DA-RT	DA-GT
Signal			For thermal resistance	For potentiometer	For pulse
Performance	Spark over voltage	Line	3V	7.5V	14V
		Earth	600V	600V	600V
	Clamping voltage (line)		16V	16V	30V
	Leakage current	Line	2 μ A (at DC3V)	10 μ A (at DC7.5V)	10 μ A (at DC14V)
		Earth	2 μ A (at DC140V)	10 μ A (at DC140V)	10 μ A (at DC140V)
	Response time		0.1 μ s	0.1 μ s	0.1 μ s
	Discharge withstand current rating		1, 000A (8/20μs)	1, 000A (8/20μs)	1, 000A (8/20μs)
	Maximum load current		100mA	100mA	50mA
	Internal series resistance		Approx.10Ω±0.1% (30ppm/)	Approx.10Ω±0.1% (30ppm/)	Approx.10Ω
	Maximum line voltage		DC3V	DC7.5V	DC14V

Block diagram



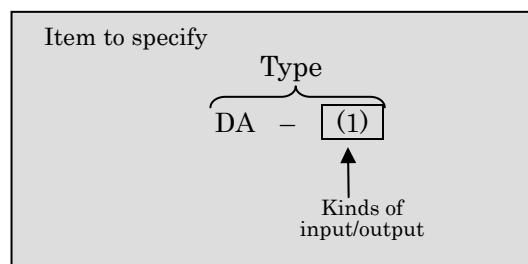
Connection diagram



Terminal arrangement

Application		DA-RH	DA-RT	DA-GT
Terminal				
Protection side terminal	T ₁	A	MAX.	+12V
	T ₂	B	Slider	Pulse signal
	T ₃	B	MIN.	COM
Surge side terminal	L ₁	A	MAX.	+12V
	L ₂	B	Slider	Pulse signal
	L ₃	B	MIN.	COM

Purchase specifications



(1) Kinds of input/output

Signal	Kinds of input/output
RH	For thermal resistance
RT	For potentiometer
GT	For pulse

