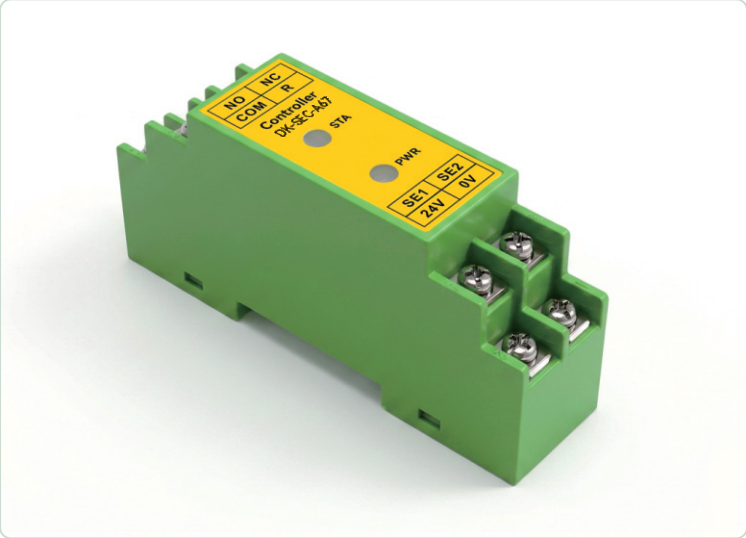
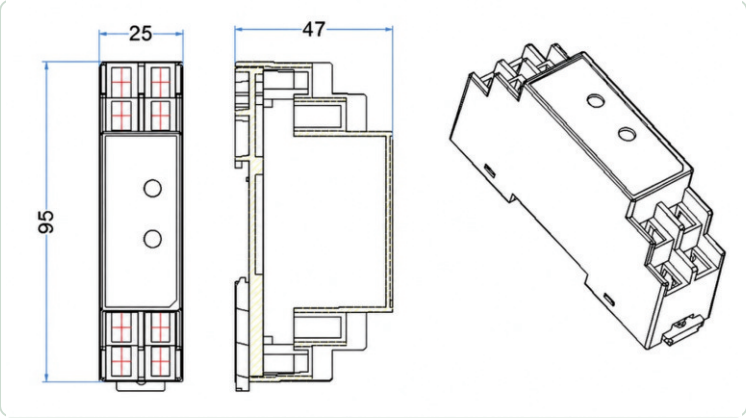
DK-SEC-A67

Safety Edge & Safety Mat Controller



DK-SEC-A67 · Safety Edge & Safety Mat Controller

Dimensions



Unit: mm

Features

- Supports conventional normally open safety edges and safety mats, as well as types with a sensing resistor.
- Detects and outputs the three states of the safety edge: normal, triggered and wire break.
- Selectable normally open and normally closed signal outputs.
- External LED indicators show the different states; a buzzer alarm sounds on wire break.
- Supports sensing resistors of 1.5Ω-30Ω and a trigger resistance of up to 500Ω.
- Standard 35mm rail mounting.
- DC12V-36V wide-voltage input.
- Supports 1-2 safety edge channels, with an independent wire-break signal output.

Technical Specifications

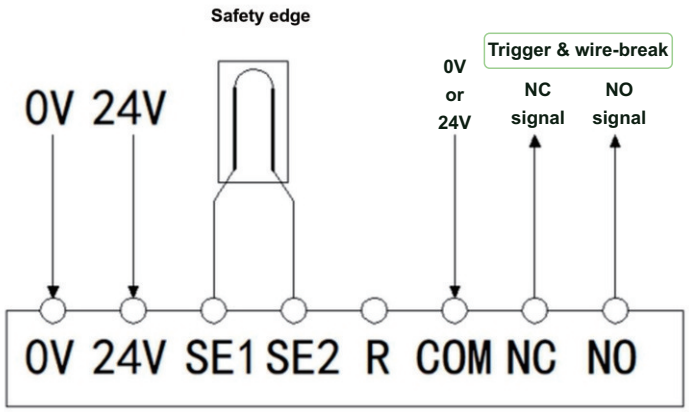
Parameter	Value	Parameter	Value
Number of safety edge channels	1 channel	Trigger resistance	K0~28KΩ
Signal output	Combined wire-break and trigger output	Durability	1,000,000 operations
Rated voltage	DC 24V	Housing material	ABS
Voltage range	DC 12V~36V	Operating ambient temperature	-40°C~80°C
Maximum current	20mA	Operating ambient humidity	85%RH (no condensation)
Rated power	0.48W	Mounting	35mm rail
Safety output	1NC+1NO DC24V 3A	Dimensions	L95*W25*H47mm
Load resistance	3K~30KΩ	Weight	70g±10%

Terminal & LED Markings

NO NC · COM R · SE1 SE2 · 24V 0V · STA PWR · Safety Edge Controller

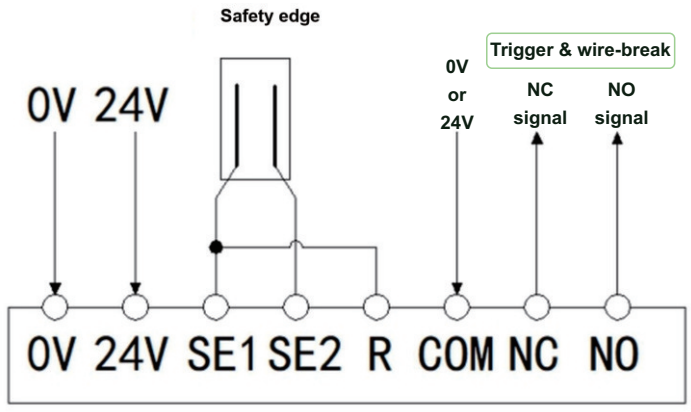
Wiring & Diagnostics

Wiring Diagram for a Safety Edge with a Series Terminating Resistor



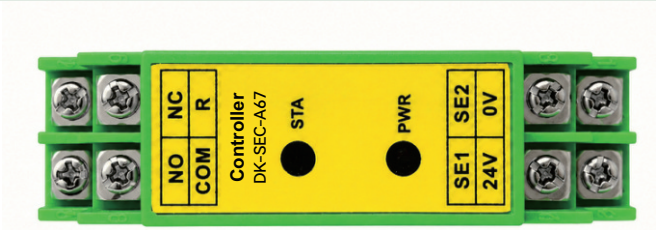
Terminals: 0V 24V SE1 SE2 R COM NC NO

Wiring Diagram for a Conventional Normally Open Safety Edge (No Series Terminating Resistor)



Terminals: 0V 24V SE1 SE2 R COM NC NO

System Module Diagram



STA Status indicator: lit when the safety edge is triggered.
PWR Power indicator: lit when power is present.

Signal Assignment

COM 0V or 24V
NC Trigger and wire-break NC signal
NO Trigger and wire-break NO signal

In the normal state of the safety edge, COM is connected to NC and disconnected from NO.

When the safety edge is triggered, COM is disconnected from NC and connected to NO, and the STA indicator lights up.

When the safety edge wire is broken, COM is disconnected from NC and connected to NO, the STA indicator lights up and the buzzer alarm is triggered. The status indicators are shown in the figure.

Troubleshooting

Symptom	Checks and Verification	Corrective Action
Buzzer alarm	Is a resistor connected in series with the safety edge?	Confirm whether a resistor is connected in series with the safety edge.
No output	Is the safety edge properly connected?	Confirm that the safety edge is properly wired.
	Is the power supply normal?	Confirm that the power supply is normal.
	Is the resistance too high after the safety edge is triggered?	Confirm that the resistance after triggering is ≤500Ω.