

# ISO MINI RELAYS SERIES

18 V AND 36 V MAX ISO MINI 6.3 MM FORM A, FORM 2A,  
AND FORM C RELAYS



R2-400112-RN

RC-400112-NN

## Description

Our ISO Mini Relays are compact, modular, general-purpose relays that allow you to tailor your vehicle's power distribution box for the capability you need, including lighting, starting, horn, heating and cooling, or fan control.

Adhering to the ISO Mini 6.3 mm form factor, these relays plug into existing, ISO Mini boxes along with fuses or other components (sold separately).

This series offers a wide selection of Mini relays to meet the requirements of a variety of applications. Options include Form A (SPST), Form 2A (SPST with two terminals), and Form C (SPDT) relays, versions with resistor suppression, diode suppression, or no suppression, and models that are sealed (IP64), unbracketed or unsealed (IP40), bracketed configurations.

## Web Resources

Download 2D print, installation guide and technical resources at: [littelfuse.com/ISO-MINI](http://littelfuse.com/ISO-MINI)

## Specifications

|                                   |  |
|-----------------------------------|--|
| <b>Current Rating Continuous:</b> | 20 ADC, 40 ADC                               |
| <b>Max Voltage Rating:</b>        | 36 VDC, 18 VDC                               |
| <b>Ingress Protection:</b>        | IP-40, IP-64                                 |
| <b>Mounting Method:</b>           | Panel Mount                                  |
| <b>Coil Voltage:</b>              | 12 VDC, 24 VDC                               |
| <b>Coil Impedance:</b>            | 90 $\Omega \pm 10\%$ , 360 $\Omega \pm 10\%$ |
| <b>Contacts:</b>                  | Silver Alloy                                 |
| <b>Input Terminals:</b>           | Tin-Plated                                   |
| <b>Output Terminals:</b>          | Tin-Plated                                   |
| <b>Temperature:</b>               | -40°C to 85°C                                |
| <b>Circuitry:</b>                 | SPST   |
| <b>Housing:</b>                   | Black Plastic Body                           |
| <b>Voltage Drop:</b>              | 30m $\Omega$ Max                             |
| <b>Insulation Resistance:</b>     | 100M $\Omega$ Min                            |

## Applications

- Lighting Control
- Starting Control
- Horn Control
- Heating and Cooling Control
- Fan Control

## Features and Benefits

- Broad offering of Form A (SPST), Form 2A (SPST with two terminals), and Form C (SPDT) relay options
- Rated for either 18 V max with a 12 V dc coil rating or 36 V max with a 24 V dc coil rating
- Versions are available with either a 20 A or 40 A continuous current rating
- Suppression options include resistor, diode, and no suppression
- Sealed (IP64) and unsealed (IP40) versions to match the water- and dust-protection requirements of your application
- Bracketed options are available for panel mounting

# ISO MINI RELAYS SERIES

## 18 V AND 36 V MAX ISO MINI 6.3 MM FORM A, FORM 2A, AND FORM C RELAYS

### Ordering Information

| PART NUMBER     | DESCRIPTION  | COIL TYPE                        | MOUNTING METHOD  |
|-----------------|--|----------------------------------|--|
| R2-400112-RN    | 18 V Max 40 A Form 2A ISO Mini Relay with Resistor Suppression and Bracket         | Isolated W/ Resistor Suppression | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| R2-400112-RN-BX | 18 V Max 40 A Form 2A ISO Mini Relay with Resistor Suppression and Bracket - Boxed | Isolated W/ Resistor Suppression | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RA-200024-DS    | 36 V Max 20 A Sealed Form A ISO Mini Relay with Diode Suppression                  | Isolated W/ Diode Suppression    | Blade Terminals Mounting                                   |
| RA-400112-DN    | 18 V Max 40 A Form A ISO Mini Relay with Diode Suppression and Bracket             | Isolated W/ Diode Suppression    | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RA-400112-DN-BX | 18 V Max 40 A Form A ISO Mini Relay with Diode Suppression and Bracket - Boxed     | Isolated W/ Diode Suppression    | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RA-400112-NN    | 18 V Max 40 A Form A ISO Mini Relay with Bracket                                   | Isolated                         | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RA-400112-NN-BX | 18 V Max 40 A Form A ISO Mini Relay with Bracket - Boxed                           | Isolated                         | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RA-400112-RN    | 18 V Max 40 A Form A ISO Mini Relay with Resistor Suppression and Bracket          | Isolated W/ Resistor Suppression | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RA-400112-RN-BX | 18 V Max 40 A Form A ISO Mini Relay with Resistor Suppression and Bracket - Boxed  | Isolated W/ Resistor Suppression | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RC-200124-DN    | 36 V Max 20 A Form C ISO Mini Relay with Diode Suppression and Bracket             | Isolated W/ Diode Suppression    | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RC-200124-DN-BX | 36 V Max 20 A Form C ISO Mini Relay with Diode Suppression and Bracket - Boxed     | Isolated W/ Diode Suppression    | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RC-200124-NN    | 36 V Max 20 A Form C ISO Mini Relay with Bracket                                   | Isolated                         | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RC-200124-NN-BX | 36 V Max 20 A Form C ISO Mini Relay with Bracket - Boxed                           | Isolated                         | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RC-200124-RN    | 36 V Max 20 A Form C ISO Mini Relay with Resistor Suppression and Bracket          | Isolated W/ Resistor Suppression | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RC-200124-RN-BX | 36 V Max 20 A Form C ISO Mini Relay with Resistor Suppression and Bracket          | Isolated W/ Resistor Suppression | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RC-400012-DS    | 18 V Max 40 A Sealed Form C ISO Mini Relay with Diode Suppression                  | Isolated W/ Diode Suppression    | Blade Terminals Mounting                                   |
| RC-400012-DS-BX | 18 V Max 40 A Sealed Form C ISO Mini Relay with Diode Suppression - Boxed          | Isolated W/ Diode Suppression    | Blade Terminals Mounting                                   |
| RC-400112-DN    | 18 V Max 40 A Form C ISO Mini Relay with Diode Suppression and Bracket             | Isolated W/ Diode Suppression    | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RC-400112-DN-BX | 18 V Max 40 A Form C ISO Mini Relay with Diode Suppression and Bracket - Boxed     | Isolated W/ Diode Suppression    | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RC-400112-NN    | 18 V Max 40 A Form C ISO Mini Relay with Bracket                                   | Isolated                         | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RC-400112-NN-BX | 18 V Max 40 A Form C ISO Mini Relay with Bracket - Boxed                           | Isolated                         | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RC-400112-RN    | 18 V Max 40 A Form C ISO Mini Relay with Resistor Suppression and Bracket          | Isolated W/ Resistor Suppression | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RC-400112-RN-BX | 18 V Max 40 A Form C ISO Mini Relay with Resistor Suppression and Bracket - Boxed  | Isolated W/ Resistor Suppression | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RA-200124-DN    | 36 V Max 20 A Form A ISO Mini Relay with Diode Suppression and Bracket             | Isolated W/ Diode Suppression    | BRACKET STYLE "L"<br>With Hole Diameter of 0.209" (5.3 MM) |
| RC-200024-DS    | 36 V Max 20 A Sealed Form C ISO Mini Relay with Diode Suppression                  | Isolated W/ Diode Suppression    | Blade Terminals Mounting                                   |