

# FORWARD REVERSE RELAY MODULES SERIES

## 14 V Max 50 A Motor Reversing Relay Module with Dynamic Braking



24452

### Description

Ideal for use as a lift or tarp motor relay, the Forward Reverse Relay Module can also be used on hoists, hatches, winches, snowplows, intake/exhaust fans, vehicle outriggers, and other reversing applications.

The motor reversing relay module reverses the direction of the motor when the appropriate control circuit is energized with a signal from a control switch. Dynamic braking stops the motor when the switch returns to the "off" position.

Thanks to its thermoplastic housing with Hencol sealant, the reversing relay module carries an IP67/IP68 rating, enabling use in harsh automotive and machine environments.

### Web Resources

Download 2D print, installation guide and technical resources at: [littelfuse.com/ForwardReverse](https://www.littelfuse.com/ForwardReverse)

### Specifications

|                                      |   |
|--------------------------------------|---|
| <b>Coil Voltage:</b>                 | 12 VDC                                      |
| <b>Max Voltage Rating</b>            | 14 VDC                                      |
| <b>Max Total Continuous Current:</b> | 50A   |
| <b>Operating Temp Range:</b>         | -40C to + 80°C                              |
| <b>Ingress Protection:</b>           | IP67 / IP68                                 |
| <b>Mounting Method:</b>              | Flanged slotted, 2x diam 0.2in x 0.3 length |
| <b>Housing:</b>                      | Black Thermoplastic and Hencol Sealant      |
| <b>Current Rating Inrush:</b>        | 150 A                                       |
| <b>Max Breaking Limit:</b>           | 225 Amp @ 12V, 5000 cycles                  |

### Applications

- Tarps
- Lifts
- Snowplows
- Winches
- Hoists

### Features and Benefits

- 50 A continuous current rating and 150 A current inrush rating
- 12 V dc coil rating and 14 V dc max voltage rating
- Dynamic brake capability stops the motor when the switch returns to the "off" position
- Sealed design is rated to IP67/IP68 for protection in harsh environments
- Single-pole, double-throw (SPDT) circuitry
- Monostable with common ground
- Heavy-duty silver contacts for a long cycle life

### Ordering Information

| PART NUMBER | DESCRIPTION   | RECOMMENED TORQUE                                | OUTPUT TERMINALS | INTPUT TERMINALS |
|-------------|---|--|------------------|------------------|
| 24452       | 14 V Max 50 A Motor Reversing Relay Module with Dynamic Braking         | For ¼-20 stud 40in.Lb<br>For #10-32 stud 12in.Lb | 2x ¼-20 Stud     | 2x ¼-20 Stud     |
| 24452-BX    | 14 V Max 50 A Motor Reversing Relay Module with Dynamic Braking - Boxed | For ¼-20 stud 40in.Lb<br>For #10-32 stud 12in.Lb | 2x ¼-20 Stud     | 2x ¼-20 Stud     |