

10

FLASHERS & TURN SIGNAL SWITCHES

CLIGNOTANTS ET COMMUTATEURS

*PALANCAS DIRECCIONALES /
DESTELLADORES*

VARIABLE-LOAD ELECTRONIC LED FLASHER

60–120 flashes per minute • Heavy-duty contacts; external wire provides ground • Steady flash rate for all LED and incandescent loads • Flash rate is electronically controlled

3 TERMINAL (PILOT):

44890 Flasher

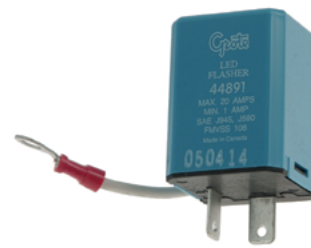
2 TERMINAL:

44891 Flasher

Regulations / Standards: FMVSS 108 / SAE J945™, J590™

Volts / Amp: 12V / 1–20A; 1–10 Lamp Load (Incandescent)

VMRS Code: 034-003-018

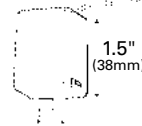


1.13" (29mm) SQ.



"X" Terminal-Input
"L" Terminal-Load
"P" Terminal-Pilot

1.13" (29mm) SQ.



"X" Terminal-Input
"L" Terminal-Load

3-PIN LED FLASHER

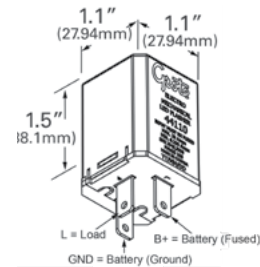
3-pin electronic LED flasher, 12-Volt • Max load: 20 amps
• Min Load: .25 amps • Flash rate: 60–120 flashes per minute

44110 Flasher

Regulations / Standards: FMVSS 108 / SAE J945™, J590™

Volts / Amp: 12V / .25–20A

VMRS Code: 034-003-018



5-PIN ELECTRONIC LED FLASHER

Direct replacement for OE flasher • Doesn't require a separate ground wire; uses factory wiring • Provides a steady flash rate for turn signals and hazard lamps even when using LED lamps • Electronically controlled flash rate, maintains the legally compliant flash rate

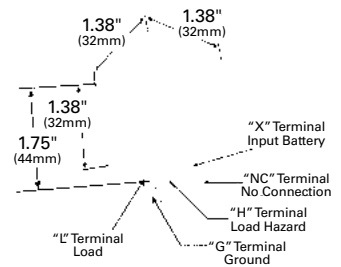
5 PIN:

44090 ISO Terminals

Regulations / Standards: FMVSS 108 / SAE J945™, J590™

Volts / Amp: 12V / 1–20A

VMRS Code: 034-003-018



10-LAMP ELECTROMECHANICAL FLASHER

Molded base and terminals • Heavy-duty contacts • 60–120 flashes per minute

2 TERMINAL:

44810 Flasher

44810-5 Flasher **RETAIL**

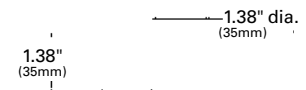
3 TERMINAL (PILOT):

44820 Flasher

Regulations / Standards: FMVSS 108 / SAE J945™, J590™

Volts / Amp: 12V / 2–20A; Lamp Load: 1–10 lamps

VMRS Code: 034-003-018



"P" Terminal-Pilot
"L" Terminal-Load
"X" Terminal-Input
"L" Terminal-Load
"X" Terminal-Input

1.13" (29mm) sq.

1.5" (38mm)

"X" Terminal-Input
 "L" Terminal-Load
 "P" Terminal-Pilot

1.13" (29mm) sq.

1.5" (38mm)

"L" Terminal-Load
 "X" Terminal-Input



12-LAMP ELECTROMECHANICAL FLASHER

60–120 flashes per minute • Available in standard 12-Volt and 24-Volt models • Less than 4mV per amp voltage drop • Exceeds SAE 100-hour test • Fits in a round flasher socket

2 TERMINAL:

44530 Flasher
 44530-5 Flasher **RETAIL**
 44850 Flasher **24 VOLT**

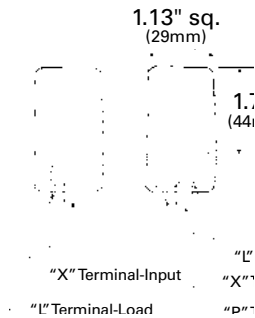
3 TERMINAL (PILOT):

44540 Flasher
 44860 Flasher **24 VOLT**

Regulations / Standards: FMVSS 108 / SAE J945™, J590™

Volts / Amp: 12V / 2–25A; Lamp Load: 1–12 lamps

VMRS Code: 034-003-018



16-LAMP ELECTRONIC FLASHER

60–120 flashes per minute • 11–15-Volts DC • Less than 4mV per amp voltage drop • Exceeds SAE 100-hour test • Fits in a round flasher socket

2 TERMINAL:

44690 Flasher

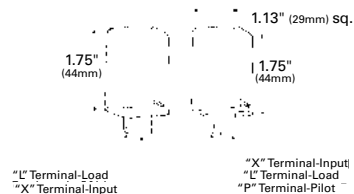
3 TERMINAL (PILOT):

44700 Flasher

Regulations / Standards: FMVSS 108 / SAE J945™, J590™

Volts / Amp: 12V / 2–33A; Lamp Load: 1–16 lamps

VMRS Code: 034-003-018



20-LAMP HEAVY DUTY ELECTRONIC FLASHER

60–120 flashes per minute • 11–15-Volts DC • Less than 3mV per amp voltage drop • Fits standard round socket • Exceeds SAE 100-hour test

2 TERMINAL:

44710 Flasher

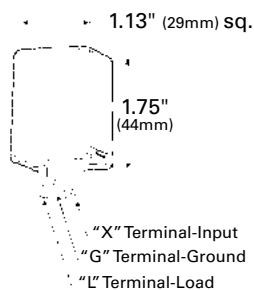
3 TERMINAL:

44720 Flasher

Regulations / Standards: FMVSS 108; SAE J945, J590

Volts / Amp: 12V / 2–42A; Lamp Load: 1–20 lamps

VMRS Code: 034-003-018



NORTH AMERICAN (JSO) PINOUT

Heavy-duty contacts • Flash rate electronically timed • Fits most Dodge®, Ford®, Honda®, Mitsubishi®, Nissan®, and Subaru® vehicles (see application guide) • Steady flash rate for all incandescent and LED loads

3 TERMINAL:

44892 Flasher

Regulations / Standards: FMVSS 108 / SAE J945™, J590™

Volts / Amp: 12V / 1–20A; Lamp Load: 1–10 Lamps

VMRS Code: 034-003-018

6-LAMP HEAVY-DUTY ALTERNATING ELECTRONIC FLASHER

11–15-Volts DC • Less than 4mV per amp voltage drop

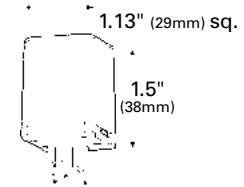
3 TERMINAL:

44730 Flasher

Regulations / Standards: FMVSS 108 / SAE J945™, J590™

Volts / Amp: 12V / 25A; Lamp Load: 1–10 lamps

VMRS Code: 034-003-018



"X" Terminal-Input
"L" Terminal-Load
"L" Terminal-Load

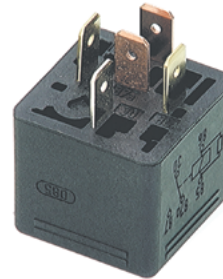
NON-LATCHING HEADLAMP DIMMER RELAY

Used for converting from floor-mounted dimmer switch to turn signal switch with lift-to-dim feature • Heavy-duty contact design provides years of trouble-free operation

44460 Relay

Volts / Amp: 12V / 20–30A capacity

VMRS Code: 034-003-018



24 TO 12 VOLT CONVERTER

Allows use of 12-Volt lighting/accessories on 24-Volt vehicles • Rugged die-cast housing • Solid-state, fully potted electronics

44070 Converter

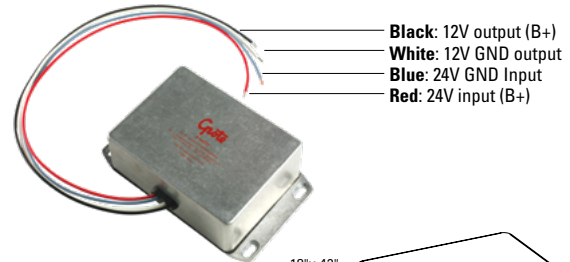
MULTI

Material: Aluminum

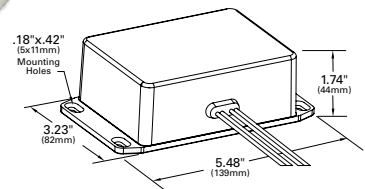
Finish: Bright

Volts / Amp: 18–32V input, 13.8V output / 3A max

VMRS Code: 034-003-018



Black: 12V output (B+)
White: 12V GND output
Blue: 24V GND Input
Red: 24V input (B+)



SOLID-STATE ELECTRONIC FLASHER

Designed for use with LED lighting • Provides steady flash rate over any load up to 12 amps • Fully-potted, solid-state electronics • Self-resetting feature provides internal protection against short circuits

44010 3-Wire

MULTI

44030 Alternating Flasher

MULTI

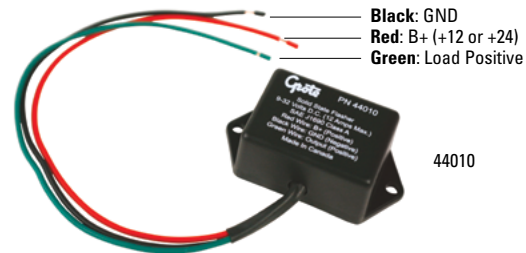
Material: Aluminum

Finish: Black

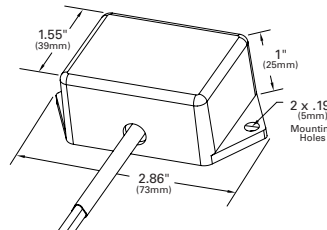
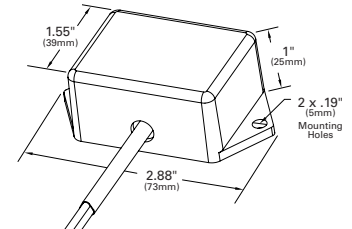
Regulations / Standards: FMVSS 108 / SAE J945™, J590™

Volts / Amp: 12–24V / 12A max (44030: 6A per side)

VMRS Code: 034-003-018



Black: GND
Red: B+ (+12 or +24)
Green: Load Positive



Black: GND
Red: B+ (+12 or +24)
Green: Load 1
Green: Load 2

44030



FLASHER APPLICATION GUIDE

Variable-load flashers may not have lamp outage indicators and may continue to flash at a normal rate even though one or more bulbs have failed. Inspect your lighting system frequently and replace any burned-out bulbs immediately. These flashers are designed for heavy-duty or trailer load applications.

Acura®

Year	Vehicle / Model	Exceptions	Part
1991-1986	Legend		44810
1997-1986	All others	CL, NSX, RL	44892

AMC®

Year	Vehicle / Model	Exceptions	Part
1988-1975	All		44810

BMW®

Year	Vehicle / Model	Exceptions	Part
1974-1976	All		44820

Buick®

Year	Vehicle / Model	Exceptions	Part
1996-1992	Century		44810
1990-1985	Electra		44810
1997	LeSabre		44810
1997	Riviera		44810

Cadillac®

Year	Vehicle / Model	Exceptions	Part
1993-1970	All	Allante, 1993 El Dorado and older	44810
1997-1994	All	others below	44892
1999-1989	Seville and STS	1990 Seville	44892
1997-1994	Catera		44810
1997-1994	Fleetwood		44810
1996-1970	All	1996 Skylark	44810

Chevrolet® / GMC®

Year	Vehicle / Model	Exceptions	Part
Pre-1997	2-Terminal Flasher	others if noted below	44810
Pre-1993	3-Terminal Flasher, Commercial Trucks Only		44540
1988-1987	Spectrum		44892
1988-1987	Sprint		44892
1993-1992	Vans with tow package		44530

Chrysler®

Year	Vehicle / Model	Exceptions	Part
	2-Terminal Flasher		44810
	5-Terminal Flasher		44090

Daihatsu®

Year	Vehicle / Model	Exceptions	Part
1992-1984	All	Rocky	44892

Dodge®

Year	Vehicle / Model	Exceptions	Part
	2-Terminal Flasher	others noted below	44810
1995-1970	All Cars	Monaco, Raider, 1985 Ram Van Wagon and Pickup	44810
1996-1986	Colt		44892
1993-1983	Ram 50		44892
1996-1986	Stealth		44892

Eagle®

Year	Vehicle / Model	Exceptions	Part
1989-1988	Medallion		44820
1996-1994	Summit		44892
1996-1992	Summit Wagon		44892
1993-1990	Talon		44892

Fiat®

Year	Vehicle / Model	Exceptions	Part
1983-1970	All		44820

Ford®

Year	Vehicle / Model	Exceptions	Part
	2-Terminal Flasher		44810
Pre-1993	3-Terminal Flasher, Commercial Trucks Only		44540
	3-Terminal Flasher		44892
	5-Terminal Flasher		44090
1997-1972	E-Series Truck		44530
1964	Thunderbird		44820

GMC®

Year	Vehicle / Model	Exceptions	Part
1991-1978	All		44810

Geo

Year	Vehicle / Model	Exceptions	Part
1996-1989	Metro		44892
1989	Spectrum		44892
1993-1990	Storm		44892
1995-1989	Tracker		44892

Honda®

Year	Vehicle / Model	Exceptions	Part
	2-Terminal Flasher		44810
	3-Terminal Flasher		44892
1981-1976	Accord		44810

Hyundai®

Year	Vehicle / Model	Exceptions	Part
1995-1989	All		44892

Infiniti®

Year	Vehicle / Model	Exceptions	Part
1996-1990	All	1996 I30	44892

International®

Year	Vehicle / Model	Exceptions	Part
1980-1974	All		44810

Isuzu®

Year	Vehicle / Model	Exceptions	Part
2004-1987	All		44892

Jaguar®

Year	Vehicle / Model	Exceptions	Part
1996-1978	XJ6, XJS, XJ12		44820
1989-1986	XJ6, XJS		44892

Jeep®

Year	Vehicle / Model	Exceptions	Part
1997-1994	Grand Cherokee		44090
1996-1978	All	1993 Grand Wagoneer, 1996 Grand Cherokee, 1986 CJ and Scramble	44810

Lincoln®

Year	Vehicle / Model	Exceptions	Part
	2-Terminal Flasher		44810
	3-Terminal Flasher		44892
	5-Terminal Flasher		44090

Mazda®

Year	Vehicle / Model	Exceptions	Part
1984-1971	2-Pin		44180

Mercury®

Year	Vehicle / Model	Exceptions	Part
	2-Terminal Flasher		44810
	3-Terminal Flasher		44892
	5-Terminal Flasher		44090

Mitsubishi®

Year	Vehicle / Model	Exceptions	Part
	2-Terminal Flasher		44810
	3-Terminal Flasher	others noted below	44892

Nissan®

Year	Vehicle / Model	Exceptions	Part
	2-Terminal Flasher		44810
	3-Terminal Flasher		44892

Oldsmobile®

Year	Vehicle / Model	Exceptions	Part
	2-Terminal Flasher		44810
	5-Terminal		44090

Peugeot®

Year	Vehicle / Model	Exceptions	Part
1991-1982	All		44820

Plymouth®

Year	Vehicle / Model	Exceptions	Part
1991-1975	All		44810

Pontiac®

Year	Vehicle / Model	Exceptions	Part
	2-Terminal Flasher		44810
	5-Terminal		44090
1991-1989	LeMans		44892

Porsche®

Year	Vehicle / Model	Exceptions	Part
	2-Terminal Flasher	others noted below	44810
1986-1978	924 (Hazard Flasher)		44820
1982-1978	928 (Hazard Flasher)		44820
1986-1978	944 (Hazard Flasher)		44820

Renault®

Year	Vehicle / Model	Exceptions	Part
1986-1983	2 Pin		44810
1986-1983	3 Pin		44820
1980-1978	All (Hazard Flasher)		44820
1985-1982	Alliance		44810
1985-1984	Encore		44810
1985-1982	Fuego		44820

SAAB®

Year	Vehicle / Model	Exceptions	Part
1980-1978	99 and 99GL		44892
1981	900		44892
1999	Sonett		44820
1975-1974	All		44820

Subaru®

Year	Vehicle / Model	Exceptions	Part
	2-Terminal Flasher		44810
	3-Terminal Flasher		44892

Suzuki®

Year	Vehicle / Model	Exceptions	Part
	All		44892

Toyota®

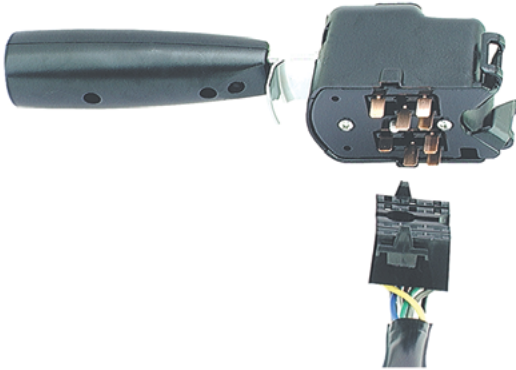
Year	Vehicle / Model	Exceptions	Part
1980-1978	Cresida		44892
1980-1978	Land Cruiser		44810
1997	Previa		44892

Triumph®

Year	Vehicle / Model	Exceptions	Part
1982-1970	All (Turn Flasher)		44810
1982-1970	All (Hazard Flasher)	44820	

Yugo®

Year	Vehicle / Model	Exceptions	Part
	All		44820



UNIVERSAL 7-WIRE / 4-WIRE TURN SIGNAL SWITCH KIT

Replaces Truck-Lite® and Signal-Stat® 900-902, 920 and 2900-3 • Includes switch, mounting hardware and 24" blunt-cut harness • 4- or 7-wire system • Adapts to applications without brake override functions • For applications with floor-mounted dimmer switch • 18-bulb capacity makes switch ideal for triple trailer configurations • Compatible with 24-Volt systems if indicator bulb is replaced with Grote's 24V bulb (1450) • Mounting hardware kit includes threaded inserts with screws for mounting to existing brackets and a worm gear clamp with a range of 1.6" to 2.5" for mounting to circular column tubes

48072 Turn Signal Switch Kit

Regulations / Standards: FMVSS 108 / SAE Q

Finish: Black

Bulb: (Indicator) 53, 1 CP

Voltage/Amp: 12V / .12A

Accessory: Switch: 48272; Harness: 69680

VMRS Code: 034-003-016



UNIVERSAL TURN SIGNAL SWITCH

Universal replacement without high-low beam function • 18-bulb capacity makes switch ideal for triple-trailer configurations • Mounting hardware kit includes tapped inserts with screws for mounting to existing brackets and a worm gear clamp with a range of 1"–2.5" for mounting to circular column trucks • Integral RH and LH turn/hazard indicator lights • Adapts to applications without brake override functions • Compatible with 24-Volt systems if indicator bulb is replaced with Grote's 24V bulb (1450)

48272 Turn Signal Switch

Regulations / Standards: FMVSS 108 / SAE Q

Finish: Black

Bulb: (Indicator) 53, 1 CP; Voltage/Amp: 12V / .12A

Accessory: Harness: 69680

VMRS Code: 034-003-016



UNIVERSAL TURN SIGNAL SWITCH WITH LIFT-TO-DIM

18-bulb capacity makes switch ideal for triple-trailer configurations • Mounting hardware kit includes tapped inserts with screws for mounting to existing brackets and a worm gear clamp with a range of 1"–2.5" for mounting to circular column trucks • Adapts to applications without brake override functions

48282 Universal Turn Signal Switch

Regulations / Standards: FMVSS 108 / SAE Q

Finish: Black

Accessory: Harness: 69690

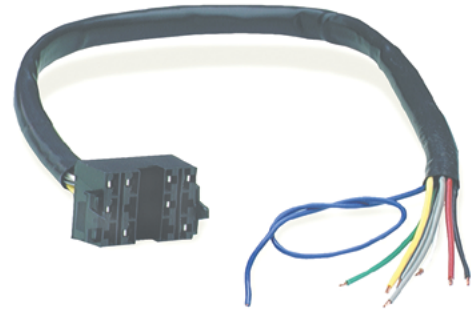
VMRS Code: 034-003-016

UNIVERSAL REPLACEMENT HARNESS

Fits 48272 switch • Overall length of 24" is sufficient for most applications
 • Flexible, black PVC loom adds protection without adding rigidity • 4- to 7-wire system compatible • Includes circuitry for switches with integral RH and LH turn/hazard indicator light

69680 Universal Harness

VMRS Code: 034-003-016

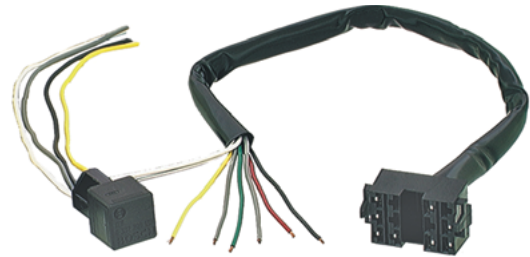


UNIVERSAL PLUG-IN WIRING HARNESS WITH LIFT-TO-DIM

Fits 48282 switch • Includes 44460 non-latching relay • Includes connector for headlamp relay • 4- to 7-wire system compatible • Overall length of 24" is sufficient for most applications • Flexible, black PVC loom adds protection without adding rigidity

69690 Universal Harness

VMRS Code: 034-003-016



FREIGHTLINER® AND KENWORTH® OEM REPLACEMENT SWITCH WITH HARNESS

Replaces Freightliner® GRO 01-4811-87, Grote® 01-4811-87, and Paccar® K301-295-3 • Black worm gear mounting clamp included • OEM-style, 20" plug-in wiring harness included • 18-bulb capacity makes switch ideal for triple-trailer configurations

48532 Turn Signal Switch Kit

Regulations / Standards: FMVSS 108 / SAE Q

Finish: Black

VMRS Code: 034-003-016



FREIGHTLINER® OEM REPLACEMENT SWITCH

Replaces Freightliner® GRO 01-4811-77 • 18-bulb capacity makes switch ideal for triple-trailer configurations • Plugs into OE harness on truck
 • Mounts with a separate worm gear clamp

48522 Turn Signal Switch Kit

Regulations / Standards: FMVSS 108 / SAE Q

Finish: Black

VMRS Code: 034-003-016





OEM-STYLE TURN SIGNAL SWITCH

Replaces Freightliner® GRO 01-4813-80 and GRO 01-4813-81 • 18-bulb capacity makes switch ideal for triple-trailer configurations • Mounting bracket included

48552 Turn Signal Switch

Regulations / Standards: FMVSS 108 / SAE Q

Finish: Black

VMRS Code: 034-003-016



OEM-STYLE TURN SIGNAL SWITCH FOR PACCAR®

Replaces PACCAR® 01-4813-91, TRW® 480819 without harness • 18-bulb capacity makes switch ideal for triple-trailer configurations • Adapts to applications without brake override function • Provides hazard/warning, right/left turn, lift-to-dim functions

48132 Turn Signal Switch

Regulations / Standards: FMVSS 108 / SAE Q

Finish: Black

VMRS Code: 034-003-016

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OEM-STYLE TURN SIGNAL SWITCH FOR INTERNATIONAL®

Replaces International® 354493C92 without harness • 18-bulb capacity makes switch ideal for triple-trailer configurations • Adapts to applications without brake override function • Provides hazard/warning, left/right turn, lift-to-dim functions

48283 Turn Signal Switch

Regulations / Standards: FMVSS 108 / SAE Q

Finish: Black

VMRS Code: 034-003-016



OEM-STYLE MARKER / FLASH AND WIPER TURN SIGNAL SWITCH FOR INTERNATIONAL®

Replaces International® 2004505C91 without harness • 18-bulb capacity makes switch ideal for triple-trailer configurations • Adapts to applications without brake override function • Provides hazard/warning, left/right turn, lift-to-dim functions • Mounting hardware kit includes tapped inserts with screws for mounting to existing brackets and a worm gear clamp with a range of 1"–2.5" for mounting to round columns • Chrome-plated end push-button for flashing marker lamps • Slide switch for 2-speed wiper control

48442 Turn Signal Switch

Regulations / Standards: FMVSS 108 / SAE Q

Finish: Black

VMRS Code: 034-003-016



NEED HELP FINDING THE RIGHT PRODUCT?

GROTE® CUSTOMER SERVICE IS JUST A PHONE CALL AWAY

800-628-0809

