

# ADR SERIES MAGNETIC BATTERY SWITCH

250A • 12V-24V DC • IP67/IP69K



## Description

The ADR (Accord Dangereux Routier) Battery Disconnect Switch is a bistable/magnetic, current isolating switch designed for dangerous goods carriage vehicles. Its ON-OFF position is different than traditional current isolating switches. It uses a minimum current when it is turned on and zero when it is off. The "magnetic ON-OFF position" absorbs current only during the commuting phase: when switched from (OFF) to (ON) and vice versa. Generally referred as "bistable with zero consumption", the switch connects/disconnects the electric circuit to/from the battery.

One P/N can be utilized for both 12V and 24V. The ADR Battery Disconnect Switch is a positive disconnection switch available either as a base unit or complete kit with ATEX compliant chassis switch, cabin toggle switch, switch protection cover, and harnesses.

The ADR Disconnect Switch can also be used for non-ADR applications that can utilize a programmable disconnect time delay (between 1 sec. and 1 hour). ADR applications are required to break circuit within 10 sec. of activation.

## Features

- ADR (Accord Dangereux Routier) application
- Magnetic Bi-Stable Retention
- 12V-24V
- Switch OFF programmable delay available for Non-ADR applications
- Complete kit comes with Chassis Switch
- Complete kit comes with Cabin Switch with cover
- Integrated 7-way DIN connector
- M10 terminal studs

## Applications

- Heavy Duty Trucks
- Agriculture
- Construction
- Commercial Vehicles

## Web Resources

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

## Specifications Overview

<b>Amperage:</b>	250A Continuous Carry
<b>Voltage Rating:</b>	9V-32V @ 23°C
<b>Circuitry:</b>	SPST
<b>Ingress Protection:</b>	IP67/69K (w/DIN Connector plugged in)
<b>Max Cranking Current:</b>	1000A x 30 sec
<b>Max Peak Current (S.C.):</b>	2000A x 5 sec
<b>Command Supply Output:</b>	1.85A continuous @ 23°C 3.70A as overload protection @ 23°C
<b>Command Input Lines Current:</b>	1.5mA @12V, 3.2mA @24V
<b>AUX Line:</b>	2A continuous @ 23°C 15A as overload protection @ 23°C
<b>Quiescent Current:</b>	0mA (@12V and 24V)
<b>Surface Explosive Gas Atm. Mark:</b>	II 2G Ex eb IIC T6 Gb (Tamb = -40 +80°C)
<b>Surface Explosive Dust Atm. Mark:</b>	II 2D Ex tb IIIC T85°C IP67 Db
<b>Mine Explosive Atm. Mark:</b>	I M2 Ex eb T150°C Mb
<b>R10 Rev05 Marking:</b>	E24 10R 05 0891
<b>Non-ADR Application Time Delay:</b>	Programmable from 1 sec. to 1 hour

## Benefits

- Meets requirements for transportation of hazardous materials. Mining, Gas & Dust atmosphere application (according EU regulation).
- Magnetic field enables switching between two stable states. State change must be facilitated by a coil pulse. No opening risk at voltage drop.
- One P/N for 12V and 24V
- Allows Non-ADR vehicle subsystems to maintain power for a period of time after vehicle turned off
- External switch w/LED and cover, ATEX compliant
- ATEX (ATmospheres EXplosible) marking and ADR requirements compliance
- Control output to 7-way harness with kit
- IP54 ADR terminal protections

## Ordering Information

PART NUMBER	DESCRIPTION
08075300	ADR Battery Disconnect Switch Complete Kit The kit includes all the below part numbers
08075360	ADR Battery Disconnect Switch
00227073	Chassis Switch ATEX Compliant w/Cover
00901560	Cabin Toggle Switch ATEX w/Red Silicon Cover
00900560	Switch Protection Cover
00712600	7-Way DIN Harness
00712500	4-Way DIN Harness

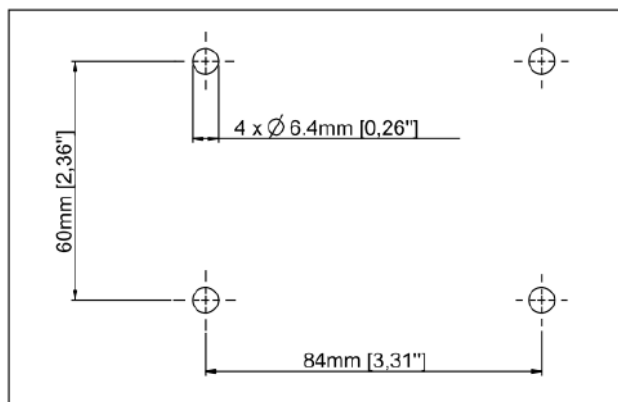


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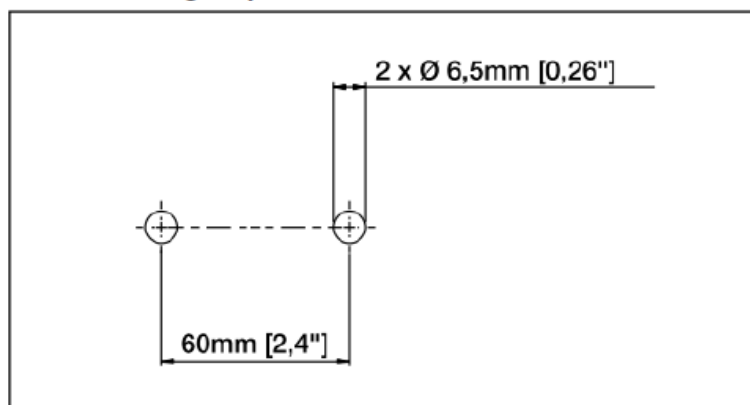
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## Mounting Diagram

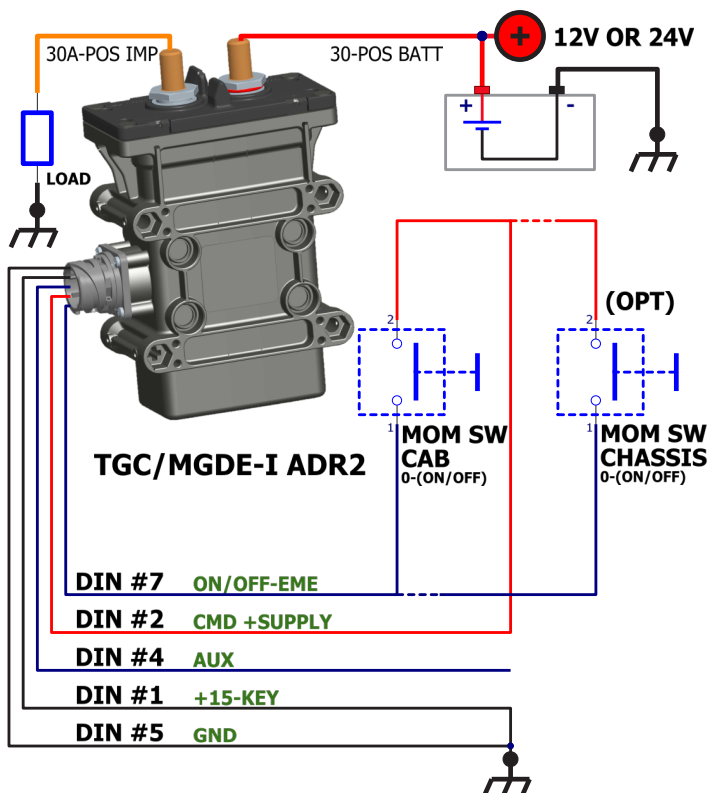
Battery Main Switch



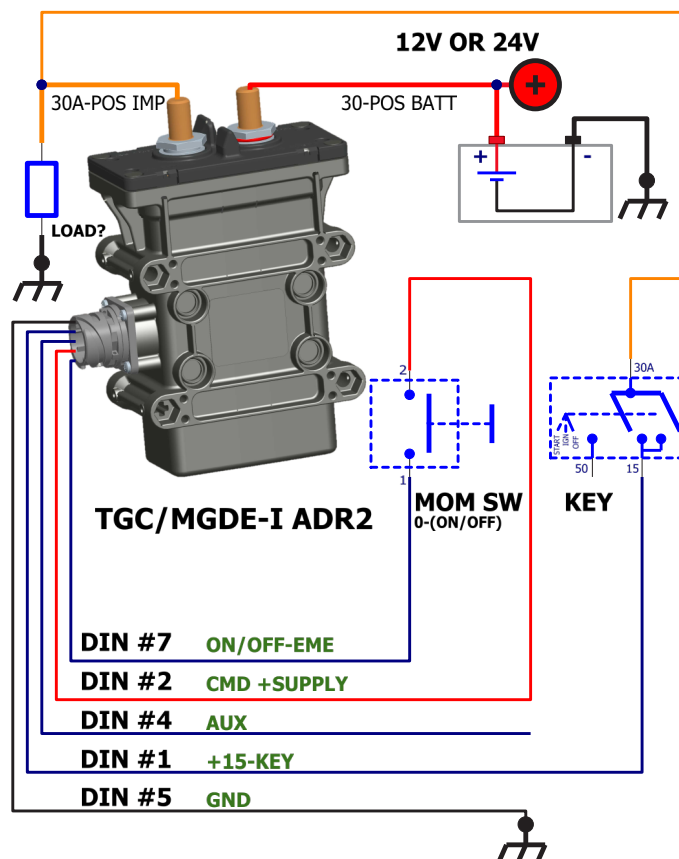
External Emergency Switch



## Electrical Diagram



### ADR APPLICATION



### NON-ADR APPLICATION



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## Emergency engine self-switchoff with AUX line

