



KISSLING ADR BATTERY MASTER SWITCH

Series 87 - from TE Connectivity (TE)

For trucks, which are to be used for transportation of hazardous materials as defined by European legislation ADR 2003 section 9.2.2.3, an Emergency disconnecter between the battery and the electrical system is required.

In case of an emergency the battery master switch can for example be set from within the cab or the exterior of the vehicle.

The main components of the ADR battery master switch are the proven 200A or 300A bistable KISSLING relays, which are connected into the main power circuit directly behind the battery and an electronic control, which controls the ON / OFF function in respect to the required function based on law.

The ADR battery master switch closes, if the Emergency switches and the ignition switch are closed. Interrupting the ignition switch, the main contact will open after an adjustable customer specific delay.

Dependent on the situation of further input signals - i.e. air conditioning system, refrigerator or parking light the interruption can be controlled or delayed. Additional outputs will disconnect the generator before load peaks are generated. If one of the emergency switches is activated, the battery will be separated from the electrical system immediately.

Further function

- Monitoring of relay condition. Possible error messages.
- Timer functions are available by changing the software, for example different delay times according Euro 4 or Euro 5.
- Minimum charge monitoring for battery protection is possible.

Licence

- Applicable in Zone 1 and Zone 2 per ADR 2003
- Design examination TÜV Süd TÜ.EGG. 086-04 ADR 2003 9.2.2.3
- Electronic: T = -40°C to +85°C
ExIIIG EEx m ib IIC T6 / T4

Specification

Technical Data

Temperature range	-40°C to +85°C
Protection	IP6K9K (DIN40050-9 and IEC 529.2)
Shock	ISO/DIS 16750-3: 4.2.2.2 Class A
Vibration	ISO/DIS 16750-3: 4.1.3.2.3 Test 7
Resistance to solvents	ISO/DIS 16750-5Z
Housing material	PBT
Terminals material	CuZn / Brass
Wire section	min 95mm ² / AWG 000

Electrical Characteristics

Voltage range	18-32VDC
Nominal voltage	24VDC
Min. Insulation Resistance	100M Ω
After llve or environmental	50M Ω
Dielectric withstanding voltage	500VAC / 1min at 50Hz
Max. Contact drop, initial	150mV
Contact drop after life test	175mV
Continuous current	300A
Overload	2400A - 1sec / 600A - 20sec

Rated contact load

Resistive load	50.000 cycles - 300A
Mechanical Life	100.000 cycles

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