



MODEL: "BCS 24"

An ISO 9001 : 2008 Company
Factory : K- 10/2, M. I. D. C., Hingna
Nagpur- 440 016, Phone: 07104-646949

Need of Automatic Battery Cut off Switch

1. Required by DGMS in their circular no. 05 dated 13-10-2010. In this circular DGMS insisted Battery Cut off switch as safety feature to minimize risk of accident due to fire.
2. It should continuously monitor the battery voltage and as soon it detects the battery voltage below 24 Volts, automatically isolates the battery from the electrical system. If it is not done and battery is continued to be used without recharging, its internal structure of cell damages and battery becomes completely unserviceable. In this condition it does not accept the recharging.
3. If excess current is taken from the Battery in faulty condition, automatically the battery connection should be disconnected, otherwise this may cause fire.
4. When vehicle is started; current drawn from the battery is very high. This condition should be restricted only for 30 Seconds. Within this period if engine does not start, Battery Cutoff Switch should automatically disconnect the battery supply.
5. If Battery Cutoff Switch activates; battery should be disconnected from the nearest point. Therefore for maximum safety, it should be connected nearest to the positive (+) battery terminal.



Advantage of our Automatic Battery Cut off Switch (BCS 24)

- a) It delivers all the function needed as above.
 - b) It is easy to install in vehicle.
 - c) It can be operated both manually and with remote control.
 - d) Specially designed for mining conditions.
 - e) It is waterproof, dust proof and vibration proof.
 - f) It prevents both vehicle and operator from getting stranded with a dead battery.
 - g) It protect vehicle from theft & tempering as anti-theft device.
 - h) It prevents battery voltage to go below to 24V, so that the vehicle engine starts instantaneously.
 - i) When Automatic Battery Cut off Switch (BCS 24) is connected in between battery and engine, the moment 24 V supply from the battery is lowered to 23.9 V, it disconnect the supply to engine. This indicates that the battery is by then fully utilized and is in discharged condition; therefore needs charging or else it will be fully discharged and become dead.
1. What to do if engine requires continue to run? In automobile vehicles, where battery is being charged regularly through alternator and well maintained, this situation does not occur. However in order to avoid disruption of work the battery cutoff switch can be disconnected from circuit either through yellow knob or through remote. If at all it is desired that engine should not stop in any circumstances, a bypass connection, provided with the battery cutoff switch may be connected.
 2. How Battery Cut off Switch protect battery when vehicle is idle? When vehicle is idle for longer period (When parked after duty hours or handed over to garage for repair or maintenance) and battery continued to remain connected, it may discharge. Though the power consumed due to leakage in such condition is small, but since it is for longer period round the clock, it is sufficient to discharge, in some cases to the extent it may that it may become unserviceable. In order to avoid such situation, driver when get down from the vehicle, easily can disconnect the battery through yellow knob or remote available in battery cut off switch.

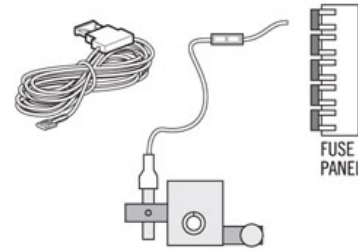


Manufacturers of D.G.M.S. Approved Equipments

204, Bhiwapurkar Chambers, Dhantoli, NAGPUR 440 012 Ph.(0712) 2451900
web : www.automationcontrol.in email: automat.ngp@gmail.com

Installation of Bypass wire connection

- A. Slide the connector end of the Bypass wire onto the Butterfly Connector On the female positive post of Automatic Battery Cut off Switch.
- B. Locate the motor's fuse box and the desired fuse.
- C. Remove the fuse and insert it into the fuse connection in the bypass wire.
- D. Connect the exposed end of the bypass wire into the outbound leg of the fuse box to activate the device.
- E. How Automatic Battery Cutoff Switch protect battery when vehicle is idle: When vehicle is idle for longer period (parked after duty hours or handed over to garage for repair and maintenance) and the battery is continued to remain connected, it may discharge. Though the power consumed due to leakage in such condition is small, but since it is continues round the clock, it is sufficient to discharge, in some cases to the extent that it becomes dead. In order to avoid such situation, driver when get down from the vehicle, easily can disconnect the battery through yellow knob or remote available in battery cut off switch.



Technical Specifications:

1. Dimensions: 4 cm (1 5/8") x 5.5 cm (2 1/4") x 6 cm (2 1/2")
2. Weight: 408 gm
3. Normal operation mode: 10 milliamps.
Current drawn under normal operating condition: up to 250 amps.
4. Operational temperature range: -51 to 90°C



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