



BCM – BODY CONTROL MODULE

A modern car has to do more than just providing a means of transportation. It has become a small living room with numerous comfort and safety functions. BCMs are the hardware and software core component for these functions. They interconnect and control comfort and safety functions as well as the power management system. BCMs also provide the diagnostic interface when repairing or servicing the vehicle.

Whenever the driver turns on the lights, heats up his seat or uses the windscreen wipers, the BCM functions as the control center. Inside a well-equipped mid-range car, the BCM communicates with about 60 different electronic modules. As part of integrated energy management system, it contributes to minimizing the power consumption of the entire vehicle. In this way, HELLAs BCMs help to reduce the overall CO₂ emissions of the vehicle.

Using the experience of over 25 years in the development and manufacture of BCMs and with more than 100 million produced modules, HELLA is globally one of the leading BCM suppliers. In addition to our established customer-specific solutions, we also offer modular BCM concepts with scalable hardware and software. This approach guarantees optimized cost-timesolutions.

HELLAs BCMs support our customers in achieving their environmental, cost, functional and quality targets. HELLA has a strong focus on customer satisfaction and service. By following a continuous improvement and quality strategy, we demonstrate our innovation leadership and proven reliability.

ADVANTAGES

- Customized and highly integrated solutions
- Scalable and flexible integration platform
- AUTOSAR compliant software and interfaces
- SPICE, ASIL, ISO 26262 (functional safety) compliant
- BCM-development is embedded in a HELLA competence network within:
 - Lighting systems
 - Car access systems
 - Energy management
 - E/E Architectures design specialists and tools
- Simulation supported development methods
- Global development and production footprint for high volume electronics
- Worldwide presence ensures local customer support

Technical Data

Signal control and distribution for:

- Comfort functions
- Safety functions
- Fuel efficiency and emissions reduction
- Diagnostic functions
- CAN / LIN

Model based SW coding

Combined power and signal distribution/control with integrated relays

SMD assembly, press fit connectors

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