

We set the standard in safety

Light control unit

Monitors ambient lighting levels
inside and outside the vehicle
through separate circuits



Previously known as Forman

To provide the right amount of light when needed, our light control unit can automatically activate or deactivate vehicle headlights and saloon lights when lighting levels inside or outside the vehicle drop below the set threshold. Each circuit has independent settings for the minimum lighting levels required for lighting activation.

Alternatively, if automatic lighting is not desired, an alert can be set to prompt the driver action.

What does our light control unit do?

The Royal Society for Prevention of Accidents reported that 40% of road accidents occur after dark, making it vital that vehicle lighting is used appropriately and promptly when lighting levels drop below the acceptable threshold. Our lighting control unit uses a sensor mounted behind the windscreen, away from interior lighting, to accurately measure the lighting levels outside the vehicle.



Exterior and interior sensors

Two independent sensor circuits monitor and control the activation of headlights and saloon lights.



Configurable lighting levels

Lighting levels can be set according to customer requirements, with a range of lighting thresholds available.



Optional automatic lighting activation

Our lighting control unit can be set to automatically activate exterior and interior lights, or prompt driver action.

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How our light control unit works

Ardent's light control unit uses advanced optical sensors to measure interior and exterior lighting levels, with external and internal channel settings configured independently of each other.

The exterior lighting level sensor is mounted behind the windscreen of the vehicle and the interior lighting level sensor is positioned inside the vehicle, set at a separate light level to the exterior sensor.

If desired, our light control unit can automatically control the vehicle headlights and interior lights when lighting levels fall below the specified threshold. Inputs are provided to enable the driver to override the unit and force the lights off.

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Key technical specification

Connectors	x1 AMP .070 series connectors: 12 way
Power supply	Voltage: 18 V to 30 V (32 V tolerated for one hour) Current: less than 60 mA, protected against reverse polarity and transients
Sensor	x1 Recommended cable: overall screened single pair 18 AWG 16/0.254 mm (RS-774-4035), 10m maximum length Connect screen to GND and VLCU end only
Inputs	x2 (switched contact, low-side switched)
Outputs	x5 (switched contact, low-side switched)
Approvals	E-marking: E11 10R-045586

For the complete technical specification and operating instructions, please get in touch.

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To find out more or to explore how we can help you enhance the safety of your vehicles, contact our sales team on +44 (0) 1423 326 740



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