



Case Study

No job is too tough for the INEOS Grenadier.
With reliable HMIs of the Series 09.

The Grenadier is a dedicated off-road vehicle built for any terrain. Its interior needs to be durable too. *INEOS puts its trust in interior HMIs from EAO.*

The versatile Series 09 universal switch is the best choice for numerous applications and is *unique on the market in its variety of options.*

Company Profile

Customer
INEOS Automotive

Market
Automotive

Application
Safety-relevant applications in vehicle interiors

EAO Series
Series 09



A reliable accessory for INEOS interiors: the Series 09 Universal Switch.

Unbreakable British spirit. British design combined with German engineering: the Grenadier is an uncompromising 4x4 vehicle which has been entirely designed, from scratch, to overcome any obstacle by means of unrivalled offroad capability, endurance, and reliability. Engineered for drivers all around the world who rely on their vehicle as a vital work tool.

Over the last five years, INEOS Automotive has taken an uncompromising approach to engineering, testing, and development. The Grenadier has been on a 1.8-million-kilometre odyssey of testing in multiple stages and almost every environment imaginable: mountains, forests, rivers, seas, mud and sand, minor roads and motorways, wilderness and city streets. This worldwide expedition serves to ensure that the Grenadier can do its job in all test phases, on difficult terrain worldwide, at 50°C or in freezing temperatures. Now INEOS is ready to launch this rugged new off-road vehicle which is built to go the distance.

Onboard to help the Grenadier handle every challenge are the Series 09 Universal Switches from EAO. The ergonomically designed Universal Switch features IP5K4 front protection, to prevent the ingress of dust in harmful quantities as well as splash water from all angles.

This is a must-have in an off-road vehicle. The diagnostic capability facilitated by resistance coding (Namur) and the option of two redundant switching signals make the Universal Switch ideal for safety-related applications. It also means that the Universal Switch configuration which has been individually customised for INEOS can be used for locking differentials, for example: at the

push of a button, wheels rotating at different speeds can be locked so conditions such as snow, ice, slick surfaces, and mud present no difficulty.

Benefits of use

- Customer-specific design and tailored configuration options for an HMI that is genuinely up to the task
- Ergonomic, robust design with IP5K4 to meet the challenges encountered by off-road vehicles
- Ideal for safety-related applications thanks to its diagnostic capability (Namur) and the option of two redundant switching signals

The versatile Series 09 switch is the best choice for many applications and has a range of options that make it one-of-a-kind on the market. The team of experts at EAO Automotive were pivotal to developing and evaluating the ideal HMI solution for the tough, durable INEOS offroad vehicle – we are immensely proud to have contributed to a project as exciting as the Grenadier.

Read more about our Series 09 Universal Switch at www.eao.com/09



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