



Controlling motors via CANopen

High-current CANopen relay for mobile applications

- PWM-controlled H-bridge with high current capability up to 10 A
- Three additional analogue or digital usable inputs
- Can be integrated as CANopen slave
- For 12 and 24 V on-board systems



IP67

E₁

ifm – close to you!

Application areas

The ecomatRelay is an innovative high-current CANopen relay with integrated H-bridge that has been specially developed for the use in mobile machines. This device can be used to control electrical loads such as DC motors in a simple and efficient way - and with just two variables: one for the setpoint and one for the direction of rotation. The PWM-controllable H-bridge outputs enable a current load of up to 10 amperes and therefore offer maximum flexibility and performance.

Versatile expansion options

The ecomatRelay is ideally suited if additional I/O ports are missing or special functions such as PWM-controlled high-current outputs are required. Whether analogue or digital inputs, H-bridges or PWM outputs - the ecomatRelay covers a wide range of requirements.

Simple and efficient control

With support for the CANopen protocol, the ecomatRelay offers uncomplicated integration into control concepts. The variables can be easily mapped so that the set-up is completed quickly. The decentralised extension enables flexible adjustment to specific requirements, whether for new installations or retrofits.

Robustness for mobile applications

The device impresses with an extremely robust design and fulfils protection rating IP67, making it perfectly suited for use in demanding environments. It is vibration-resistant, E1-certified and supports both 12-volt and 24-volt on-board systems, making it ideal for mobile applications. These features ensure reliable operation even under the most difficult conditions.

The ecomatRelay is the perfect choice for users who are looking for a powerful and easy-to-integrate solution to implement motor applications or special I/O requirements in mobile machines.

Technical data CR3025		
Operating voltage	[V]	8...32
Output		1x H-bridge, PWM
Current rating output	[A]	10
Inputs		3x analogue (12 bits)
Current consumption sleep mode	[mA]	6
Interface		CANopen
Ambient temperature	[°C]	-40...85
Protection rating		IP67

BEST FRIENDS



ioControl

Decentralised connection of sensors, freely programmable



ecomatDisplay

Programmable robust HMI for mobile machines



ecomatBasic

Programmable controller for mobile machines



For further technical details, please visit: ifm.com/fs/CR3025