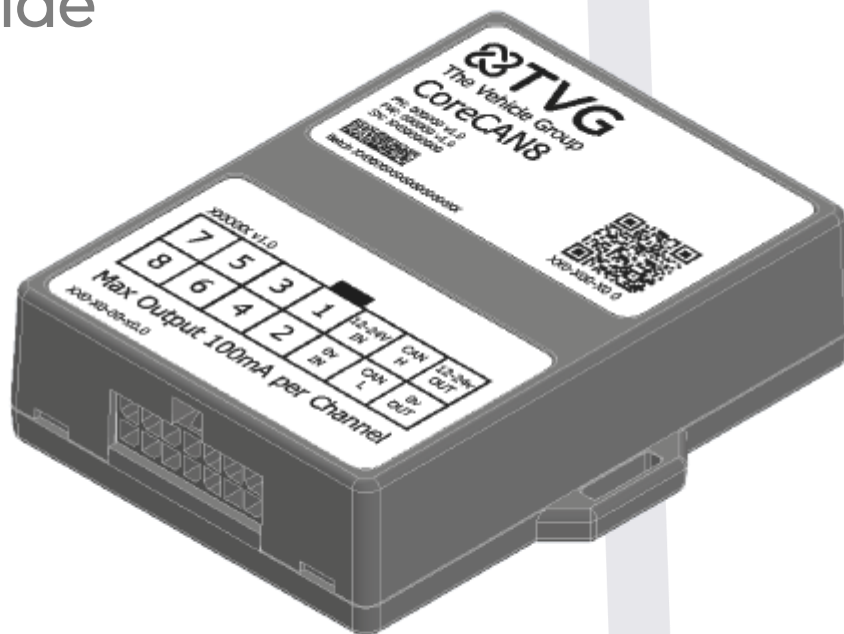


## Product Guide

TVG CoreCAN8

P/N: 303884

Document ID: G0018



**Read guide fully before commencing installation.  
This guide must be present during time of install.  
This guide is to be used in conjunction with training.**

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## Document Change Control

Date	Version	Author	Approval	Changes
18/01/2023	1.0	A. Hodgson		Initial Release

## Kit Contents

303883 - CoreCAN8 ECU x 1

303907 - TVG CoreCAN8 Loom with 10W+2W MMFJ x 1

703409 - Cable Tie Black Nylon 368mm x4.8mm x 1

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## Notices

- Before starting the please read this documentation. The performance of the device is dependent on correct installation.
- Usage of this devices is for industrial use only. It must not be used in situations in which human live is dependant on the operation performance of the device.
- The installation of the device may become in conflict with a countries regulations or the vehicle/equipment OEM instructions. The conformance shall solely be the customers responsibility. Improper device installation may invalidate the vehicle/equipment warranty.
- Vehicle ignition must be off prior to installation of the CoreCAN8.
- Misuse, physical damage and incorrect installation will invalidate the warranty of the CoreCAN8 or systems using the CoreCAN8.
- Device should be installed away from direct heat sources and moisture. Installation inside the vehicle or equipment is essential.
- Do not secure the CoreCAN8 in such a way as they would interfere with the vehicles/equipment control systems. E.g. steering column, brake pedals etc.
- Recommended 3 Amp fuse
- The CoreCAN8 device must be installed by a suitably qualified and experienced professional skilled in automotive and equipment electronics respectively.
- Connecting power supply and ground should be done as per OEM specifications. Once jointing or crimping has been completed, tug test should be carried out to ensure the join does not fail.

## Introduction

The CoreCAN8 is a unit that reads vehicle CAN data and matches that data to pre-programmed values, each value is linked to one of eight outputs, each output is switched on and off to match the CAN data received.

The aim is for the CoreCAN8 is for it to be programmable by the client from a download file and some simple hardware. The CoreCAN8 is fitted with a corner connector which will allow blank CoreCAN8's to be programmed externally via a UART connection from a Windows PC.

### Purpose

The CoreCAN8 interface provides 8 of the most commonly used outputs on vehicles which feature CAN Bus wiring.

### TVG CoreCAN8 Technical data

#### Electrical

Operational voltage	10 – 32 Volts
Idle current 12V	2.2mA
Active Current 12V	16.1mA
Idle current 24v	4.4mA
Active Current 24V	18.1mA
Output amps max per channel	80mA

#### CAN

Number of channels	1
Max Speed	1 Mbps
Max Packet filters	16
Max Buffers	16

## Configuration

The configuration of the device is based solely off of the customers requirements and desires for what pin relates to what output.

### TVG Default



Connector Pin Name	Function Name	Description	Connector Pin No
7	Rev	Reverse	14
5	Ind.Left	Indicator Left	13
3	Ind.Right	Indicator Right	12
1	M. Beam	Main Beam	11
8	Ign	Ignition	7
6	D. Beam	Dipped Beam	6
4	Brake LT.	Brake Light	5
2	Side LT.	Side Light	4
CAN H	CAN High	-	9
CAN L	CAN Low	-	2
12-24v IN	DC IN 9-24v	-	10
0v IN	DC IN 0v/GND	-	3
12-24v OUT	DC OUT 9-24v	-	8
0v OUT	DC OUT 0v/GND	-	1



## About Us

The Vehicle Group (TVG) is Europe's leading manufacturer of high quality safety and security systems for commercial vehicles. Today you will find our technology utilised by leading fleet operators such as Waitrose, Travis Perkins and Next Plc to name a few. We are proud of our market leading British engineered and manufactured CCTV solution Oculux®, which is now used Worldwide in countries such as the USA, Canada, South Africa and the Netherlands.

Our facility in Colburn, North Yorkshire is home to our design, manufacturing, engineering, and service centre. Here we employ circa 100 employees.

## Useful Contacts:

### Sales and Account Management Team

Telephone: 03450 60 50 40 opt. 1

Email: [sales@tvg.uk](mailto:sales@tvg.uk)

### Technical Support

Telephone: 03450 60 50 40 opt. 2

Web: <https://support.tvg.uk/>

Email: [support@tvg.uk](mailto:support@tvg.uk)

### Service and Installation Centre

Telephone: 03450 60 50 40 opt. 3

Email: [service@tvg.uk](mailto:service@tvg.uk)

1 Target  
Chartermark Way  
Colburn  
North Yorkshire  
DL9 4QJ  
Tel: +44 (0) 3450 60 50 40  
Email: [info@tvg.uk](mailto:info@tvg.uk)

Web: <https://www.thevehiclegroup.com>