

# Preparing a C0001401B for TwinSAFE Project

Overcoming an issue with the DS402 protocol on the AMI8121-3100-0F21 motor

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## Problem


The specification of the GY and GZ motors on A2032 and A2033 included a TwinSAFE system, which makes it difficult to operate within a non-TwinSAFE environment.

Beckhoff have a solution to this, which is to use the TwinSAFE logic controller contained inside the AMI motor / drive to control its own STO "always on"

### However

There is a problem with the particular spec of the AMI8121-3100-0F21 - the 2 denotes a DS402 communication interface profile. This profile needs a firmware update to enable the TwinSAFE communication.

## Solution

 ...The safety project defined in the following steps is saved on the Software Updates board. The following steps are for reference and for recreating this project - IT DOES NOT NEED TO BE DONE EVERY TIME

The solution takes the following steps:

- Ensure the TwinCAT environment is up to date
- Ensure the latest ESI (device description tables) are downloaded
- Ensure the latest Drive Manager 2 Installed

## Update EEPROM Driver

- Device
- Online Tab
- Right click on the AMI->Write EEPROM
- Pick AMI8000-0100-0018
  
- Allow download
- PowerCycle the AMI Motor
- Enter Config mode
- Scan boxes ->Device Manager may need motors replacing with the new type to make the configuration identical
- Activate configuration