M201EA Module in Unsupervised Mode
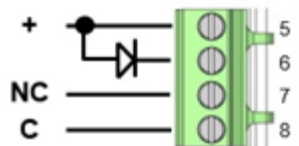
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Bulletin Applicability

This bulletin applies to the output modules M201EA, M701E, TC810E1032A, and MI-DCMOE released since April 2021.

The Issue

The issue may occur when more than 5-6 output modules in unsupervised mode are installed on the same loop. Setting the unsupervised mode, the connection from loop positive (terminal 5) to terminal 6 charges a capacitor added as a protection. That causes a distortion in the line that progressively reduce the PW width with the number of added modules. That should mainly affect CLIP, because the answers in AP are digital not analogue, but that is related to how the panel reads the digital answer.

Fixes / Workarounds

The fix is to connect terminal 5 to terminal 6 through a diode with reverse voltage greater than the maximum loop voltage, for example type IN4006, instead of a direct connection, as shown in figure below.

Product Amendment

A suitable diode will be added FOC in the package.

Document Amendment

User manual will be updated.

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