



Errata

NANL-B500G-RE

Hilscher Gesellschaft für Systemautomation mbH

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1 Introduction

1.1 About this document

This document lists known issues for the netANALYZER device NANL-B500G-RE and gives solutions and workarounds if available.

1.2 List of revisions

Rev	Date	Section	Revision
1	2021-09-21	all	Document created.

Table 1: List of revisions

2 Errata

2.1 Signal cross-coupling between digital inputs

Issue / Description of symptom

Signal cross-coupling between digital inputs may cause digital inputs to detect a signal edge at one digital input, although the signal is applied to another digital input.

Especially steep signal edges with a high du/dt , i.e. input signals with a short rising and falling time, increase this effect. Furthermore, the sensitivity for steep signal edges varies from device to device because the inputs have no Schmitt-Trigger properties and the real logic thresholds (high-low change and low-high change) depend on the manufacturing tolerances of the installed ICs. For this reason, it is not possible to define a general worst case value for edge steepness.

Solution / workaround

Recommendation: Use only one digital input for measuring

If, for measuring, several inputs are to be used at the same time, keep the edge steepness as low as possible and perform a test measurement to exclude signal cross-coupling in this particular scenario. You can reduce the error effect by decreasing the edge steepness of the input signals using series resistors. However, this may delay the detection of the signal edge.

3 Appendix

3.1 Contacts

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