Table of contents

1 Introduction.............................................................................................................................................3
  1.1 About this document ......................................................................................................................3
  1.2 List of revisions ..............................................................................................................................3

2 Errata .......................................................................................................................................................4
  2.1 Signal cross-coupling between digital inputs .................................................................................4

3 Appendix .................................................................................................................................................5
  3.1 Contacts .........................................................................................................................................5
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

<table>
<thead>
<tr>
<th>Rev</th>
<th>Date</th>
<th>Section</th>
<th>Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2021-09-21</td>
<td>all</td>
<td>Document created.</td>
</tr>
</tbody>
</table>

*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.
Appendix

3 Appendix

3.1 Contacts

Headquarters

Germany
Hilscher Gesellschaft für Systemautomation mbH
Rheinstrasse 15
65795 Hattersheim
Phone: +49 (0) 6190 9907-0
Fax: +49 (0) 6190 9907-50
E-Mail: info@hilscher.com
Support
Phone: +49 (0) 6190 9907-99
E-Mail: de.support@hilscher.com

Subsidiaries

China
Hilscher Systemautomation (Shanghai) Co. Ltd.
200010 Shanghai
Phone: +86 (0) 21-6355-5161
E-Mail: info@hilscher.cn
Support
Phone: +86 (0) 21-6355-5161
E-Mail: cn.support@hilscher.com

France
Hilscher France S.a.r.l.
69800 Saint Priest
Phone: +33 (0) 4 72 37 98 40
E-Mail: info@hilscher.fr
Support
Phone: +33 (0) 4 72 37 98 40
E-Mail: fr.support@hilscher.com

India
Hilscher India Pvt. Ltd.
Pune, Delhi, Mumbai
Phone: +91 8888 750 777
E-Mail: info@hilscher.in

Italy
Hilscher Italia S.r.l.
20090 Vimodrone (MI)
Phone: +39 02 25007068
E-Mail: info@hilscher.it
Support
Phone: +39 02 25007068
E-Mail: it.support@hilscher.com

Japan
Hilscher Japan KK
Tokyo, 160-0022
Phone: +81 (0) 3-5362-0521
E-Mail: info@hilscher.jp
Support
Phone: +81 (0) 3-5362-0521
E-Mail: jp.support@hilscher.com

Korea
Hilscher Korea Inc.
Seongnam, Gyeonggi, 463-400
Phone: +82 (0) 31-789-3715
E-Mail: info@hilscher.kr

Switzerland
Hilscher Swiss GmbH
4500 Solothurn
Phone: +41 (0) 32 623 6633
E-Mail: info@hilscher.ch
Support
Phone: +49 (0) 6190 9907-99
E-Mail: ch.support@hilscher.com

USA
Hilscher North America, Inc.
Lisle, IL 60532
Phone: +1 630-505-5301
E-Mail: info@hilscher.us
Support
Phone: +1 630-505-5301
E-Mail: us.support@hilscher.com