PRODUCT NEWS

OMRON

Catalog Correction Notice

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Manual

No. 2015008DE

The mistake of the print and the description is found in the manual that our company issued. It apologizes.

[Name of manual]
 " NX-Series Safety Control Unit User's Manual" < Publication in April, 2015 >
 < Manual number Z930-E1-06>

[Page of publishing]
 Page 4-2 " 4-1-2 Calculating Safety Reaction Times " Safety sensor/switch response time
 Page 4-2 " 4-1-2 Calculating Safety Reaction Times " Safety I/O refresh time

[Correction method]
 We revise the manual.

[Content of correction]
 To modify the following value and the calculation, please verify all safety chains.
 ・The safety sensor/switch response time when an Omron Special Safety Input Devices is connected to a Safety Input Unit.
 ・The calculation of the Safety I/O refresh time.

Correction of the Safety sensor/switch response time

<table>
<tr><td rowspan="2">Before</td><td>Time element</td><td>Description</td></tr>
<tr><td>Safety Sensor/switch Response time</td><td>This is the response time that is required for a safety sensor or switch, such as a light curtain, to turn OFF. The value is defined for each sensor or switch.
The following values apply when an OMRON Special Safety Input Device is connected to a
Safety Input Unit.
    E3ZS/E3FS Single-beam Safety Sensors: <u>10 ms</u>
    D40A Non-contact Door Switches: 6 ms + 0.4 ms x No. of linked Switches
    D40Z Non-contact Door Switches: <u>18 ms</u>
    UM Safety Mats: <u>10 ms</u>
    SGE Safety Edges: <u>10 ms</u></td></tr>
<tr><td rowspan="2">After</td><td>Time element</td><td>Description</td></tr>
<tr><td>Safety Sensor/switch Response time</td><td>This is the response time that is required for a safety sensor or switch, such as a light curtain, to turn OFF. The value is defined for each sensor or switch.
The following values apply when an OMRON Special Safety Input Device is connected to a
Safety Input Unit.
    E3ZS/E3FS Single-beam Safety Sensors: <u>14ms</u>
    D40A Non-contact Door Switches: 6 ms + 0.4 ms x No. of linked Switches
    D40Z Non-contact Door Switches: <u>29ms</u>
    UM Safety Mats: <u>24ms</u>
    SGE Safety Edges: <u>24ms</u></td></tr>
</table>

Correction of the Safety I/O Refresh Time

	Time element	Description
Before	Safety I/O refresh time	Calculate the sum of the following configuration elements. This is the time from when the safety input terminal changes until the change goes through the Safety CPU Unit and the safety output terminal turns OFF. Calculation: Find the sum of the following configuration elements. Safety I/O refresh time = Input delay time + Safety input refresh time + Safety output refresh time ・ The input delay time is the input OFF delay time that is set for the safety input terminal on the Safety Input Unit. ・ The safety input refresh time is the value of the FSoE watchdog timer between the Safety CPU Unit and Safety Input Unit. ・ The safety output refresh time is the value of the FSoE watchdog timer between the Safety CPU Unit and Safety Output Unit

	Time element	Description
After	Safety I/O refresh time	Calculate the sum of the following configuration elements. This is the time from when the safety input terminal changes until the change goes through the Safety CPU Unit and the safety output terminal turns OFF. Calculation: Find the sum of the following configuration elements. Safety I/O refresh time = Input delay time + Safety input refresh time + Safety output refresh time ・ The input delay time is the input OFF delay time that is set for the safety input terminal on the Safety Input Unit. ・ The safety input refresh time is the value of the FSoE watchdog timer between the Safety CPU Unit and Safety Input Unit plus the Safety Input Unit's processing time. The processing times of the Safety Input Units are as follows: NX-SIH400: 9 ms NX-SID800: 5 ms ・ The safety output refresh time is the value of the FSoE watchdog timer between the Safety CPU Unit and Safety Output Unit plus the Safety Output Unit's processing time. The processing times of the Safety Output Units are as follows: NX-SOH200: 1 ms NX-SOD400: 1 ms

Please contact us if you need any further assistance or information.

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