

G9SP Series Safety Controller Operation Manual Correction Notice

August 24, 2015

Affected Products:

G9SP Programmable Safety Controllers: G9SP-N10S, G9SP-N20S, G9SP-N10D

Affected Manual(s):

All G9SP Series Safety Controller Operation Manuals prior to <u>G9SP Series Safety Controller Operation</u> <u>Manual Z922-E1-05</u>.

Affected Page / Section:

Page 54 / 3-2-2 Local Input and Local Output Reaction Times - Reaction Time Formula

Action Required:

The following values and calculations have been modified; please verify all safety information relevant to:

• Reaction time related to OMRON Safety Sensors/Switches.

Updated Manual:

G9SP Series Safety Controller Operation Manual

Z922-E1-05.pdf



Appendix

Manual Corrections:

Correction of the OMRON Safety sensor/switch response time.

| ty sensor/switch reac nes are connected din | tion times are given below for when the ectly to the G9SP-series Controller. | e following OMRON Safety Sensors |
|--|--|---|
| ted device 3FS Single-beam Sensors | Safety Sensor/Switch reaction time 2ms+(Cycle Time×3)ms 2ms+(Cycle Time×2)ms | Cycle Time Cycle Time = 4ms 5ms ≤ Cycle Time≤ 9ms |
| on-contact Switch | 2ms+(Cycle Time×1)ms 6 ms + 0.4 ms × Number of connected Switches | <u>10ms ≤ Cycle Time</u> - |
| D40Z Non-contact Switch | <u>31ms</u> (Cycle Time×3)ms | $\frac{\text{Cycle Time} \le 10\text{ms}}{11\text{ms} \le \text{Cycle Time}}$ |
| UM Safety Mat | (Cycle Time×3)ms | Cycle Time =4ms |
| | (Cycle Time×2)ms | <u>5ms ≤ Cycle Time≤ 8ms</u> |
| | (Cycle Time×1)ms | <u>9ms ≤ Cycle Time</u> |
| | Sensors on-contact Switch on-contact Switch ety Mat | Sensors 2ms+(Cycle Time×2)ms 2ms+(Cycle Time×1)ms on-contact Switch 6 ms + 0.4 ms × Number of connected Switches on-contact Switch 31ms (Cycle Time×3)ms ety Mat (Cycle Time×3)ms (Cycle Time×2)ms (Cycle Time×1)ms |