

52100

Planar4 Time Delay Element

CONTROLLED ENGINEERING COPY

Confirm the installed hardware revision and documented delay function, preserve the safety logic arrangement, then proof-test timing and final trip behavior before restoring the protected process.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	52100
Manufacturer part	52100
Hardware type	Time delay element
System family	HIMA Planar4 Safety System



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01 PRE-INSTALLATION PLAN

- 1

Verify the complete 52100 marking and hardware revision before removal.
- 2

Place the protected plant and Planar4 logic in the approved maintenance state.
- 3

Record the as-found delay setting, slot and connected safety function.
- 4

Isolate the rack and field energy required by the Planar4 maintenance procedure.
- 5

Use ESD controls and inspect rack contacts before inserting the module.

MATCHED HARDWARE

- Planar4 19-inch rack
- approved Planar4 logic modules
- safety application wiring
- proof-test and maintenance records

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	52100 / 52100 recorded
Physical interface	Planar4 19-inch rack
Companion check	approved Planar4 logic modules
Functional proof	Provides one configurable time-delay function in a Planar4 logic system
Application test	Delayed shutdown command logic

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Module function	Time delay element
Time functions	1
Safety capability	SIL 3
Redundant application	1oo2 or 2oo3 for SIL 4 applications
Hardware revision	20
System architecture	Planar4
Rack format	19 inch
Rack capacity	21 slots

SYSTEM CONNECTION RECORD

CONNECTION ITEM	DOCUMENTED ASSIGNMENT
Installed host / carrier	Planar4 19-inch rack
Companion hardware	approved Planar4 logic modules
Field connection	safety application wiring
Primary system function	Provides one configurable time-delay function in a Planar4 logic system
Controlled acceptance duty	Delayed shutdown command logic

FIELD NOTE

Confirm the installed hardware revision and documented delay function, preserve the safety logic arrangement, then proof-test timing and final trip behavior before restoring the protected process.

03 COMMISSIONING WORKFLOW



COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	52100 / 52100 recorded
Physical interface	Planar4 19-inch rack
Companion check	approved Planar4 logic modules
Functional proof	Provides one configurable time-delay function in a Planar4 logic system
Application test	Delayed shutdown command logic

04 RETURN-TO-SERVICE RECORD

- ☐ Restore only the approved timing configuration for the assigned safety function.
- ☐ Measure the actual operate and reset timing during the proof test.
- ☐ Document the final trip path and authorization before returning service.
- ☐ Confirm the intended process response before normal operation.

VERIFICATION RECORD

TECHNICIAN

DATE

CABINET / POSITION

FINAL DIAGNOSTIC STATE

FUNCTIONAL ACCEPTANCE CHECKLIST

- ☐ Confirm 52100 remains assigned to the documented HIMA Planar4 Safety System position.
- ☐ Verify the connection to Planar4 19-inch rack and approved Planar4 logic modules.
- ☐ Exercise the intended function: provides one configurable time-delay function in a planar4 logic system.
- ☐ Retain the diagnostic and functional-test result for delayed shutdown command logic.

SOURCE IDENTIFIERS

Planar4 Safety Module Certificate and Hardware Revision List

60232 / 61526

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