52100

Planar4 Time Delay Element

HIMA 52100 is a Planar4 safety-related time delay element. It applies a defined timing function inside Planar4 shutdown and protection logic.

PRODUCT SNAPSHOT

BRAND	FAMILY
HIMA	HIMA Planar4 Safety System
PART	HS CODE
52100	8537101190

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PRODUCT OVERVIEW

HIMA 52100 is a Planar4 safety-related time delay element. It applies a defined timing function inside Planar4 shutdown and protection logic.

1. Provides one configurable time-delay function in a Planar4 logic system
2. Implements safety-related timing within the approved module architecture
3. Can participate in redundant 1oo2 or 2oo3 arrangements
4. Fits the established 19-inch Planar4 rack platform

SYSTEM COMPONENTS

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

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
H7506	HIMA bus terminal	**Open product page**
K7214	HIMA 24 Vdc current distribution	**Open product page**
52100	Planar4 time delay element	**Open product page**

TECHNICAL DATA

PARAMETER	VALUE
Module function	Time delay element
Time functions	1
Safety capability	SIL 3
Redundant application	1oo2 or 2oo3 for SIL 4 applications

PARAMETER	VALUE
Hardware revision	20
System architecture	Planar4
Rack format	19 inch
Rack capacity	21 slots

SYSTEM CONNECTION AND ACCEPTANCE RECORD

RECORD 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

TECHNICAL 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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Delayed shutdown command logic

Provides one configurable time-delay function in a Planar4 logic system

Timed process permissive sequence

Implements safety-related timing within the approved module architecture

Redundant safety timing channel

Can participate in redundant 1oo2 or 2oo3 arrangements

Planar4 legacy safety-system maintenance

Fits the established 19-inch Planar4 rack platform

PRODUCT PRECAUTIONS

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.
6. Restore only the approved timing configuration for the assigned safety function.
7. Measure the actual operate and reset timing during the proof test.
8. Document the final trip path and authorization before returning service.

ENGINEER FAQ

Q1 Does 52100 match Planar4 19-inch rack in a Delayed shutdown command logic installation?

Verify the complete 52100 marking, the documented HIMA Planar4 Safety System position and the installed Planar4 19-inch rack before fitting the assembly.

Q2 How should 52100 be wired when it must provides one configurable time-delay function in a planar4 logic system?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 52100; then continuity-test the affected path.

Q3 Which HIMA Planar4 Safety System records should be captured before removing 52100?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 52100 before disconnection.

Q4 What controlled test confirms that 52100 can implements safety-related timing within the approved module architecture?

Apply the approved field or simulated stimulus, observe the HIMA Planar4 Safety System indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which approved Planar4 logic modules condition should be checked when 52100 reports an abnormal state?

Check the approved Planar4 logic modules supply, seating and connection first, then compare channel diagnostics with the recorded 52100 baseline.

Q6 Can 52100 be moved directly into Timed process permissive sequence without validating proof-test and maintenance records?

No. Confirm the proof-test and maintenance records, revision, connection scheme and HIMA Planar4 Safety System configuration before transferring 52100 to that duty.

Q7 What maintenance evidence is required after 52100 is used for Redundant safety timing channel?

Retain the nameplate record, corrective action, final diagnostics and a controlled redundant safety timing channel functional-test result for 52100.

Q8 How should 52100 be returned to service in Planar4 legacy safety-system maintenance?

Restore power under control, verify can participate in redundant 1oo2 or 2oo3 arrangements, exercise the intended signal path and release 52100 only after the HIMA Planar4 Safety System remains in its approved operating state.

SOURCE Planar4 Safety Module Certificate and Hardware Revision List | 60232 / 61526

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