10100/2/1

Horizontal Bus Driver

CONTROLLED ENGINEERING COPY

The cable execution changes both redundancy topology and current demand. Preserve the approved A1, A21 or A22 selection and rack address.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	10100/2/1
Manufacturer part	10100/2/1
Hardware type	Horizontal bus driver
System family	Fail Safe Controller

1 PLAN — 2 ISOLATE — 3 CONNECT — 4 CONFIGURE — 5 TEST

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01 PRE-INSTALLATION PLAN

1. Confirm 10100/2/1 and the installed rack address.
2. Identify whether the installation uses A1, A21 or A22.
3. Record the vertical bus and horizontal bus routing.
4. Isolate rack power before disturbing the flat cable.
5. Protect DIN 41612 contacts from ESD and mechanical damage.

MATCHED HARDWARE

- FSC Central Part vertical bus
- A1, A21 or A22 flat cable
- I/O rack horizontal bus
- Rack-address jumper module

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	10100/2/1 / 10100/2/1 recorded
Physical interface	FSC Central Part vertical bus
Companion check	A1, A21 or A22 flat cable
Functional proof	Transfers the vertical FSC bus into an I/O rack horizontal bus.
Application test	Non-redundant FSC I/O rack

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Module function	Horizontal bus driver
Type number	10900
Rack space	4 HP; 3U
Approvals	CE; TUV; UL
Minimum software	3.00
A1 cable duty	Non-redundant I/O
A21 cable duty	Redundant I/O; one rack per HBD
A22 cable duty	Redundant I/O; two racks per HBD
A1/A21 power	5 Vdc; 35 mA
A22 power	5 Vdc; 65 mA
Ripple	Less than 50 mV p-p

FIELD NOTE

The cable execution changes both redundancy topology and current demand. Preserve the approved A1, A21 or A22 selection and rack address.

03 COMMISSIONING WORKFLOW

1. Confirm 10100/2/1 and part number 10100/2/1 against the installed record.
2. Verify the physical connection to FSC Central Part vertical bus.
3. Apply the documented technical values for module function.
4. Exercise the function: transfers the vertical fsc bus into an i/o rack horizontal bus..
5. Run a controlled test for non-redundant fsc i/o rack.
6. Record the final state, diagnostics and operator acceptance before release.

COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	10100/2/1 / 10100/2/1 recorded
Physical interface	FSC Central Part vertical bus
Companion check	A1, A21 or A22 flat cable
Functional proof	Transfers the vertical FSC bus into an I/O rack horizontal bus.
Application test	Non-redundant FSC I/O rack

04 RETURN-TO-SERVICE RECORD

- [ ] Restore the documented address-selection jumper pattern.
- [ ] Verify horizontal-bus communication for every served rack.
- [ ] Retain the final rack and redundancy acceptance record.
- [ ] Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	10100/2/1
INSTALLED POSITION	Documented Fail Safe Controller position
VERIFICATION METHOD	Controlled inspection and functional test
RELEASE RECORD	Final diagnostic state retained before service

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Honeywell 10002/1/2	FSC control and I/O system module	View Honeywell 10002/1/2 page
Honeywell 10005/1/1	FSC system module	View Honeywell 10005/1/1 page
Honeywell 10012/1/2	FSC system interface module	View Honeywell 10012/1/2 page
Honeywell 10014/F/F	FSC serial communication module	View Honeywell 10014/F/F page
Honeywell 10311/2/1	FSC dual key-switch assembly	View Honeywell 10311/2/1 page
Honeywell 10020/1/2	FSC quad processor module	View Honeywell 10020/1/2 page
Honeywell 10006/2/1	FSC diagnostic battery module	View Honeywell 10006/2/1 page
Honeywell 10014/H/F	FSC communication module	View Honeywell 10014/H/F page

SOURCE IDENTIFIERS

Honeywell FSC Hardware Manual

10100/2/1 data sheet Version 2.3

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