10101/2/1

Digital Input Module

CONTROLLED ENGINEERING COPY

Direct use of the external 24 Vdc output pins without an FTA requires the manufacturer-specified 500 mA fuse. Preserve internal and external supply assignments.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	10101/2/1
Manufacturer part	10101/2/1
Hardware type	16
System family	Fail Safe Controller

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

APTER POWER SALES TEAM

WHATSAPP / PHONE	+86 180 3023 5313
EMAIL	sales13@apterpower.com
WEBSITE	www.apterpower.com

01 PRE-INSTALLATION PLAN

1. Confirm the complete 10101/2/1 identity and 16-channel map.
2. Record internal and external 24 Vdc supply assignments.
3. Place the safety function in its approved maintenance state.
4. Use the documented 500 mA fuse when external output pins are used without an FTA.
5. Preserve input polarity, return and FTA terminal identity.

MATCHED HARDWARE

- FSC I/O rack
- 24 Vdc internal supply
- 24 Vdc external field supply
- Approved FTA or fused direct wiring

INSTALLATION CONTROL RECORD

CONTROL ITEM	REQUIRED RECORD
Identity	10101/2/1 / 10101/2/1 recorded
Physical interface	FSC I/O rack
Companion check	24 Vdc internal supply
Functional proof	Acquires sixteen 24 Vdc safety-related field states.
Application test	Emergency shutdown inputs

02 WIRING & INTERFACE CHECKS

CHECK ITEM	REQUIRED VALUE
Input channels	16
Nominal input	24 Vdc
Safety behavior	Fail-to-safe input stage
HIGH state	Above 15 Vdc
LOW state	Below 9 Vdc; below 2 mA
Typical input current	7 mA at 24 Vdc
Maximum input	36 Vdc
Typical delay	10 ms
Rack space	4 HP; 3U
Approvals	CE; TUV; UL; FM
Minimum software	3.00
5 Vdc demand	8 mA
24 Vdc internal demand	110 mA
24 Vdc external demand	110 mA

FIELD NOTE

Direct use of the external 24 Vdc output pins without an FTA requires the manufacturer-specified 500 mA fuse. Preserve internal and external supply assignments.

03 COMMISSIONING WORKFLOW

1. Confirm 10101/2/1 and part number 10101/2/1 against the installed record.
2. Verify the physical connection to FSC I/O rack.
3. Apply the documented technical values for input channels.
4. Exercise the function: acquires sixteen 24 vdc safety-related field states..
5. Run a controlled test for emergency shutdown inputs.
6. Record the final state, diagnostics and operator acceptance before release.

COMMISSIONING ACCEPTANCE EVIDENCE

EVIDENCE ITEM	ACCEPTANCE CONDITION
Identity	10101/2/1 / 10101/2/1 recorded
Physical interface	FSC I/O rack
Companion check	24 Vdc internal supply
Functional proof	Acquires sixteen 24 Vdc safety-related field states.
Application test	Emergency shutdown inputs

04 RETURN-TO-SERVICE RECORD

- [ ] Check every channel against the documented HIGH and LOW thresholds.
- [ ] Review module self-test and system diagnostics after energization.
- [ ] Retain the witnessed safety-function acceptance record.
- [ ] Confirm the intended process response before normal operation.

VERIFICATION RECORD

PRODUCT IDENTITY	10101/2/1
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

10101/2/1 data sheet Version 2.5

APTER POWER SALES TEAM

WHATSAPP / PHONE	+86 180 3023 5313
EMAIL	sales13@apterpower.com
WEBSITE	www.apterpower.com