10100/2/1

Horizontal Bus Driver

Honeywell 10100/2/1 is the FSC horizontal bus driver that links the vertical bus from the Central Part to an I/O rack horizontal bus.

PRODUCT SNAPSHOT

BRAND Honeywell	FAMILY Fail Safe Controller
PART 10100/2/1	PRODUCT TYPE Horizontal Bus Driver

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PRODUCT OVERVIEW

Honeywell 10100/2/1 is the FSC horizontal bus driver that links the vertical bus from the Central Part to an I/O rack horizontal bus.

1. Transfers the vertical FSC bus into an I/O rack horizontal bus.
2. Supports non-redundant I/O through the A1 flat cable.
3. Supports redundant one-rack I/O through the A21 flat cable.
4. Supports redundant two-rack I/O through the A22 flat cable.

SYSTEM COMPONENTS

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

TECHNICAL NOTE

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

TECHNICAL DATA

PARAMETER	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

PARAMETER	VALUE
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

ENGINEERING NOTE

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

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**

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Non-redundant FSC I/O rack

Transfers the vertical FSC bus into an I/O rack horizontal bus.

Redundant single-rack I/O

Supports non-redundant I/O through the A1 flat cable.

Redundant dual-rack I/O

Supports redundant one-rack I/O through the A21 flat cable.

FSC rack address distribution

Supports redundant two-rack I/O through the A22 flat cable.

PRODUCT PRECAUTIONS

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.
6. Restore the documented address-selection jumper pattern.
7. Verify horizontal-bus communication for every served rack.
8. Retain the final rack and redundancy acceptance record.

ENGINEER FAQ

Q1 What system function does Honeywell 10100/2/1 perform?

It is the FSC horizontal bus driver between the Central Part vertical bus and an I/O rack horizontal bus.

Q2 Which cable makes Honeywell 10100/2/1 a non-redundant HBD?

The A1 flat cable is specified for non-redundant I/O.

Q3 How is Honeywell 10100/2/1 used with one redundant I/O rack?

Use the A21 flat cable for one rack per HBD.

Q4 How is Honeywell 10100/2/1 used with two redundant I/O racks?

Use the A22 flat cable for two racks per HBD.

Q5 What supply demand applies to Honeywell 10100/2/1 with A22?

The data sheet specifies 5 Vdc at 65 mA.

Q6 How is the rack address associated with Honeywell 10100/2/1 selected?

RA0 through RA3 jumpers on the documented rack-address module set the HBD address.

Q7 What physical format is documented for Honeywell 10100/2/1?

The module requires 4 HP by 3U and uses a DIN 41612 type-F rack connector.

Q8 What proves Honeywell 10100/2/1 service after replacement?

Verify the selected cable topology, rack address and communication to every served I/O rack.

SOURCE Honeywell FSC Hardware Manual | 10100/2/1 data sheet Version 2.3

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