



10001/1/1 & 10001/R/1 Vertical bus driver (VBD)

Description

The Central Part (CP) of the FSC system is connected to the I/O level via the vertical bus driver (VBD) modules, which are located in the Central Part rack. A maximum of 14 vertical bus drivers can be installed per Central Part. Each vertical bus driver can support up to 10 horizontal bus driver (HBD) modules.

The maximum distance between a vertical bus driver and any I/O rack on the vertical bus is 5 m (16.4 ft).

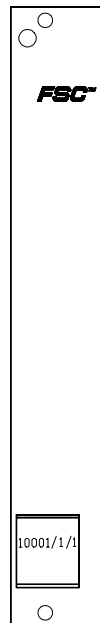


Figure 1

Front view (10001/1/1)

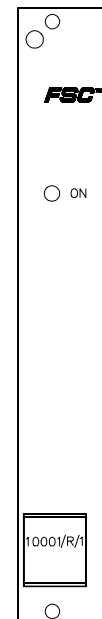


Figure 2

Front view (10001/R/1)

The 10001/1/1 and 10001/R/1 modules consist of two parts (see Figure 3):

- electronic part (mainboard), and
- wiring part (10001/A/1).

The bolts on the 96-pin connector are used to secure the 10001/A/1 part of the VBD to the 19-inch rack. This allows exchange of the electronic part of the VBD without disconnecting the vertical bus flatcable.

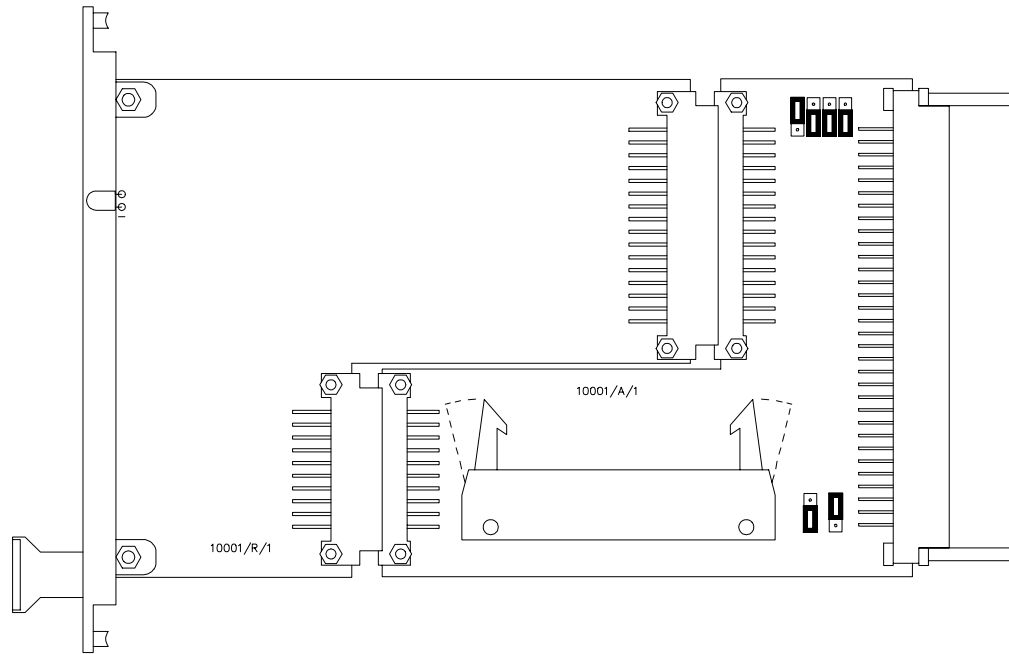


Figure 3 Layout of 10001/R/1 module

Jumpers

Jumpers J1 to J4 on the wiring part (10001/A/1) are used to set the VBD number (see Figure 4).

Jumpers J5 and J6 on the wiring part (10001/A/1) are used to set the Central Part (CP) number (see Figure 4).

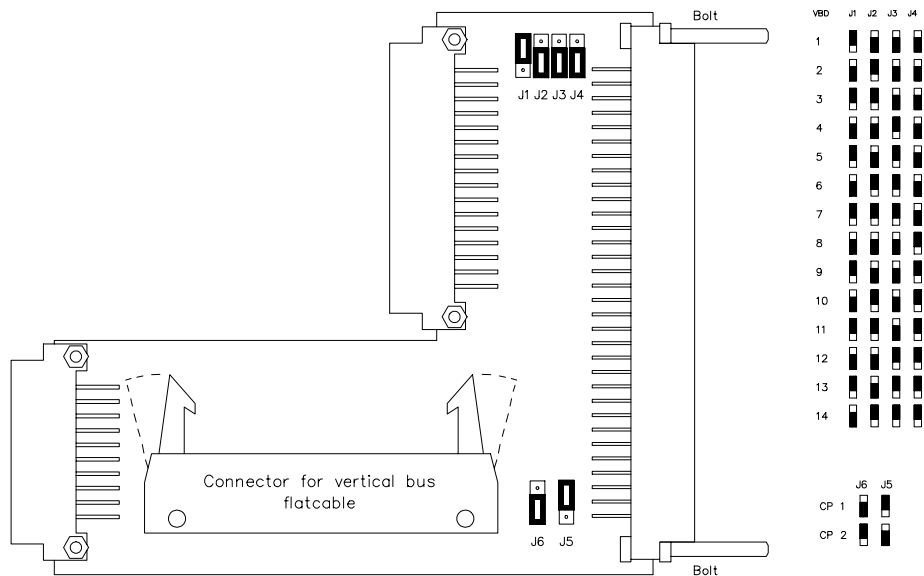


Figure 4 Jumper setting on 10001/A/1 module for CP 1, VBD 1



Applications

Table 1 below shows which vertical bus drivers can be used in the various configurations.

Table 1 Application of 10001/1/1 & 10001/R/1 VBDs

	Non-redundant CP	Redundant CP
Non-redundant I/O	10001/1/1 or 10001/R/1	10001/R/1
Redundant I/O	10001/1/1 or 10001/R/1	10001/1/1 or 10001/R/1

Configurations with redundant Central Parts and non-redundant I/O require 10001/R/1 VBDs, because the relay on the 10001/R/1 disconnects the VBD from the vertical bus in case of a Central Part shutdown (via an on-board watchdog on the VBD or via software).

Vertical bus

The vertical bus flatcable connects the vertical bus drivers (VBDs, 10001/1/1 or 10001/R/1) to the horizontal bus drivers (HBDs, 10100/1/1 or 10100/2/1). For details on vertical buses refer to the 'V-Buses' data sheet.



Technical data

The 10001/1/1 & 10001/R/1 modules have the following specifications:

General	Type number:	10001/1/1
	Approvals:	CE, TÜV, UL
	Software versions:	all
	Space requirements:	4 TE, 3 HE (= 4 HP, 3U)
Power	Power requirements:	5 Vdc 225 mA
	Ripple content:	< 50 mV p-p
General	Type number:	10001/R/1
	Approvals:	CE, TÜV, UL
	Software versions:	all
	Space requirements:	4 TE, 3 HE (= 4 HP, 3U)
Power	Power requirements:	5 Vdc 275 mA
	Ripple content:	< 50 mV p-p

Note:

Do not remove or replace these modules while the power to their Central Part is on.

While this information is presented in good faith and believed to be accurate, Honeywell Safety Management Systems B.V. disclaims the implied warranties of merchantability and fitness for a particular purpose and makes no express warranties except as may be stated in its written agreement with and for its customer. In no event is Honeywell Safety Management Systems B.V. liable to anyone for any indirect, special or consequential damages. The information and specifications in this document are subject to change without notice.