General Specifications

F3LD01-0N DeviceNet Scanner Module

FA-M3

GS 34M06H28-01E

General

The F3LD01-0N DeviceNet Scanner Module is an interface module that connects an FA-M3 system to DeviceNet*. The module supports the DeviceNet's master function and controls a wide variety of field devices in a multi-vendor environment, from sensors and actuators to sophisticated devices.

- It can control a maximum of 16,000 points (1000 words) of I/O data.
- It is provided with a message communications function.
 - *: DeviceNet is a registered trademark of Open DeviceNet Vendor Association, Inc. (ODVA). The copyright to the software installed on this module is held by S-S Technologies Inc. (SST).

Functions

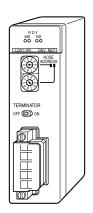
DeviceNet Support Functions

DeviceNet Function							
Device type: Communications adapter		Master/scanner					
Explicit peer-to-peer message	Υ	I/O slave message					
I/O peer-to-peer message	Z	·Bit Strobe	Υ				
Configuration consistency value	Ζ	·Polling	Υ				
Fault node recovery	Ζ	·Cyclic	Ν				
Baud rate: 125, 250, 500 Kbps		·Change of State (COS)	Ν				

Specifications

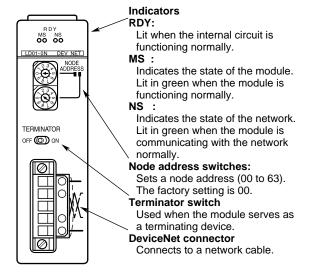
Item	Specification					
Interface	Conforms to DeviceNet.					
Transmission speed	125, 250 or 500 Kbps (switch selectable)					
Transmission media	5 dedicated lines (2 signal, 1 shielded and 2 power lines)					
Transmission	Trans- mission	Maximum trunk line cable length		Branch line length		
	speed	Using only thick cables	Using only thin cables	Maximum length	Total distance	
uistance	125 Kbps				156 m	
	250 Kbps	250 m	100 m	6 m	78 m	
	500 Kbps	100 m			39 m	
Connection configuration	Multidrop or T-branch system					
Number of nodes	64 (including master)					
Error	CRC error, duplicate node number check, device					
detection	list matching					
Network	Voltage: 11-25 V DC, Current consumption: 40 mA max.					
	(24 V DC) (supplied via a DeviceNet connector)					
Termination resistance	121 Ω (specified by a built-in switch when the line is terminated)					
Number of I/O points	Input: 8000, Output: 8000, Total: 16,000 (1000 words)					
Maximum message length	Send: 84 bytes, Receive: 88 bytes (service data)					
Number of modules	16 max.					
Current consumption	200 mA					
External dimensions	28.9 (W) X 100 (H) X 83.2 (D) mm ^(*1)					
Weight	110 g					

- *1: Excluding protrusions (see external dimensions for details).
- *2: To comply with the standard, the outdoor cable shall be less than 10 m, the indoor cable shall be less than 30 m.

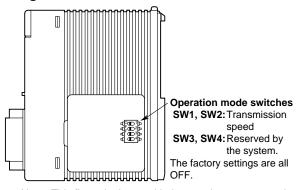


Components and Functions Front View

■ Front view



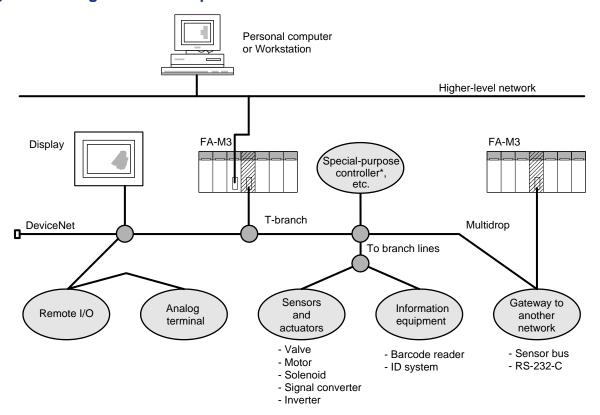
■ Right side view



Note: This figure is drawn with the panel cover removed.



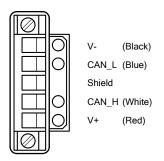
System Configuration Example



^{*:} Mass flow controller temperature controller and robot controller. etc.

External Connection Diagram

■ Connector Specifications



Operating Environment

There is no restriction on the type of CPU modules that can be used with this module.

Model and Suffix Codes

Model	Suffix Code	Style Code	Option Code	Description
F3LD01	-0N			DeviceNet, 1port

External Dimensions

