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General Specifications

Digital I/O Modules

STARDOM FCN

GS 34P02Q35-01E

■ GENERAL

This GS covers the hardware specifications of digital input/output modules that can be installed in an FCN autonomous controller.

For connection with field equipment, refer to "Field Connection Specifications" (GS 34P02Q30-01E) and "STARDOM FCN/FCJ Installation Guide" (TI 34P02Q91-01E).

■ STANDARD SPECIFICATIONS

● Digital Input Modules

The Digital Input Modules receive 32-channel or 64-channel 24 V DC ON/OFF signals.

Item	Specifications	
Model	**NFDV151**	**NFDV161**
Number of input channels	32	64
Rated input voltage	24 V DC	24 V DC
Input ON voltage	18 to 26.4 V DC	20 to 26.4 V DC
Input OFF voltage	5.0 V DC or less	5.0 V DC or less
Input current (at rated input voltage)	4.1 mA±20 % / channel	2.5 mA±20 % / channel
Instantaneous allowable maximum input voltage	30.0 V DC	30.0 V DC
Withstanding voltage	Between input signal and system: 2000 V AC for 1 minute (*2) Between commons: 500 V AC for 1 minute, common minus (-) side every 16-channel	
Functions Status input Push button input	 Function for detecting ON/OFF status Function for counting the push button edge	 Function for detecting ON/OFF status Function for counting the push button edge (*1)
Input response time	8 ms or less (for status input)	
Minimum ON detection time	20 ms (for push button input)	
Maximum ON/OFF cycle	25 Hz (for push button input)	
Maximum current consumption	500 mA (5 V DC)	550 mA (5 V DC)
Weight	0.3 kg	0.3 kg
External connection	Pressure clamp terminal, MIL connector cable (*2)	MIL connector cable (*2)

*1: Push button input is possible only for input channels from 1 to 32.
*2: The withstanding voltage for using MIL connector cable depends on the electrical specifications of its cable.

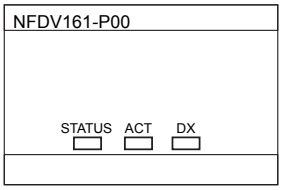
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■ LEDs

● Status Indicators

LED Indicator	Color	Description
STATUS	Green	Lights when the hardware is normal
ACT	Green	Lights when input/output actions are carried out
DX	Green	Not used

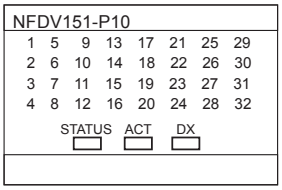


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● Individual Channels' Status Indicators (NFDV151, NFDV532, NFDV551)

LED Indicator	Color	Description
1 to 32 (*1)	Green	Lights when the respective channels are on

*1: For the NFDV532, the LED only indicates the state from channel 1 to channel 8.



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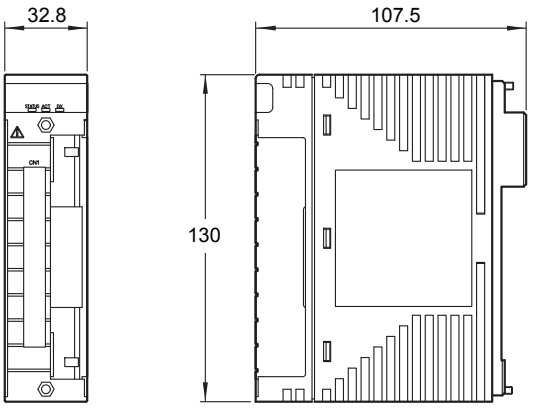
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■ EXTERNAL DIMENSIONS

● NFDV151, NFDV532, NFDV551 Digital I/O Module

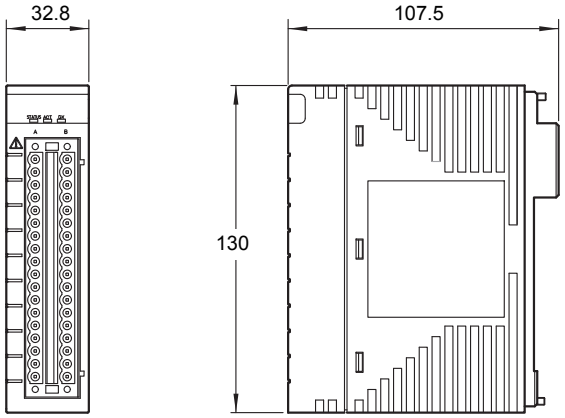
Unit: mm



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● NFDR541 Digital I/O Module

Unit: mm



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■ MODELS AND SUFFIX CODES

Digital Input Module

		Description
Model	NFDV151	Digital Input Module (32-channel, 24 V DC, Isolated)
Suffix Codes	-P	With function for counting the push button edge
	6	With status display and no explosion protection
	F	With status display and explosion protection
	0	Basic type
	1	With ISA Standard G3 option
Option Codes	/B5S00	With Pressure Clamp Terminal Block for Digital [Model: NFTB5S-00]
	/B5S10	With Pressure Clamp Terminal Block for Digital (surge absorber) [Model: NFTB5S-10]
	/CCC01	With Connector Cover for MIL Cable [Model: NFCCC01]

		Description
Model	NFDV161	Digital Input Module (64-channel, 24V DC, Isolated)
Suffix Codes	-P	With function for counting the push button edge
	5	General-purpose type with no explosion protection
	0	Basic type
	1	With ISA Standard G3 option

Digital Output Module

		Description
Model	NFDV532	Pulse Width Output Module (4-channel : Up Pulse/Down Pulse, 24 V DC, Isolated)
Suffix Codes	-P	Standard type
	1	With status display
	0	Basic type
	1	With ISA Standard G3 option
Option Codes	/D5S00	With Pressure Clamp Terminal Block for Digital Output [Model : NFTD5S-00]
	/D5S10	With Pressure Clamp Terminal Block for Digital Output (surge absorber) [Model : NFTD5S-10]
	/CCC01	With Connector Cover for MIL Cable [Model : NFCCC01]

		Description
Model	NFDV551	Digital Output Module (32-channel, 24 V DC, Isolated)
Suffix Codes	-P	Standard type
	6	With status display and no explosion protection
	F	With status display and explosion protection
	0	Basic type
	1	With ISA Standard G3 option
Option Codes	/D5S00	With Pressure Clamp Terminal Block for Digital Output [Model : NFTD5S-00]
	/D5S10	With Pressure Clamp Terminal Block for Digital Output (surge absorber) [Model : NFTD5S-10]
	/CCC01	With Connector Cover for MIL Cable [Model : NFCCC01]

		Description
Model	NFDR541	Relay Output Module (16-channel, 24 V DC, Isolated)
Suffix Codes	-P	Standard type
	5	General-purpose type with no explosion protection
	E	General-purpose type with explosion protection
	0	Basic type
	1	With ISA Standard G3 option
Option Code	/C4S70	With Pressure Clamp Terminal Block for Digital Input [Model : NFTC4S-70]

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PRODUCT: NFDV151-P10 S2 / STARDOM 32-CHANNEL DIGITAL INPUT MODULE

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