● Digital Output Modules

The Digital Output Modules output 32-channel or 64-channel transistor contact signals.

The ADV551 and ADV561 can be used in dual redundant configuration.

Item	Specifications	
Model	ADV551	ADV561
Number of output channels	32	64
Rated applied voltage	24 V DC	24 V DC
External power supply rating	24 V DC, 50 mA	24 V DC, 100 mA
External power supply voltage range	20.4 to 26.4 V DC	20.4 to 26.4 V DC
Output ON voltage maximum value	2 V DC	2 V DC
Leak current maximum value when output OFF	0.1 mA	0.1 mA
Output format	Current sink	Current sink
Maximum load current (*1)	100 mA/channel, 26.4 V	100 mA/channel, 26.4 V
Withstanding voltage	Between output signal and system: 2 kV AC, For 1 minute Between commons: 500 V AC, For 1 minute, common minus (–) side every 16-channel (*2)	
Functions		
Status output	ON/OFF status output function	ON/OFF status output function
Pulse width output	One-shot pulse width output function	One-shot pulse width output function
Time-proportioning output	Time-proportioning ON/OFF	Time-proportioning ON/OFF
Output response time	3 ms or less (for status output) 10 ms or less (for mixed status and pulse outputs)	
Pulse width	8 ms to 7200 s	
Pulse width resolution	8 ms, but ON/OFF delay of maximum 1 ms is added	
Maximum current consumption	700 mA (5 V DC) 60 mA (external power supply)	700 mA (5 V DC) 120 mA (external power supply)
Weight	Approx. 0.20 kg	Approx. 0.30 kg
External connection	Pressure clamp terminal, Dedicated cable (AKB331), MIL connector cable	Dedicated cable (AKB337), MIL connector cable

*1:   Connect a diode when driving DC relay.
*2:   The withstanding voltage for using a dedicated cable is 500 V AC (between output signal and system).
      The withstanding voltage for using MIL connector cable depends on the electrical specifications of its cable.

■ MODELS AND SUFFIX CODES

Digital Input Module

			Description
Model	ADV151		Digital Input Module (32-channel, 24 V DC, Isolated)
Suffix Codes	-P		With pushbutton input
	-E		With SOE capture (*1)
	5		Without status display; with no explosion protection
	6		With status display; with no explosion protection
	E		Without status display; with explosion protection
	F		With status display; with explosion protection
		0	Basic type
		3	With ISA Standard G3 option and temperature (-20 to 70 °C) option
Option Codes	/D5A00		With KS Cable Interface Adapter for 32-channel digital [Model: ATD5A-00]
	/B5S00		With Pressure Clamp Terminal Block for Digital Input [Model: ATB5S-00]
	/B5S10		With Pressure Clamp Terminal Block for Digital Input (surge absorber) [Model: ATB5S-10]
	/B5D00		With Dual Pressure Clamp Terminal Block for Digital Input [Model: ATB5D-00]
	/B5D10		With Dual Pressure Clamp Terminal Block for Digital Input (surge absorber) [Model: ATB5D-10]
	/CCC01		With Connector Cover for MIL Cable [Model: ACCC01]

*1:   Please refer to GS 33J30D10-01EN when using it.

			Description
Model	ADV161		Digital Input Module (64-channel, 24 V DC, Isolated)
Suffix Codes	-P		With pushbutton input
	5		Without status display; with no explosion protection
	E		Without status display; with explosion protection
		0	Basic type
		1	With ISA Standard G3 option

Digital Output Module

			Description
Model	ADV551		Digital Output Module (32-channel, 24 V DC, Isolated)
Suffix Codes	-P		With pulse width output function/time-proportional output function
	5		Without status display; with no explosion protection
	6		With status display; with no explosion protection
	E		Without status display; with explosion protection
	F		With status display; with explosion protection
		0	Basic type
		3	With ISA Standard G3 option and temperature (-20 to 70 °C) option
Option Codes	/D5A00		With KS Cable Interface Adapter for 32-channel Digital [Model : ATD5A-00]
	/D5S00		With Pressure Clamp Terminal Block for Digital Output [Model : ATD5S-00]
	/D5S10		With Pressure Clamp Terminal Block for Digital Output (surge absorber) [Model : ATD5S-10]
	/D5D00		With Dual Pressure Clamp Terminal Block for Digital Output [Model : ATD5D-00]
	/D5D10		With Dual Pressure Clamp Terminal Block for Digital Output (surge absorber) [Model : ATD5D-10]
	/CCC01		With Connector Cover for MIL Cable [Model : ACCC01]

			Description
Model	ADV561		Digital Output Module (64-channel, 24 V DC, Isolated)
Suffix Codes	-P		With pulse width output function/time-proportional output function
	5		Without status display; with no explosion protection
	E		Without status display; with explosion protection
		0	Basic type
		1	With ISA Standard G3 option