AnyWireASLINK System Products Guide



ASLINKTERMINAL [ASLINK Terminal]

BL296 □ B-08F □ -20



■ Note on use ⇒ A separate Address Writer is required to set addresses and other data.

* For more information, refer to [Various Settings] on page 10.

[Type] -

BL296SB-08F-20	NPN input
BL296XB-08F-20	NPN input/NPN output
BL296PB-08F-20	NPN output

BL296SB-08FS-20	PNP input
BL296XB-08FS-20	PNP input/PNP output
BL296PB-08FS-20	PNP output

[Connection terminal]

-			
For input			
For input/output	e-CON		
For output			
For input			
For input/output	JST XH series		
For output	XITSCHOS		
For input			
For input/output	MOLEX 5045 series		
For output	JU45 Selles		
	For input/output For output For input For input/output For output For input For input For input		

[Connection cable]

BL296-08-CN20	200mm
BL296-08-CN50	500mm
BL296-08-CN1K	1000mm

[Notes on Safety]

Precautions that must be observed in order to use this system safely are indicated as shown below. You must observe these precautions.



A WARNING indicates a potentially hazardous situation which, if not handled correctly, could result in death or serious injury.



A CAUTION indicates a potentially hazardous situation which, if not handled correctly, may result in personal injury or property damage.



O System Safety

This system is intended for general industrial applications. It does not have functions for supporting applications requiring higher levels of safety such as safety-related devices or accident prevention systems. The product must not be used for these purposes.

O Before installation and replacement of the product, be sure to turn OFF the power supply for the system.

O Prolonged continuous flow of a rated load current or higher or a transit current due to load short-circuit, etc., in the hybrid unit including the output unit and the output circuit may result in smoking or firing. An external safety device such as a fuse must be installed.



O System power supply

Use a stable, 24V DC power supply. Use of an unstable power supply may cause problems with the system.

O Separately route high-voltage and power cables

Although the AnyWireASLINK has a high noise margin, install the transmission line and I/O cables away from high-voltage and power cables.

O Connectors and terminals

- Pay careful attention to the length and installation of cable wiring to ensure that connectors and cables are neither overloaded nor disconnected.
- Make sure to prevent any metal objects from getting inside the connectors or the terminal blocks.
- Short-circuits caused by metal objects or mis-wiring are likely to damage the device.
- O Do not impose any external loads on the device. Doing so may cause a failure.
- O Do not disconnect or reconnect between the transmission line and remote units when the transmission line is active. A malfunction may occur.
- O Use the AnyWireASLINK within the range of the specifications and conditions shown below.

[Warranty]

■ Warranty period

The warranty period of the delivered product shall be one year after delivery to the place specified by the customer.

■ Scope of warranty

If a fault occurs with the product during use under normal operating conditions according to the description of this Products Guide and the product specifications within the above warranty period, we shall replace or repair the faulty part of the equipment free of charge. Note: The following cases are exempted from the scope of warranty:

(1) User's improper handling or use of the product

(2) When the fault is caused by any factor other than the delivered product

(3) When the fault is caused by modification or repair of the product by any person other than the supplier

(4) When the fault is caused by a natural disaster or other factor which is not attributable to the supplier

The term "Warranty" mentioned here means warranty of the delivered product only. We shall not be liable for incidental damage resulting from a fault of the delivered product.

■ Repair at user's cost

Investigations and repairs after elapse of the warranty period shall be conducted at user's cost.

Even in the warranty period, we shall accept order of repair of a fault or investigation of a cause of a fault beyond the above scope of warranty at user's cost.

■ Changes in the product specifications and the descriptions in the manual The descriptions in this manual may be subject to change without notice.

[About Pictogram*1] -



*1 The pictogram may not be marked (or stuck) depending on the product.

*2 AnyWireASLINK device not compatible with Ver. 1.1 (word transmission and single unit simplified replacement functions)

Some products, not marked with the Ver. 1.1 pictogram, are compatible with the functions included in Ver. 1.1. Refer to the lot No. and the product guide for ultimate confirmation.

*3 For details of Ver. 1.1, refer to the subsequent pages.

[About AnyWireASLINK Ver. 1.1]

New functions have been added to AnyWireASLINK products in May 2019 onward. Also, for the purpose of differentiation of compatible functions, indication of product lot number (lot No.) has been changed.

Compatible functions vary depending on lot No. Please understand the following description thoroughly to use each product.

Functions added to Ver. 1.1 are as follows:

Functions available with Ver. 1.1

Word transmission*1*2

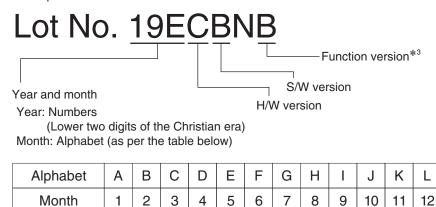
Single unit simplified replacement*1

- *1 To use these functions, the master unit compatible with each function is required. For details, refer to this manual together with the manual for the master unit.
- *2 You can use this function with the word-transmission AnyWireASLINK unit connected. To handle word data, word address settings are required for remote units. It depends on remote units whether word address setting is enabled or not.

[About Lot No.] -

As a result of the addition of functions, indication of lot No. has been changed from 3 digits (conventional format: year and month only) to 6 digits or 7 digits.

Example:



[&]quot;19E" means May 2019.

[About Word Transmission] -

The master unit compatible with the word transmission function provides areas for transmission and receiving of word data (numerical information) such as analog data and sensing level data.

Using this function enables reduction of occupancy of bit information area by word data.

To enable word transmission, it is necessary that the system should be configured only with remote units compatible with the word transmission function.

A remote unit incompatible with the word transmission function cannot be connected to the AnyWireASLINK system to conduct word transmission.

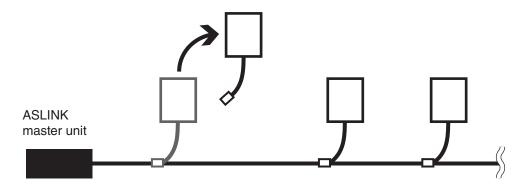
For remote units that handle word data, word address settings are required.

^{*3} Some products have no indication of function version.

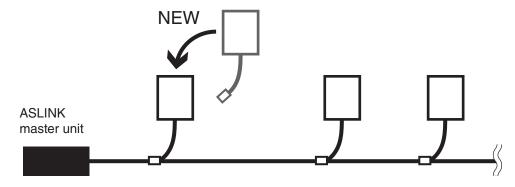
[About Single Unit Simplified Replacement]

During replacement of a remote unit, this function enables automatic settings of address and parameters of the existing remote unit into a new remote unit. (After replacement of the remote unit, address and parameter setting procedure using the address writer is not required.)

- Step 1 Turn OFF the 24V DC power supply for the master unit.
- Step 2 Disconnect a remote unit to be replaced.



■ Step 3 Connect a new remote unit.



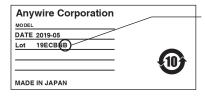
■ Step 4 Turn ON the 24V DC power supply to the master unit.



- It is necessary that both the master unit and remote unit should be compatible with the single unit simplified replacement function.
- Before disconnection and connection of the remote unit, be sure to turn OFF the power supply.
- For compatibility of a remote unit with the single unit simplified replacement function, see the lot No. and the manual for the remote unit.
- When a remote unit of a new function version is replaced with that of an old function version, the single unit simplified replacement function cannot be used.
- Operation is enabled in the case where the model of the remote unit before replacement is the same as that after replacement.
- If the model of the remote unit before replacement is different from that after replacement, a model mismatching error occurs, disabling address and parameter settings.
- Operation is enabled in the case where the address of the remote unit for replacement is the factory-set address (bit address 511).
- Several remote units cannot be simultaneously replaced. For replacement of several remote units, conduct the replacement procedure for each unit one by one.
- For a remote unit incompatible with the single unit simplified replacement function, set an address and parameters by using the address writer as in the conventional manner.
- For details of the single unit simplified replacement function (limitations, conditions, etc.), refer to the manual for the master unit.
- Identification of function version

Function version information is given on the lot label.

* The design and contents of the lot label may vary depending on the product model and lot No.



Function version:

When an equipment parameter is changed due to functional upgrading, etc., the function version will be updated (for example: $A \rightarrow B \rightarrow C$).

When a remote unit of a new function version is replaced with that of an old function version, the single unit simplified replacement function cannot be used.

[Functions]

■ Function list

Model	Specifications	Connection targets			Functions			Add	ress
4-wire (isolated)	NPN input: 8 points, NPN output: 8 points NPN input: 4 points/output: 4 points PNP input: 8 points, PNP output: 8 points	General-purpose sensors, switches General-purpose	Bit transmission	*1*2 Word transmission	*1*3 Single unit simplified replacement	*1*3 Remote address change	Detection of sensor cable disconnection	Bit address setting	Word address setting
	PNP input: 4 points/output: 4 points PNP input: 4 points/output: 4 points	output devices	0	0	0	0	×	0	×

^{*1} It depends on lot No. whether this function is available or not.

■ Detecting functions (Status details)

Functions									
Remote unit voltage drop	Sensing level drop	I/O disconnection	I/O short-circuit	I/O power supply drop					
0	×	×	×	0					

[Function Compatibility by Lot No.] -

This unit has undergone addition of functions and change of specifications according to version upgrading. Available functions and specifications of the unit vary depending on lot No.

Function	Lot No.
Word transmission*4	Available with S/W version "B" or later version
Single unit simplified replacement	(If lot No. is indicated in 3 digits (year and
Remote address change	month only), these functions are not available.)

^{*4} This terminal can be used in connection to the AnyWireASLINK unit for word transmission. Note that this terminal cannot handle word data by setting a word address.

■ How to check

Lot No. is indicated on the lot label.

Example:



^{*2} This terminal can be used in connection to the AnyWireASLINK unit for word transmission. Note that this terminal cannot handle word data by setting a word address.

^{*3} To use these functions, a master unit that supports each function is required. For details, refer to the manual for the master unit together with this manual.

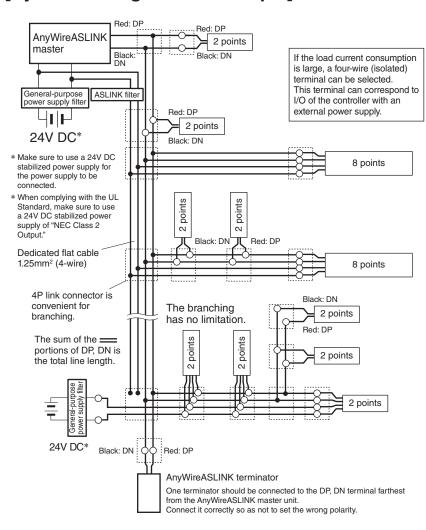
[How to Connect AnyWireASLINK]

The AnyWireASLINK can employ a two-wire or four-wire terminal selectively depending on the load current. If the load current is small, using a two-wire (non-isolated) terminal allows for achieving simplified wiring without local power supply.

In the case of prioritizing the sites of concentrated loads and/or the number of connections, hybridization with a four-wire (isolated) terminal, which supports local power supply, is also possible.

Make sure to use a four-wire (isolated) terminal in the case of input and load driving using an external power supply.

[System Configuration Example]



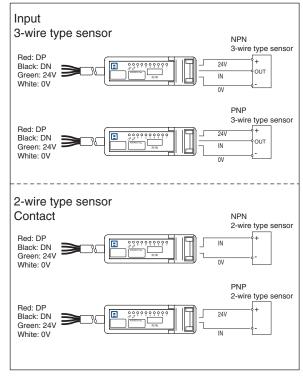
■ Relationship between the size and length of the transmission line and the supply current (Table 1)

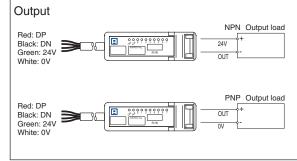
Size of	Supply curre	ent on the transmission	on line (DP, DN)
the transmission line (DP, DN)	Total length: 50m or less	Total length: Over 50m, no longer than 100m	Total length: Over 100m, no longer than 200m
1.25mm ²	MAX 2A	MAX 1A	MAX 0.5A
0.75mm ²	MAX 1.2A	MAX 0.6A	MAX 0.3A
0.5mm ²	MAX 0.8A	MAX 0.3A	MAX 0.2A

ACAUTION

- Refer to Table 1 so that the size and length of the transmission line and the allowable supply current lie within an appropriate range.
- Connect the same symbols (DP, DN) correctly between the AnyWireASLINK master unit and each device.
- The branching length or branch number has no limitation.
- Include the length of the cable provided with the terminal in the "total line length."
- Connect the terminator (with polarity) to the transmission line terminal farthest from the AnyWireASLINK master unit.

■ Connection examples of load





[Installation Location]

- Locations where this product is not directly subject to vibration or shock
- Locations where this product is not directly exposed to dust
- Locations where this product is not directly exposed to conductors, such as metal chips or spatters
- Locations without condensation
- Locations where the atmosphere is free of corrosive gases, flammable gases, and sulfur
- Locations far from high-voltage or high-current cables
- Locations far from servos, inverters, and other cables and controllers that generate high-frequency noise

[Notes on Combined Use with 4-Wire (Isolated) Terminal]

If the total length of the sections where all the DP, DN, 24V, and 0V lines run in parallel in the power supply system is more than 50m, connect an ASLINK filter (Type ANF-01) or a filter manufactured by COSEL Co., Ltd. (Type EAC-06-472) in series to the 24V and 0V lines at a position where these four lines start running in parallel.

This will improve noise resistance, suppress the adverse effects of crosstalk caused by transmitted signals, and stabilize signals.

The above filters must be inserted regardless of whether power is supplied to all terminals collectively from the power supply for the master or power is supplied to each terminal individually from their local power supply.

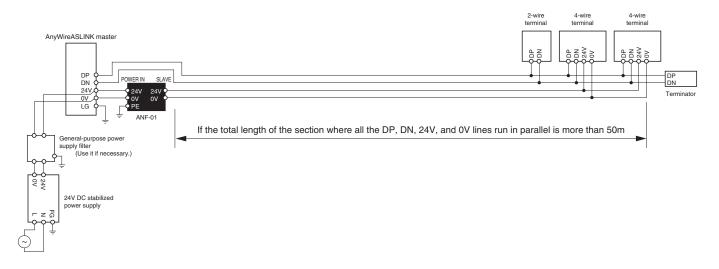
Insert the "ASLINK filter [Type ANF-01]" regardless of installation method and distance when complying with CE Standard.

■ Filter allowable current

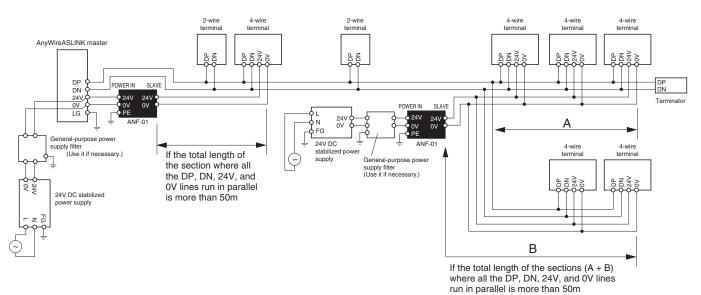
Product	Type	Allowable power current			
ASLINK filter	ANF-01	MAX 5A/24V DC			
Filter of COSEL Co., Ltd.	EAC-06-472	MAX 6A/24V DC			

■ AnyWire Type: ANF-01 Connection example

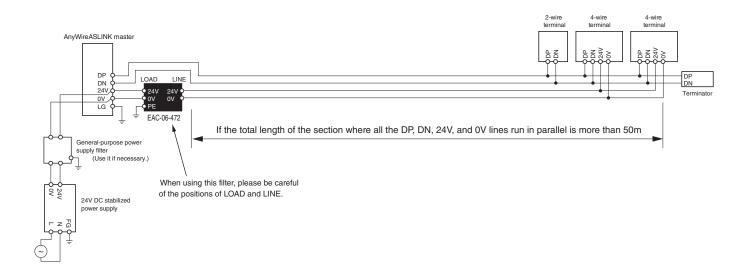
①Power supply to the entire system



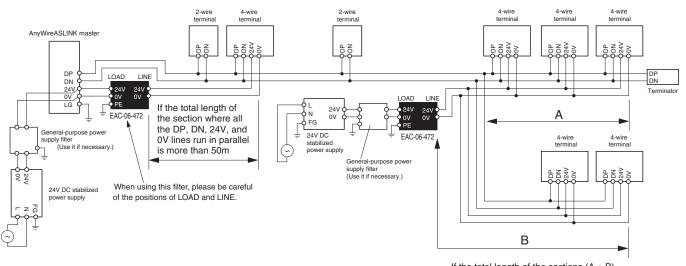
2 Local power supply/branching



① Power supply to the entire system

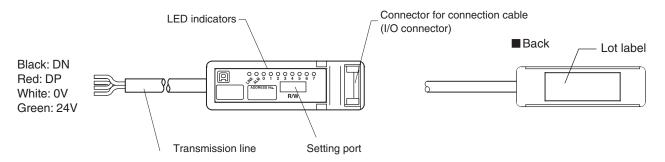


②Local power supply/branching ------



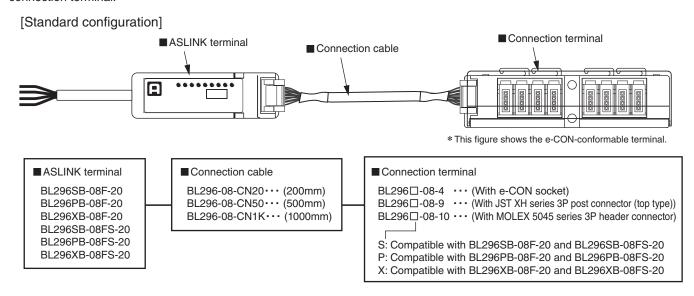
If the total length of the sections (A + B) where all the DP, DN, 24V, and 0V lines run in parallel is more than 50m

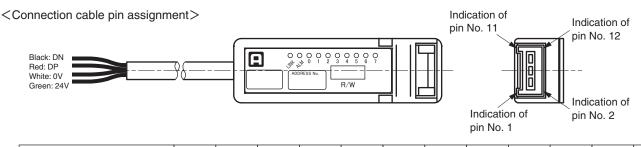
[Name of Each Part]



[Pin Assignment]

This unit can be used as a connector-type compact terminal when combined with the optional connection cable and connection terminal.

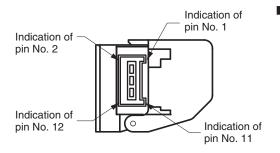


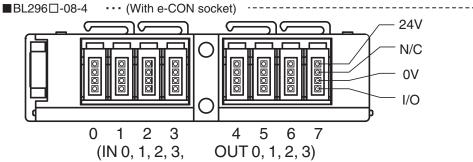


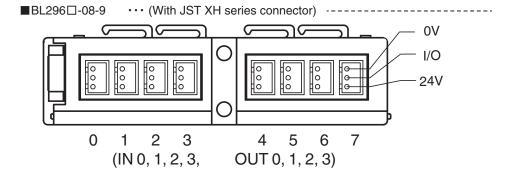
	1	2	3	4	5	6	7	8	9	10	11	12
BL296SB-08F□-20	24V	24V	0V	0V	IN0	IN1	IN2	IN3	IN4	IN5	IN6	IN7
BL296PB-08F□-20	24V	24V	0V	0V	OUT0	OUT1	OUT2	OUT3	OUT4	OUT5	OUT6	OUT7
BL296XB-08F□-20	24V	24V	0V	0V	IN0	IN1	IN2	IN3	OUT0	OUT1	OUT2	OUT3

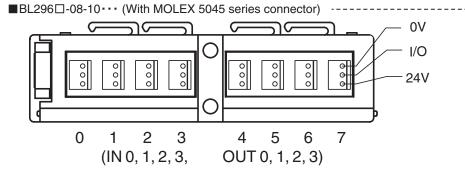
<Connection cable pin numbers and wire colors>

	1	2	3	4	5	6	7	8	9	10	11	12
	24V	24V	0V	0V	IN0	IN1	IN2	IN3	IN4	IN5	IN6	IN7
BL296-08-CN□□	24 V	24V	UV	OV	OUT0	OUT1	OUT2	OUT3	OUT4	OUT5	OUT6	OUT7
	Gray	Gray/Black	White	White/Black	Black	Brown	Red	Orange	Yellow	Green	Blue	Purple









*The numbers in () are intended for the input/output mixed type.

[Various Settings]

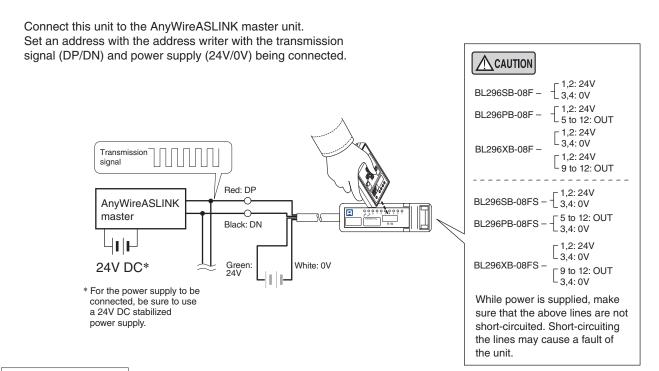
Address setting

■ Common procedure for address writer operation

Be sure to connect to the AnyWireASLINK master unit to use.

ARW-04 (address writer) of Rev. (Ver.) 1.01 or later version, or ARW-03 of Rev. (Ver.) 2.10 or later version is required for address setting.

For details of the operating method, refer to the product guide for the address writer.

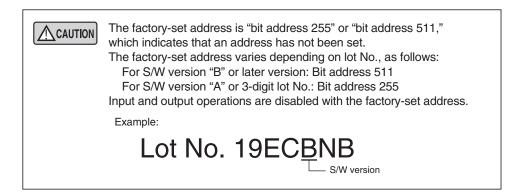


Address setting

An address number is set as a beginning number from which part of the transmission frame is occupied to the terminal. Set the address number within the range of bit address "0 to 254."

(For the input/output mixed type, the same address number should be assigned to both input and output.)

- Set the address number so that the area occupied by the terminal does not exceed the transmission points of the master unit.
- Make sure that the address number setting is not duplicated.
- Also, use the address writer to read an address number that has been written in the terminal.



[Data Configuration] -

BL296SB-08F-20, BL296SB-08FS-20

Address offset	n+7	n+6	n+5	n+4	n+3	n+2	n+1	n	
Bit input	IN7	IN6	IN5	IN4	IN3	IN2	IN1	IN0	

* n = Bit address number assigned to this unit

BL296PB-08F-20, BL296PB-08FS-20

Address offset	n+7	n+6	n+5	n+4	n+3	n+2	n+1	n
Bit output	OUT7	OUT6	OUT5	OUT4	OUT3	OUT2	OUT1	OUT0

BL296XB-08F-20, BL296XB-08FS-20

Address offset	n+3	n+2	n+1	n
Bit input	IN3	IN2	IN1	IN0
Bit output	OUT3	OUT2	OUT1	OUT0

■ Status details

The contents of an alarm detected with this unit can be checked with the "status detail area*1" on the master unit.

A bit corresponding to the status detail area turns ON depending on the contents of the alarm.

Status detail area of the master unit

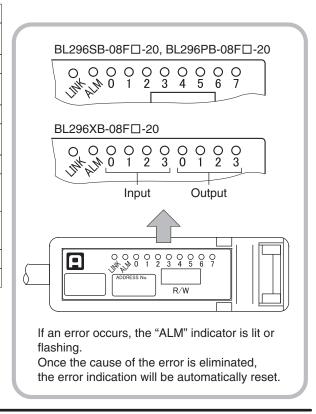
Status	h15	h14	b13	b12	b11	b10	hO	b8	h7	b6	hE	h4	h2	ha	h1	b0	
details	טוט	014	טוט	012	ווט	טוט	b9	DO	b7	DO	b5	b4	b3	b2	DI	DU	

- b0: Remote unit voltage drop (DP-DN-side voltage drop)
- b5: I/O power supply drop (24V-0V-side voltage drop)
- *1 This can be used on the master unit having the status detail area. For details, refer to the manual for the master unit.

[Monitor Display] -

LED name	Display status	Description
LINK	Lit =	Transmission signal error Model mismatching error*2
(Green)	Flashing	Transmission signal received
	Unlit	No transmission signal (disconnection and reverse connection of DP and DN lines included)
	Lit ====	I/O power supply drop
ALM (Red)	Flashing •••••	Remote unit voltage drop Model mismatching error*2
	Unlit	No ALM available
LINK ALM	Alternate flashing LINK ALM	ID duplicated*3 or ID unregistered*4
LINK ALM	LINK ALM	Model mismatching error*2
I/O	Lit ====	ON
(Orange)	Unlit	OFF

- *2 This indication appears when the use of the single unit simplified replacement function fails. (This operation occurs on the S/W version "B" or later version.)
- *3 If ID duplication is detected when the master unit executes automatic address recognition, this indication appears.
- *4 For Š/W version "B" or later version: This indication appears when transmission signal and power supply are normally connected, and the unit is set to the factory-set address.
 - For S/W version "A" or 3-digit lot No.: This condition is detected when the master unit executes automatic address recognition.



[Troubleshooting] -

<LINK does not flash>

Things to be checked	Remedy
Check the connection of this unit.	Disconnect this unit once, and then reconnect it.
Check conditions of the master unit and remote unit.	If LINK on the master unit is flashing and LINK on the remote unit is lit, it is possible that the master unit has a fault or power supply (24V-0V) is directly connected to the DP-DN pins of the remote unit. *If LINK is lit while ALM is flashing, it means a failure in single unit simplified replacement.
	2) If LINK on the master unit is flashing and LINK on the remote unit is unlit, it is possible that the power (24V DC) is not supplied to the master unit, there is a disconnection on the transmission line (DP, DN), or the remote unit has been damaged.
	3) If LINK on the master unit is not flashing, check the power supply to the master unit. Also, since there is a possibility that some system error has occurred, refer to the user's manual of the master unit.
	4) A remote unit incompatible with Ver.1.1 cannot be used in connection to the AnyWireASLINK system for word transmission. Check the setting of the master unit, and lot No. of the remote unit.

<ALM is lit>

Things to be checked	Remedy
Check the connection of I/O terminals on the remote unit.	Adjust the voltage of external power supply connected to the I/O side of the remote unit so that it falls within the rating (21.6 to 27.6V).
	In addition, ensure that there is no contact between and erroneous wiring of transmission lines.

<ALM is flashing>

Things to be checked	Remedy
Check the voltage (24V DC) of external power supply to the master unit.	Adjust the voltage of external power supply to the master unit so that it will be in the range from 21.6 to 27.6V. (Recommended voltage is 26.4V.) Check the total length. Review the total length and wire diameter of transmission line so that the load will not exceed the current limit supplied by the transmission line and adjust the connected load. (In the case of the wire size of 1.25mm² and total length of 50m or less, the current supplied by the transmission line is 2A.) *If ALM is flashing while LINK is lit, it means a failure in single unit simplified replacement.

<LINK and ALM flashes alternately>

Things to be checked	Remedy
Check the address of the remote unit.	The address of the remote unit is either unregistered or duplicated. Take the following actions. *The remote unit cannot be used with the factory-set address. 1) Set an address correctly. 2) Check if there is a remote unit on which the indicator lamps are flashing in the same manner and reset the addresses so that they are not duplicated.

<LINK is lit and ALM is flashing: Model mismatching error (Failure in single unit simplified replacement)>

Things to be checked	Remedy
Check the connection of the remote unit.	Defective connections and the like may have caused single unit simplified replacement to fail. Remove the remote unit after replacement, and make connections again. *When two or more replacement remote units are simultaneously connected, the single unit simplified replacement function does not work.
Check the address of the remote unit.	Check if the address of the replacement remote unit is the same as the address before shipment (a bit address of 511). *If the address of the replacement remote unit is not the same as the address before shipment, the single unit simplified replacement function does not work.
Check the model of the remote unit.	Check if the replacement remote unit is of the same type as that of the remote unit before the replacement.
Check the lot No. of the remote unit.	Check if the function version for the replacement remote unit is older than that of the remote unit before the replacement. *If the function version of the replacement remote unit is older, the single unit simplified replacement function does not work.

[Configuration and Electrical Characteristics of the Input and Output Circuits] -

4-wire (isolated) NPN input BL296SB-08F-20

<Circuit conditions>

Rated input voltage: 24V DC

Max. switching current: 3.5mA

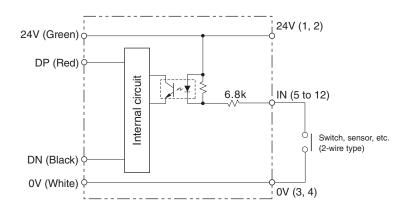
ON current: 2.2mA or more

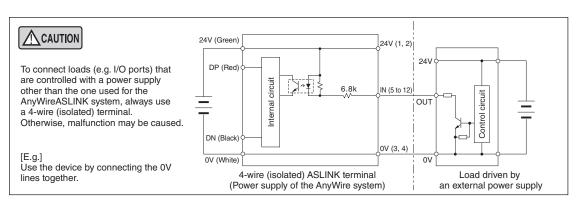
OFF current: 1mA or less

ON voltage: 16V or more (2

ON voltage: 16V or more (24V-IN)
OFF voltage: 8V or less (24V-IN)
Allowable current at 24V: 1A max. (24V-0V)

(per terminal)

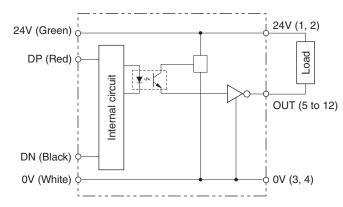




4-wire (isolated) NPN output BL296PB-08F-20

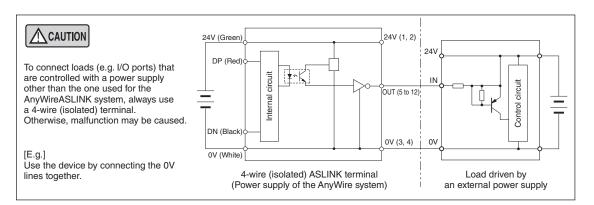
<Circuit conditions>

Withstand voltage: 30V DC Max. ON current: 100mA



To connect inductive load, use a surge killer.

If output is turned ON with the 24V and OUT terminals short-circuited, the output device will be damaged.



4-wire (isolated) PNP input BL296SB-08FS-20

<Circuit conditions>

Rated input voltage: 24V DC

Max. switching current: 3.5mA

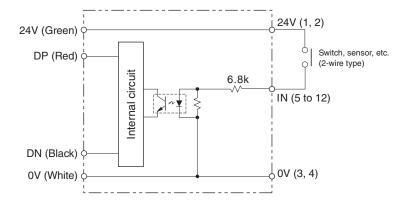
ON current: 2.2mA or more

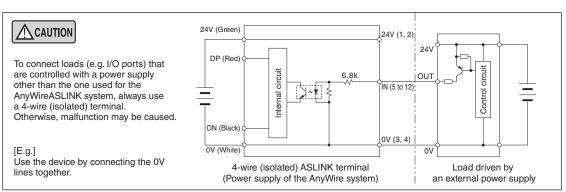
OFF current: 1mA or less

ON voltage: 16V or more (IN-0V)

OFF voltage: 8V or less (IN-0V) Allowable current at 24V: 1A max. (24V-0V)

(per terminal)

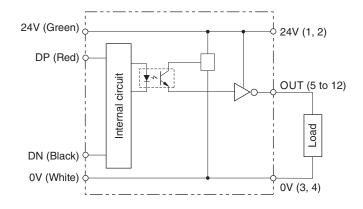




4-wire (isolated) PNP output BL296PB-08FS-20

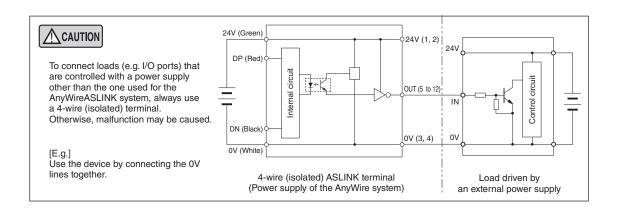
<Circuit conditions>

Withstand voltage: 30V DC Max. ON current: 100mA



To connect inductive load, use a surge killer.

If output is turned ON with the OUT and 0V terminals short-circuited, the output device will be damaged.



4-wire (isolated) NPN input BL296XB-08F-20 (Input)

<Circuit conditions>

Rated input voltage: 24V DC

Max. switching current: 3.5mA

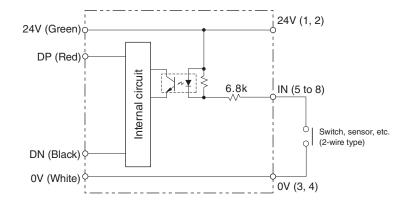
ON current: 2.2mA or more

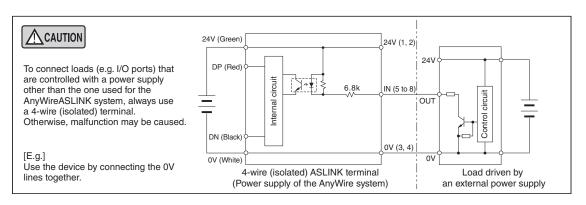
OFF current: 1mA or less

ON voltage: 16V or more (2:

ON voltage: 16V or more (24V-IN)
OFF voltage: 8V or less (24V-IN)
Allowable current at 24V: 1A max. (24V-0V)

(per terminal)

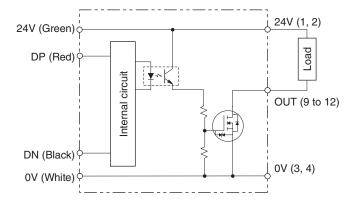




4-wire (isolated) NPN output BL296XB-08F-20 (Output)

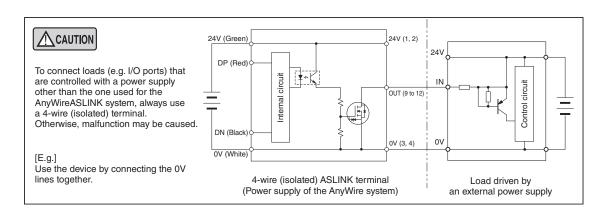
<Circuit conditions>

Withstand voltage: 30V DC Max. ON current: 100mA



To connect inductive load, use a surge killer.

If output is turned ON with the 24V and OUT terminals short-circuited, the output device will be damaged.

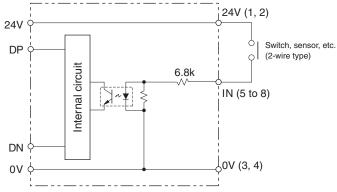


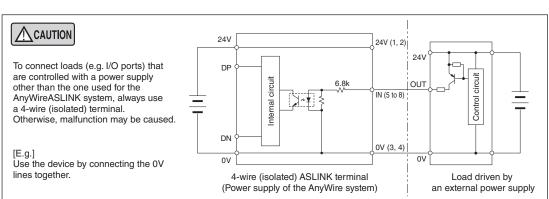
4-wire (isolated) PNP BL296XB-08FS-20 (Input)

<Circuit conditions>

Rated input voltage: 24V DC Max. switching current: 3.5mA

ON current: 2.2mA or more
OFF current: 1mA or less
ON voltage: 16V or more (IN-0V)
OFF voltage: 8V or less (IN-0V)

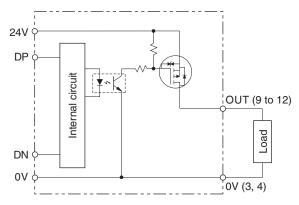




4-wire (isolated) PNP BL296XB-08FS-20 (Output)

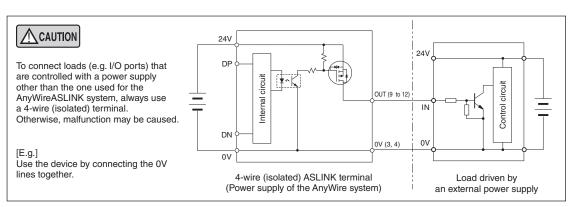
<Circuit conditions>

Withstand voltage: 30V DC Max. ON current: 100mA



To connect inductive load, use a surge killer.

If output is turned ON with the OUT and 0V terminals short-circuited, the output device will be damaged.



[Specifications]

■ General specifications

Operating ambient temperature/humidity Storing ambient temperature/humidity Vibration resistance Shock resistance	0 to +55°C, 10 to 90%RH No condensation -25 to +70°C, 10 to 90%RH No condensation Based on JIS B 3502 and IEC 61131-2 Based on JIS B 3502 and IEC 61131-2
Atmosphere	No corrosive gas
Operating altitude*1	0 to 2000m
Pollution level*2	2 or less

- *1 Do not use or store AnyWireASLINK devices in an environment where the pressure exceeds the atmospheric pressure at an altitude of 0 meters. Doing so may result in malfunction.
- *2 "Pollution level" is an index that indicates the degree of occurrence of conductive substances in the environment where the device is used.

Pollution level 2 means the occurrence of only pollution by non-conductive substances. In such an environment, however, electrical conduction could occur due to accidental condensation.

■ Transmission specifications

Service power supply voltage	24V DC +15% to -10% (21.6 to 27.6V DC) with a ripple of 0.5Vp-p or less
Transmission method	DC power supply superimposed total frame/cyclic method
Synchronization method	Frame/bit synchronization method
Transmission procedure	AnyWireASLINK protocol
Connection mode	Bus type (Multi-drop method, T-branch
	method, Tree branch method)
Number of	Number of bit points:
connection points*3	1024 points max.
	(Input: 512 bits, Output: 512 bits)
	Number of word points:
	1024 words max.
	(Input: 512 words, Output: 512 words)
Number of connection units*3	Up to 256 units
RAS features	Detection of transmission line disconnection,
	transmission line short-circuit, transmission
	power supply drop, and
	duplicated/unregistered ID

^{*3} The number differs depending on the master unit. Be sure to refer to the manual of the master unit for the number.

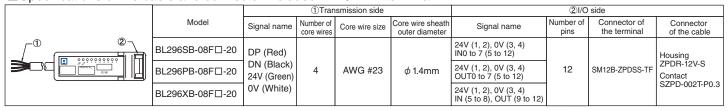
■ Individual specifications

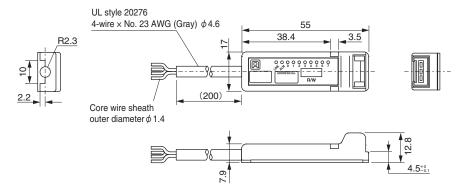
	Comoationo					
Number of occupied points	BL296SB-08F-20 BL296XB-08F-20	NPN bit inpu				
	BL296PB-08F-20 NPN bit output: 8 points					
	BL296SB-08FS-20 NPN bit output: 8 points PNP bit input: 8 points					
	BL296XB-08FS-20	PNP bit input				
	DL230ND 001 0 20		ut: 4 points			
	BL296PB-08FS-20	PNP bit outp				
Response time*4	1ms max.					
Detection function	Remote unit voltage dr I/O power supply drop					
Current consumption		Transmission side (DP-DN)	I/O side*5 (24V-0V)			
	BL296SB-08F-20 BL296XB-08F-20 BL296PB-08F-20 BL296SB-08FS-20 BL296XB-08FS-20 BL296PB-08FS-20	6mA 6mA 6mA 6mA 6mA	40mA 26mA 6mA 40mA 26mA			
Weight	BL296 B-08F -20 BL296 -08-4 BL296 -08-9 BL296 -08-10 BL296-08-CN20 BL296-08-CN50 BL296-08-CN1K	15g 20g 18g 18g 11g 26g 50g				
Unit model No.*6	BL296SB-08F-20 BL296XB-08F-20 BL296PB-08F-20 BL296SB-08FS-20 BL296XB-08FS-20 BL296PB-08FS-20	A000 A600 A300 A001 A601 A301				

- *4 Indicates the internal processing time of this unit. The maximum transmission delay time is defined as "this time + bit transmission cycle time × 2."
 *5 Current consumption for input is a value assumed when all IN-0V pins (NPN) or 24V-IN
- *5 Current consumption for input is a value assumed when all IN-0V pins (NPN) or 24V-II pins (PNP) are short-circuited. To connect a 3-wire type sensor, add a total current consumption of the sensor.
 - Current consumption for output is a value assumed when all points are turned ON. Add a total current consumption of load being connected.
- *6 Indicates the model-specific code (hexadecimal number).

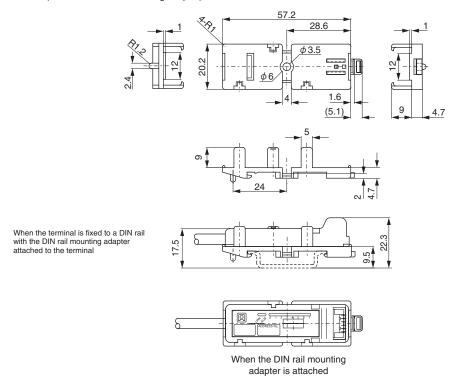
You can check the model No. by reading the relevant parameter from the master unit. For details, refer to the manual for the master unit.

■ Specifications of the cable and connector included in ASLINK terminal

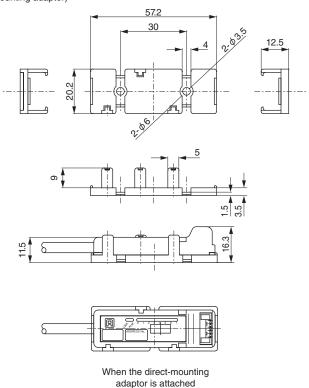


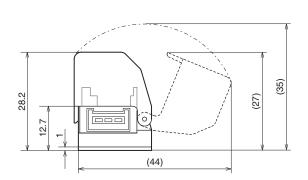


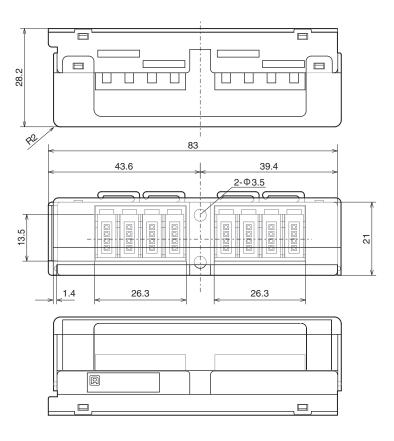
■Dimensions of ADP-96 (dedicated DIN-rail mounting adapter)



■Dimensions of ADP-96D (dedicated direct-mounting adaptor)

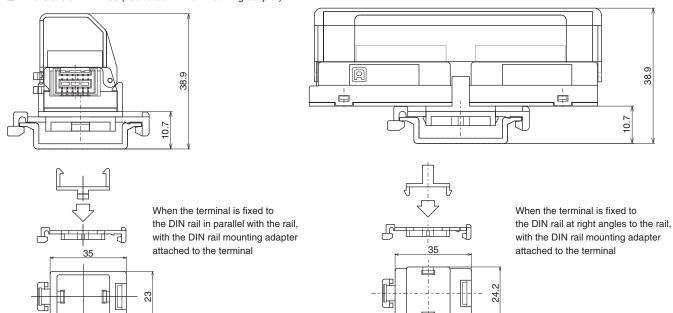






■ Dimensions of ADP-T96 (dedicated DIN-rail mounting adapter)

19.75



^{*}The above figures show examples of the terminal with e-CON socket (BL296 -08-4). The same dimensions apply to the models with JST connector (BL296 -08-9) and Molex connector (BL296 -08-10).

19.75



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