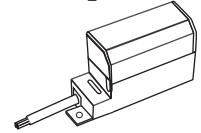


ASLINKTERMINAL [ASLINK Integrated Compact Terminal]

BL296□B-04F□-4A-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 9.

[Type]


BL296SB-04F-4A-20	NPN input	e-CON (4 poles)
BL296XB-04F-4A-20	NPN input/NPN output	
BL296PB-04F-4A-20	NPN output	


BL296SB-04FS-4A-20	PNP input	e-CON (4 poles)
BL296XB-04FS-4A-20	PNP input/PNP output	
BL296PB-04FS-4A-20	PNP output	

[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.

-  **WARNING** A WARNING indicates a potentially hazardous situation which, if not handled correctly, could result in death or serious injury. /  **CAUTION** A CAUTION indicates a potentially hazardous situation which, if not handled correctly, may result in personal injury or property damage.

-  **WARNING**
- 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.
 - Always turn off the system power before installing or replacing/cleaning the product.
 - 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.

-  **CAUTION**
- System power supply
Use a stable, 24V DC power supply. Use of an unstable power supply may cause problems with the system.
 - 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.
 - 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.
 - Do not impose any external loads on the units. Doing so may cause a failure.
 - Do not disconnect or reconnect between the transmission line and remote units when the transmission line is active. A malfunction may occur.
 - Use the AnyWireASLINK within the range of the specifications and conditions shown below.
 - This unit is non-enclosed type and intended to be installed in an appropriate external enclosure for fire, shock, and mechanical protection.
 - Unit installation, wire insulation, wiring and separation shall comply with the requirements of NEC/CEC and the local authority.

[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 under the normal operating conditions assumed in the product specifications and according to the instructions of this manual within the above warranty period, faulty parts shall be replaced or repaired 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]

	Ver. 1.0*2		Compatible with Ver. 1.1*3
---	------------	---	----------------------------

- *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.

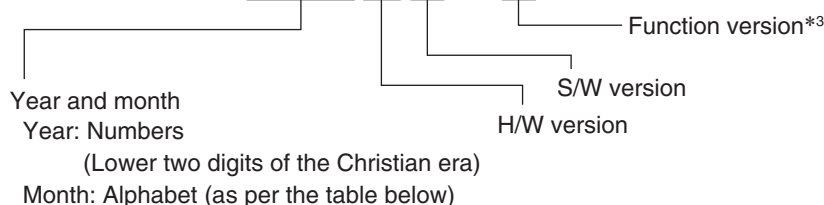
*2 You can use this function with the word-transmission AnyWireASLINK unit connected.
To handle word data, word address settings are required for remote units.
It depends on remote units whether word address setting is enabled or not.

[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:

Lot No. 19ECBNB



Alphabet	A	B	C	D	E	F	G	H	I	J	K	L
Month	1	2	3	4	5	6	7	8	9	10	11	12

“19E” means May 2019.

*3 Some products have no indication of function version.

[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.

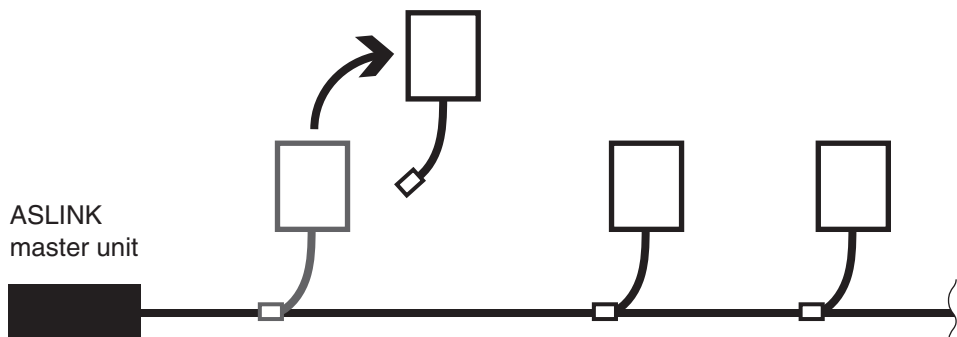
For remote units that handle word data, word address settings are required.

[About Single Unit Simplified Replacement]

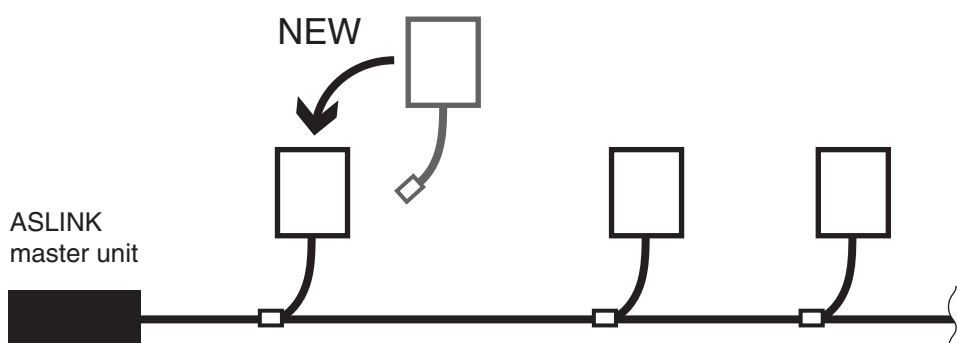
During replacement of a remote unit, this function enables automatic settings of address and parameters of the existing remote unit into a new remote unit. (After replacement of the remote unit, address and parameter setting procedure using the address writer is not required.)

■ 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.

Anywire Corporation	
MODEL	
DATE 2019-05	
Lot 19ECB(B)	
MADE IN JAPAN	

Function version:

When an equipment parameter is changed due to functional upgrading, etc., the function version will be updated (for example: A→B→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						Address	
			Bit transmission	*1*2 Word transmission	Single unit simplified replacement*3	Remote address change*3	Detection of sensor cable disconnection	*1*3*4 1024-point transmission	Bit address setting	Word address setting
ASLINKTERMINAL 4-wire (isolated) type integrated compact terminal e-CON (4 poles)	NPN input: 4 points, NPN output: 4 points NPN input: 2 points/output: 2 points PNP input: 4 points, PNP output: 4 points PNP input: 2 points/output: 2 points	General-purpose sensors, switches General-purpose output devices	○	○	○	○	×	○	○	×

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

*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.

*4 This unit can be used in connection to the AnyWireASLINK system that provides 1024 bits.

■Detecting functions (Status details)

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

[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*5	Available with S/W version "B" or later version (If lot No. is indicated in 3 digits (year and month only), these functions are not available.)
LED indication for single unit simplified replacement function*6	
1024-point transmission*7	

*5 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.

*6 The single unit simplified replacement function works even if the lot No. does not support the LED indication for the single unit simplified replacement function.

(When the master unit executes the single unit simplified replacement function, addresses/parameters will be written, if specified conditions are satisfied.)

*7 This unit can be used in connection to the AnyWireASLINK system that provides 1024 bits.

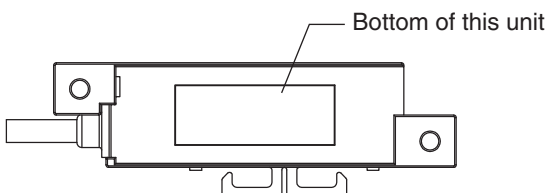
■How to check

Lot No. is indicated on the lot label.

Example:

Lot No. 19ECBNB

H/W version ———
S/W version ———
Function version ———



[How to Connect AnyWireASLINK]

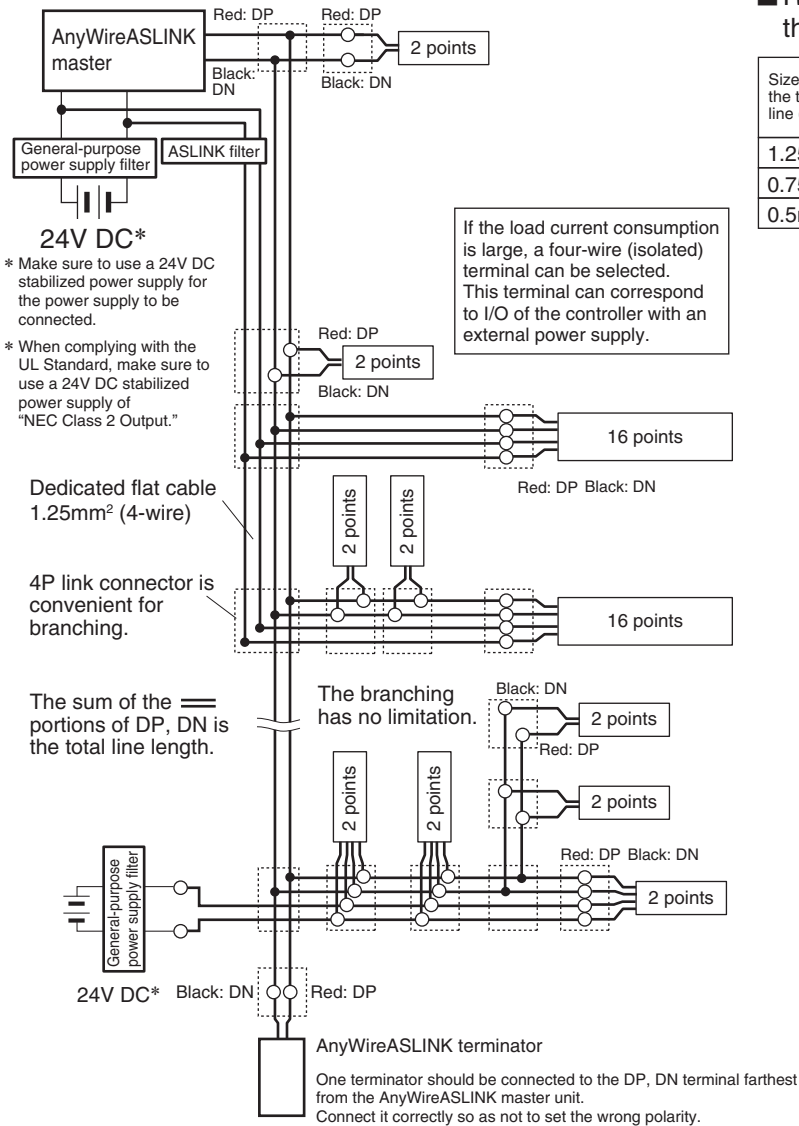
The AnyWireASLINK can employ a two-wire or four-wire terminal selectively depending on the load current.

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 the transmission line (DP, DN)	Supply current on 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 0.4A	MAX 0.2A

⚠ CAUTION

- 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 DP, DN terminal farthest from the AnyWireASLINK master unit.

[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.

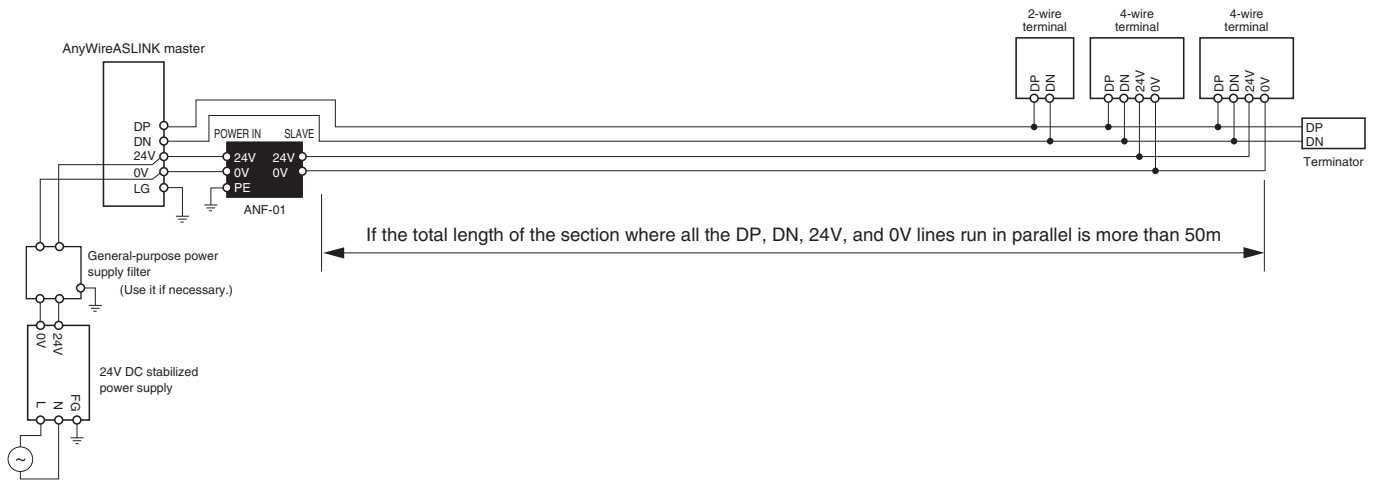
Insert the "ASLINK filter [Type ANF-01]" regardless of installation method and distance when complying with CE Standard.

■ Filter allowable current

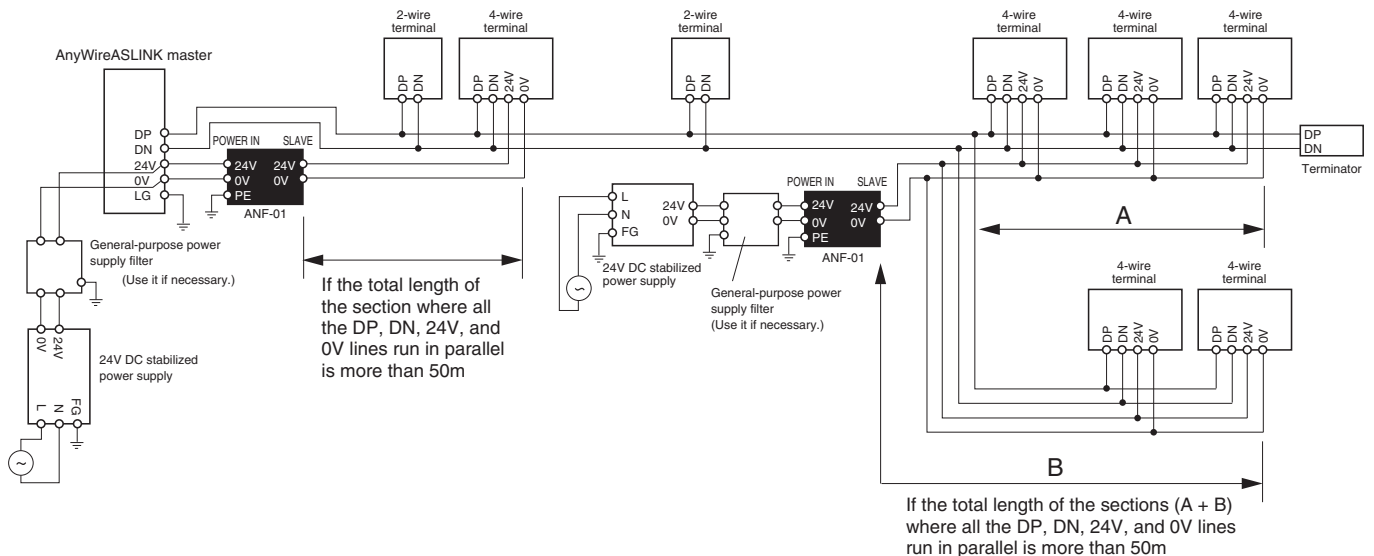
Product	Type	Allowable power current
ASLINK filter	ANF-01	MAX 5A/24V DC
Filter of COSEL Co., Ltd.	EAC-06-472	MAX 6A/24V DC

■ AnyWire Type: ANF-01 Connection example

① Power supply to the entire system

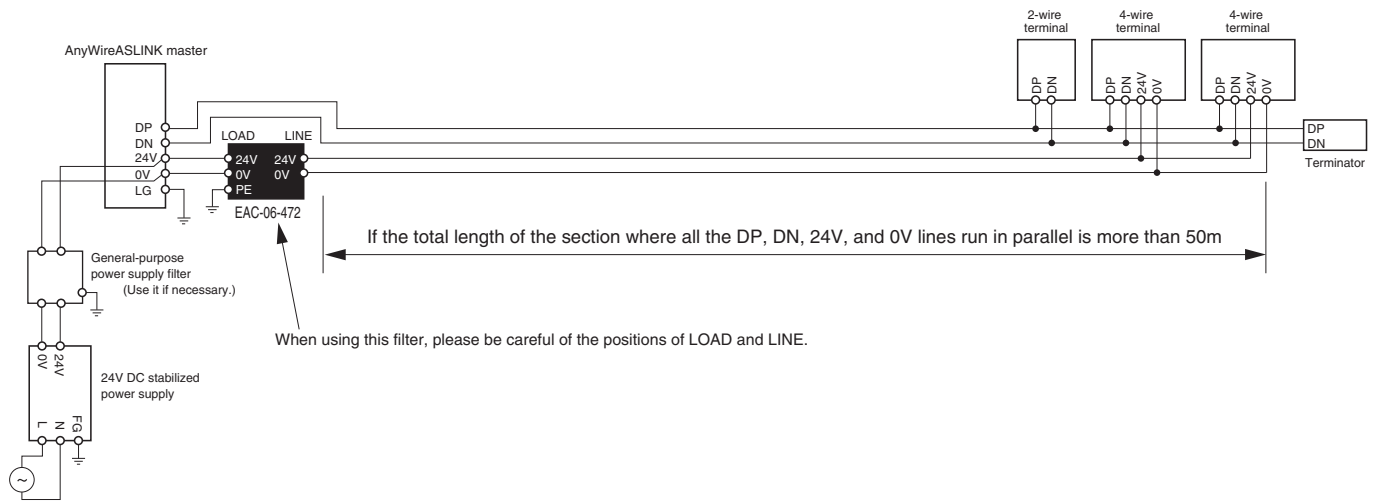


② Local power supply/branching

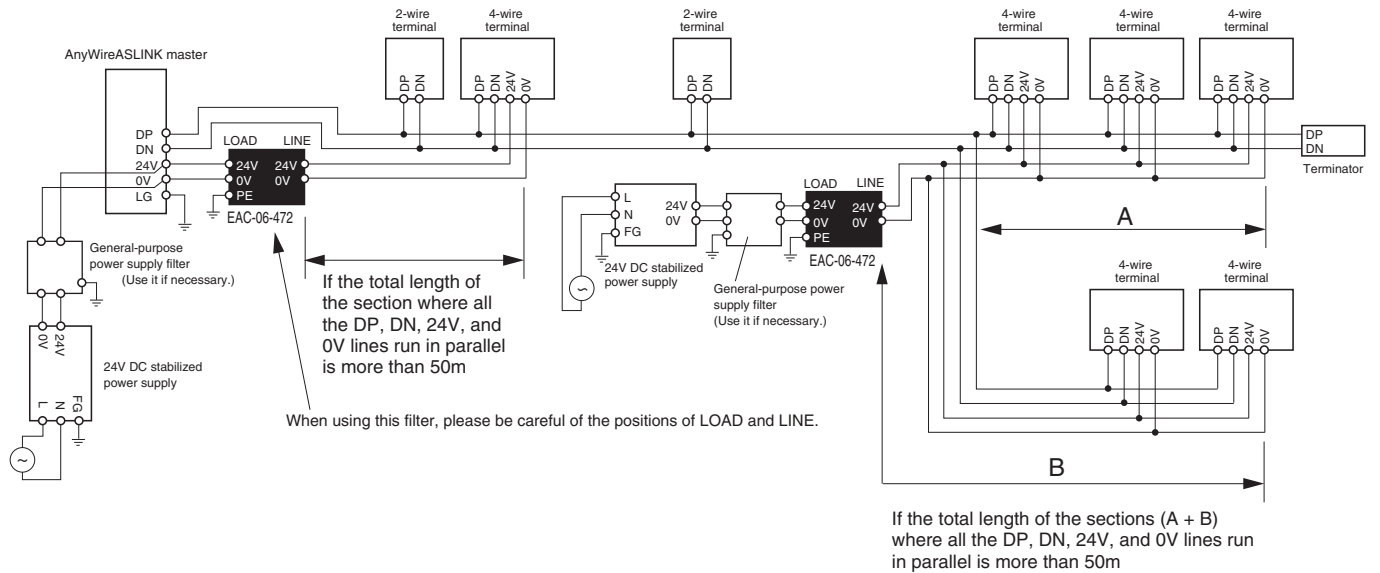


■ COSEL Co., Ltd. Type: EAC-06-472 Connection example

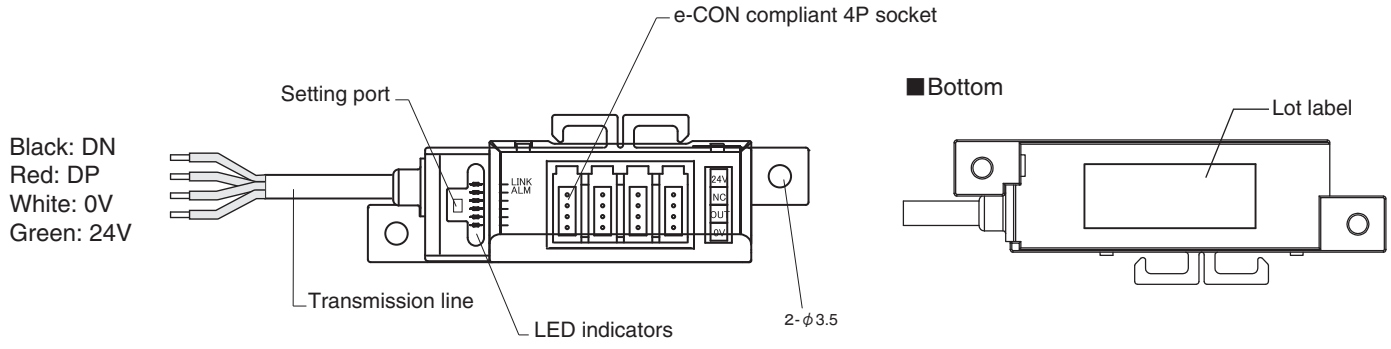
① Power supply to the entire system



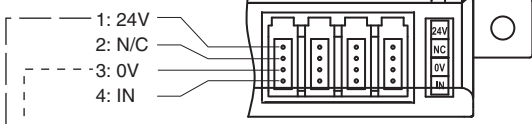
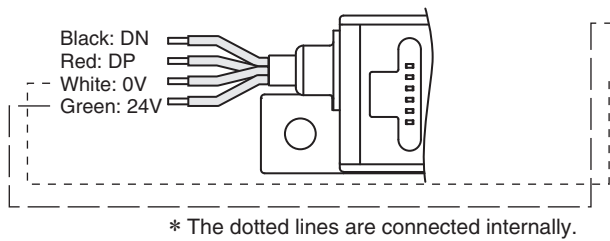
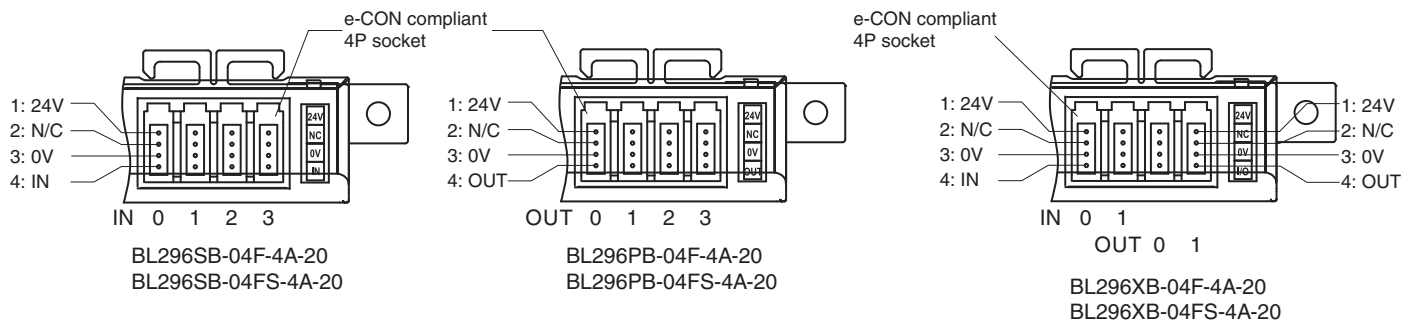
② Local power supply/branching



[Name of Each Part]



[Pin Assignment]



** The pins of the same symbol (24V and 0V each) are internally connected.
If current is supplied collectively at a single 24V or 0V pin, limit it to 0.5A or less.

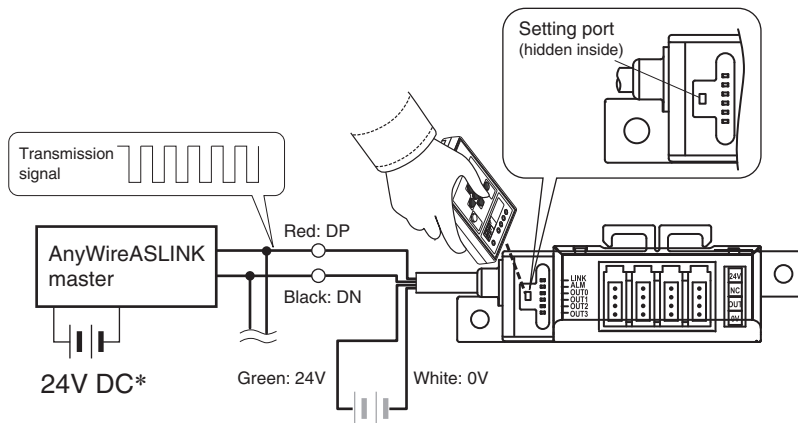
[Various Settings]

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

Connect this unit to the AnyWireASLINK master unit.
 Set an address with the address writer with the transmission signal (DP/DN) and power supply (24V/0V) being connected.



* For the power supply to be connected, be sure to use a 24V DC stabilized power supply.

CAUTION

BL296SB-04F	-	[1:24V 3:0V
BL296XB-04F	-	[1:24V (Input) 3:0V [1:24V (Output) 4:OUT
BL296PB-04F	-	[1:24V 4:OUT
BL296SB-04FS	-	[1:24V 3:0V
BL296XB-04FS	-	[1:24V (Input) 3:0V [4:OUT (Output) 3:0V
BL296PB-04FS	-	[4:OUT 3:0V

While power is supplied, make sure that the above lines are not short-circuited. Short-circuiting the lines may cause a fault of the unit.

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.

CAUTION

The factory-set address is "bit address 255" or "bit address 511," which indicates that an address has not been set.

The factory-set address varies depending on lot No., as follows:

For S/W version "B" or later version: Bit address 511

For S/W version "A" or 3-digit lot No.: Bit address 255

Input and output operations are disabled with the factory-set address.

Example:

Lot No. 19ECBNB

└─ S/W version

[Data Configuration]

BL296SB-04F-4A-20, BL296SB-04FS-4A-20

Address offset	n+3	n+2	n+1	n
Bit input	IN3	IN2	IN1	IN0

*n = Bit address number assigned to this unit

BL296PB-04F-4A-20, BL296PB-04FS-4A-20

Address offset	n+3	n+2	n+1	n
Bit output	OUT3	OUT2	OUT1	OUT0

BL296XB-04F-4A-20, BL296XB-04FS-4A-20

Address offset	n+1	n
Bit input	IN1	IN0
Bit output	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 details	b15	b14	b13	b12	b11	b10	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0
----------------	-----	-----	-----	-----	-----	-----	----	----	----	----	----	----	----	----	----	----

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

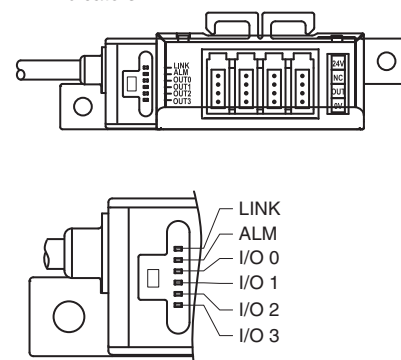
*2 This indication appears when the use of the single unit simplified replacement function fails. (This operation occurs on the S/W version “B” or later version.)

*3 If ID duplication is detected when the master unit executes automatic address recognition, this indication appears.

*4 For S/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.

LED indicators



If an error is indicated, identify a cause of the error by checking lit/flashing status with the table on the left, and eliminate the cause of the error. Once the cause of the error is eliminated, the error indication will be automatically reset.

[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.	<ol style="list-style-type: none"> 1) 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 1.25mm ² 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. <ol style="list-style-type: none"> 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)>

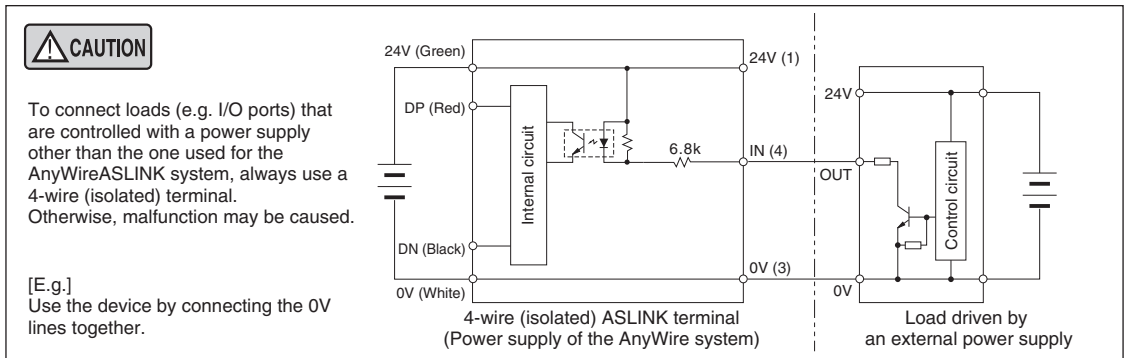
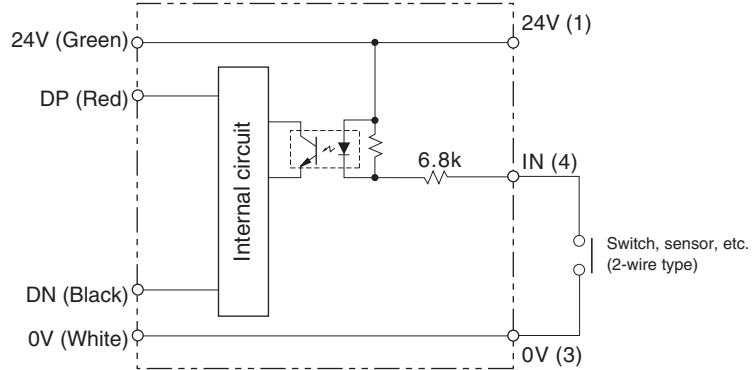
Things to be checked	Remedy
Check the connection of the remote unit.	Defective connections and the like may have caused single unit simplified replacement to fail. Remove the remote unit after replacement, and make connections again. * When two or more replacement remote units are simultaneously connected, 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-04F-4A-20 BL296XB-04F-4A-20 (Input)

<Circuit conditions>

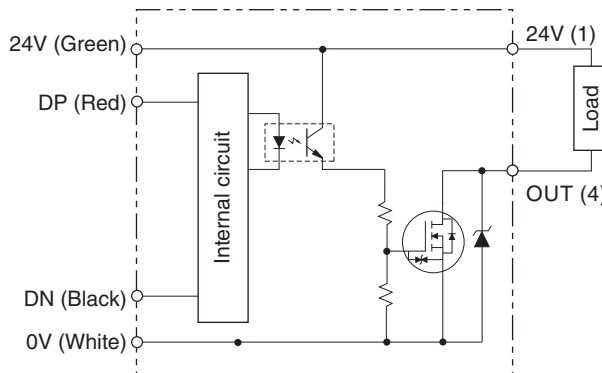
Rated input voltage:	24V DC
Max. switching current:	3.5mA
ON current:	2.2mA or more
OFF current:	1mA or less
ON voltage:	16V or more (24V-IN)
OFF voltage:	8V or less (24V-IN)
Allowable current at 24V:	1A max. (24V-0V) (per terminal)



4-wire (isolated) NPN output BL296PB-04F-4A-20 BL296XB-04F-4A-20 (Output)

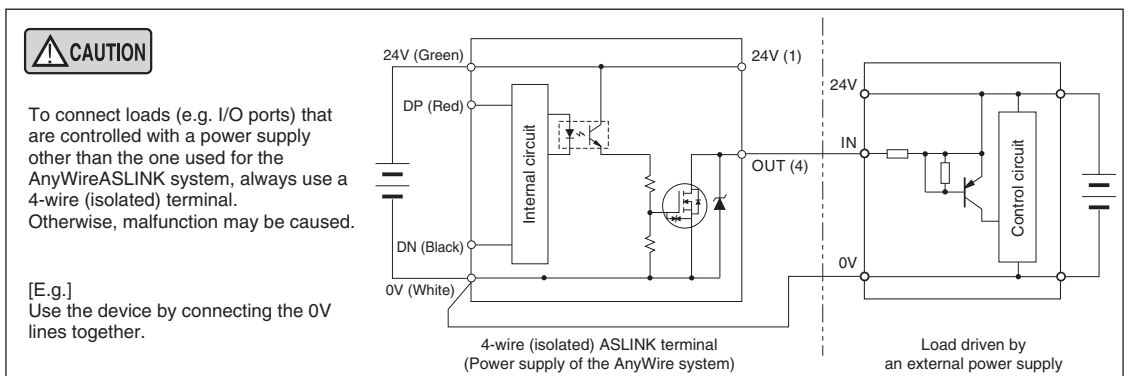
<Circuit conditions>

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



To connect inductive load, use a surge killer.

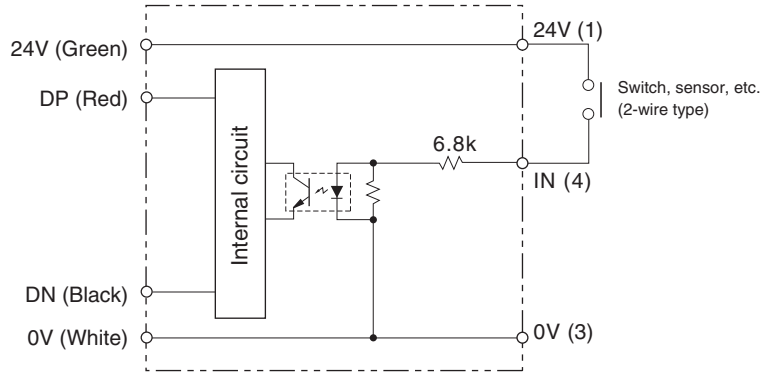
If output is turned ON with the OUT and 24V terminals short-circuited, the output device will be damaged.



4-wire (isolated) PNP input
 BL296SB-04FS-4A-20
 BL296XB-04FS-4A-20 (Input)

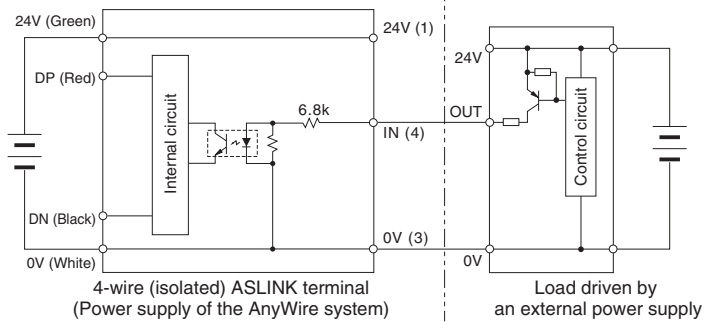
<Circuit conditions>

- 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)
- Allowable current at 24V: 1A max. (24V-0V)
(per terminal)



To connect loads (e.g. I/O ports) that are controlled with a power supply other than the one used for the AnyWireASLINK system, always use a 4-wire (isolated) terminal. Otherwise, malfunction may be caused.

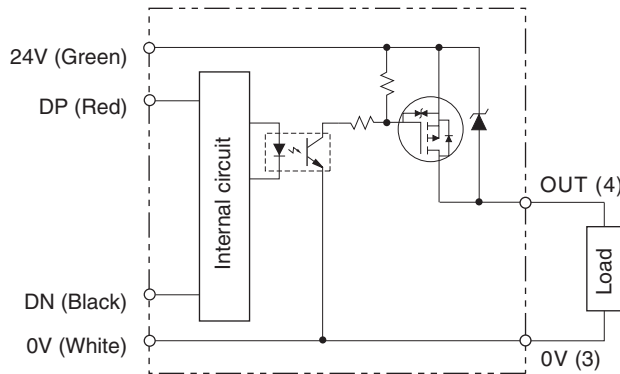
[E.g.]
 Use the device by connecting the 0V lines together.



4-wire (isolated) PNP output
 BL296PB-04FS-4A-20
 BL296XB-04FS-4A-20 (Output)

<Circuit conditions>

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



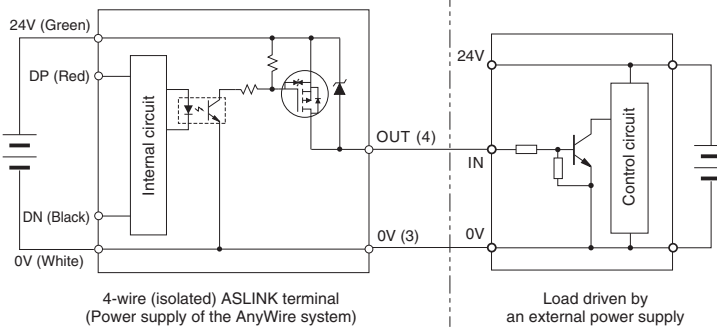
To connect inductive load, use a surge killer.

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



To connect loads (e.g. I/O ports) that are controlled with a power supply other than the one used for the AnyWireASLINK system, always use a 4-wire (isolated) terminal. Otherwise, malfunction may be caused.

[E.g.]
 Use the device by connecting the 0V lines together.



[Specifications]

■ General specifications

Operating ambient temperature/humidity	0 to +55°C / 10 to 90%RH No condensation
Storing ambient temperature/humidity	-25 to +75°C / 10 to 90%RH No condensation
Vibration resistance	Based on JIS B 3502
Shock resistance	Based on JIS B 3502
Atmosphere	No corrosive gas
Operating altitude*1	0 – 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 connection points*3	Number of bit points: 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 function	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

Number of occupied points	BL296SB-04F-4A-20	NPN bit input: 4 points	
	BL296XB-04F-4A-20	NPN bit input: 2 points/ bit output: 2 points	
	BL296PB-04F-4A-20	NPN bit output: 4 points	
	BL296SB-04FS-4A-20	PNP bit input: 4 points	
	BL296XB-04FS-4A-20	PNP bit input: 2 points/ bit output: 2 points	
	BL296PB-04FS-4A-20	PNP bit output: 4 points	
Response time*4	1ms max.		
Detection function	Remote unit voltage drop (DP-DN voltage drop) I/O power supply drop (24V-0V voltage drop)		
Current consumption		Transmission side (DP-DN)	I/O side*5 (24V-0V)
	BL296SB-04F-4A-20	5mA	22mA
	BL296XB-04F-4A-20	5mA	18mA
	BL296PB-04F-4A-20	5mA	8mA
	BL296SB-04FS-4A-20	5mA	22mA
	BL296XB-04FS-4A-20	5mA	18mA
	BL296PB-04FS-4A-20	5mA	8mA
Weight	40g		

*4 Indicates the internal processing time of this unit. The maximum transmission delay time is defined as "this time + bit transmission cycle time × 2."

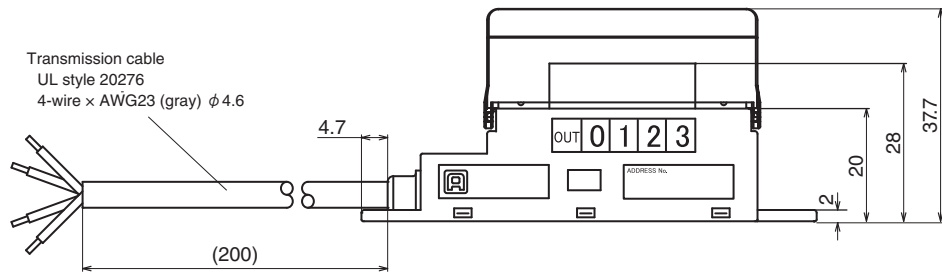
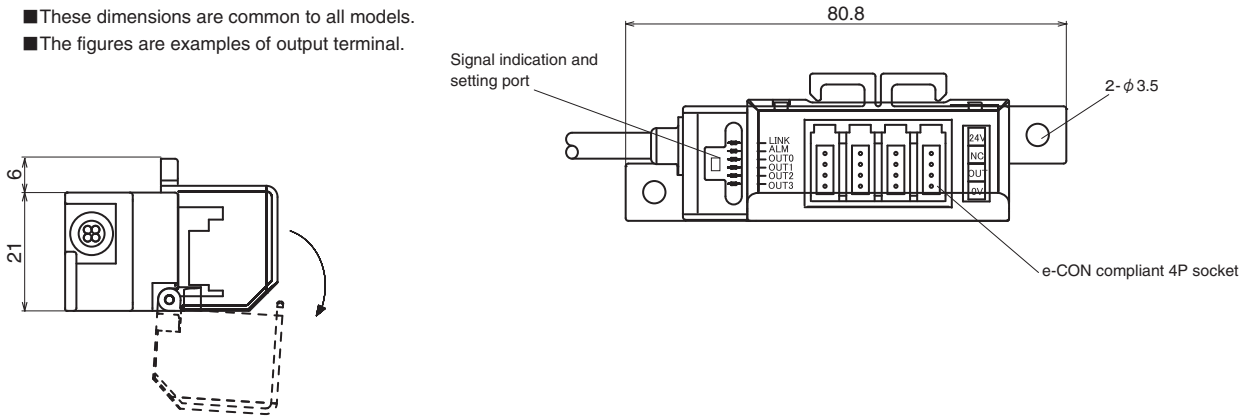
*5 Current consumption for input is a value assumed when all IN-0V pins (NPN) or 24V-IN pins (PNP) are short-circuited. To connect a 3-wire type sensor, add a total current consumption of the sensor.

Current consumption for output is a value assumed when all points are turned ON. Add a total current consumption of load being connected.

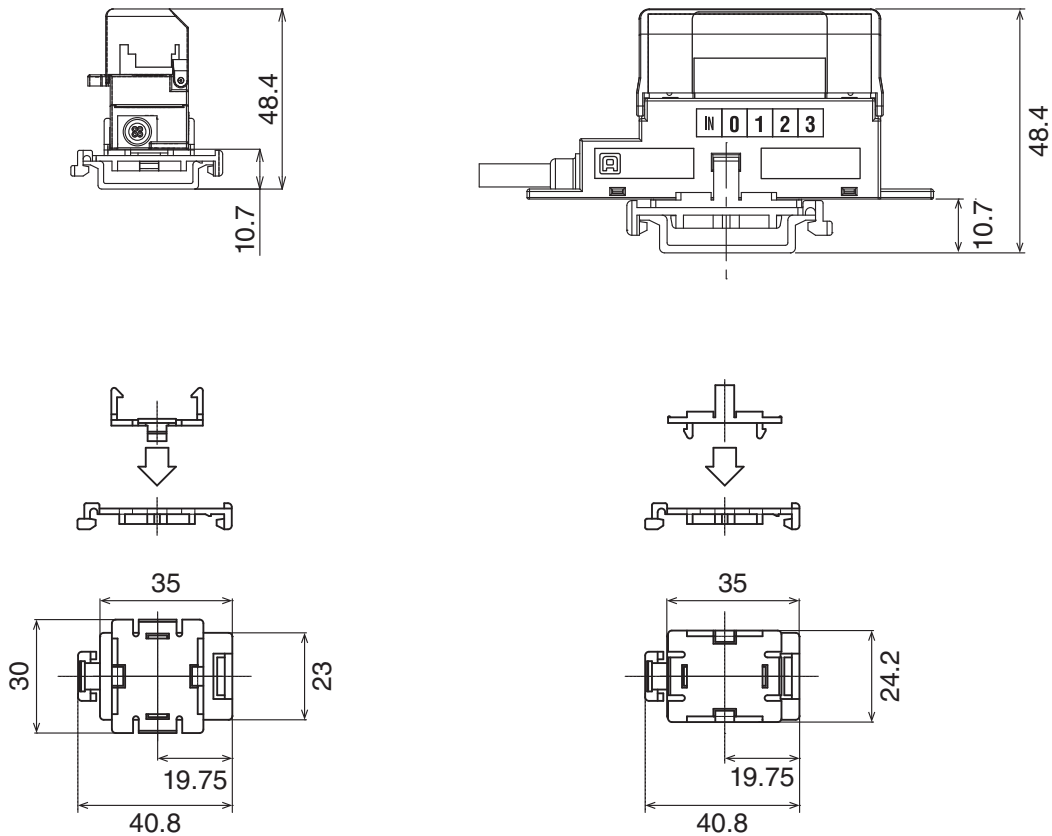
[Outside Dimensions]

Unit: mm

- These dimensions are common to all models.
- The figures are examples of output terminal.



■ ADP-T96 (dedicated DIN rail mounting adaptor)



【中国版RoHS指令】

的产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 [Cr (VI)]	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
安装基板	×	○	○	○	○	○
框架	○	○	○	○	○	○

本表格依据 SJ/T11364 的规定编制。

○：表示该有害物质在该部件所有均质材料中的含量均在 GB/T26572 规定的限量要求以下。

×：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T26572 规定的限量要求。



基于中国标准法的参考规格：GB/T15969.2

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