AnyWireASLINK System Products Guide



ASLINKER

Smartclick

BL287 □ **B-02F** □ -2**D** □ 20



Smartclick is a registered trademark of OMRON Corporation.

Note on use ⇒A separate Address Writer is required to set addresses and other data.
*For more information, refer to [Various Settings] on page 11.

[Type]

BL287SB-02F-2D220	NPN input	
BL287XB-02F-2D220	NPN input/NPN output	
BL287PB-02F-2D220	NPN output	I/O connection M12 (4-pin)
BL287SB-02FS-2D220	PNP input	connector
BL287XB-02FS-2D220	PNP input/PNP output	
BL287PB-02FS-2D220	PNP output	

BL287SB-02F-2D720	NPN input	I/O connection
BL287SB-02FS-2D720	PNP input	M8 (3-pin) connector

BL287SB-02F-2D820	NPN input	
BL287XB-02F-2D820	NPN input/NPN output	I/O connection
BL287SB-02FS-2D820	PNP input	M8 (4-pin) connector
BL287XB-02FS-2D820	PNP input/PNP output	

BL287XB-02F-2D720	NPN input/NPN output	114. 1410 (3-P111)
BL287XB-02FS-2D720	PNP input/PNP output	connector OUT: M8 (4-pin) connector

^{*}For transmission line connections, M12 connectors are used. (Common to all models)

[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 Always turn off the power in installing or replacing 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 units. Doing so may cause a failure.
- O Do not disconnect or reconnect between the transmission line and slave 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 on the delivered Product shall continue to be effective for one (1) year after the delivery thereof to a location as designated by the original owner.
- Scope of warranty
 - Should a defect occur in any part of the Product during the foregoing warranty period when it is used normally in accordance with the specifications described in this Products Guide, the Company shall replace or repair the defect free of charge, except when it arises as a result of:
 - [1] Misuse or abuse of the Product by the owner;
 - [2] Fault caused by other than the delivered Product;
 - [3] The unauthorized modification or repair of the Product by any person other than the Company's personnel;
 - [4] Any unusual force of nature, disaster or other cause beyond the Company's control. The term "warranty," as used herein, refers to the warranty applicable to the delivered product alone. The Company shall not be liable for consequential or incidental damages resulting from any malfunction.
- Repair at cost
 - After the expiration of the warranty period, the owner shall be responsible for all costs and expenses incurred for the troubleshooting and repair of the Product. Even during the warranty term, the Company shall repair any defects arising from causes other than within the scope of the warranty as specified above, at the owner'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:

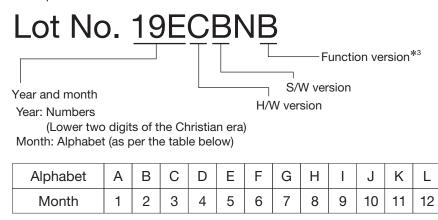
Functions available with Ver. 1.1 Word transmission*1*2
Single unit simplified replacement*1

- *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 slave units. It depends on slave 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 slave units compatible with the word transmission function.

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

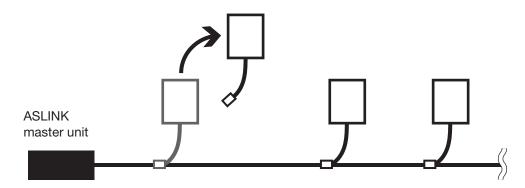
For slave units that handle word data, word address settings are required.

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

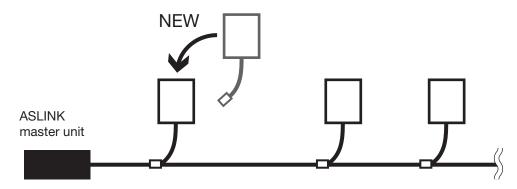
[About Single Unit Simplified Replacement]

During replacement of a slave unit, this function enables automatic settings of address and parameters of the existing slave unit into a new slave unit. (After replacement of the slave 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 slave unit to be replaced.



■ Step 3 Connect a new slave unit.



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

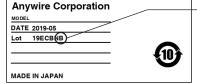


- It is necessary that both the master unit and slave unit should be compatible with the single unit simplified replacement function.
- Before disconnection and connection of the slave unit, be sure to turn OFF the power supply.
- 🤈 For compatibility of a slave unit with the single unit simplified replacement function, see the lot No. and the manual for the slave unit.
- When a slave 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 slave unit before replacement is the same as that after replacement.
- If the model of the slave 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 slave unit for replacement is the factory-set address (bit address 511).
- Several slave units cannot be simultaneously replaced. For replacement of several slave units, conduct the replacement procedure for each unit one by one.
- For a slave 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 slave 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
ASLINKER 4-wire (isolated)	NPN input: 2 points, NPN output: 2 points NPN input: 1 point/NPN output: 1 point		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
cable type Conforming to IP67	PNP input: 2 points, PNP output: 2 points PNP input: 1 point/PNP output: 1 point	General-purpose output devices	0	0	0	0	×	0	×

- *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.

■ Detecting functions (Status details)

Functions				
Slave 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.
Remote address change	Available with lot No. that indicates year and
Single unit simplified replacement	month digits of "15I" or later
Word transmission*4	Available with S/W version "B" or later version
LED indication for single unit simplified replacement function*5	(If lot No. is indicated in 3 digits (year and month only), these functions are not available.)

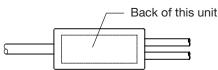
- *4 This terminal can be used in connection to the AnyWireASLINK unit for word transmission. Note that this terminal cannot handle word data by setting a word address.
- *5 The single unit simplified replacement function works even if the lot No. does not support the LED indication for the single unit simplified replacement function. (When the master unit executes the single unit simplified replacement function, addresses/parameters will be written, if specified conditions are satisfied.)

■ How to check

Lot No. is indicated on the lot label.

Example:





[How to Connect AnyWireASLINK]

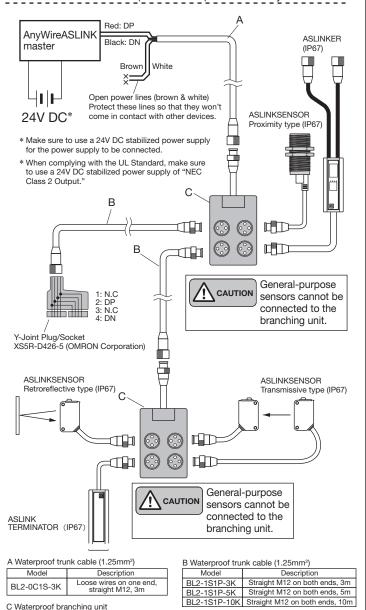
The AnyWireASLINK can employ a two-wire or four-wire terminal selectively depending on the load current. If the load current is small, using a two-wire (non-isolated) terminal allows for achieving simplified wiring without local power supply.

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]

■Connection with 2-wire (non-isolated) terminals only



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

Description

4 ports

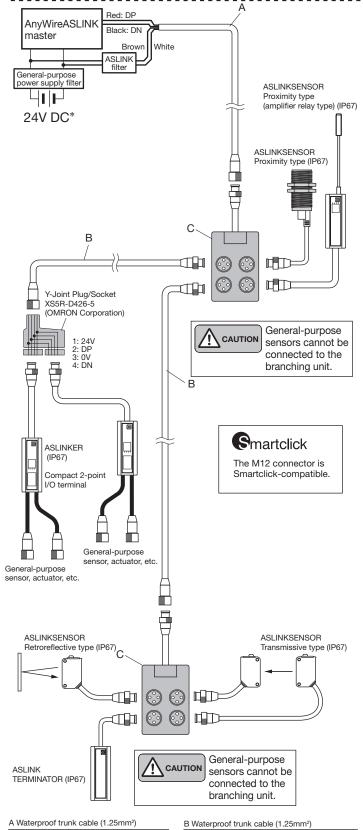
Size of	Supply curre	ent on the transmissi	on line (DP, DN)	
the transmission line (DP, DN)	Total length: 50m or less	Total length: Over 50m, no longer than 100m	Total length: Over 100m, no longer than 200m	
1.25mm ²	MAX 2A	MAX 1A	MAX 0.5A	
0.75mm ²	MAX 1.2A	MAX 0.6A	MAX 0.3A	
0.5mm ²	MAX 0.8A	MAX 0.4A	MAX 0.2A	



BL2109-04-22

- Refer to Table 1 so that the size and length of the transmission line and the allowable supply current lie within an appropriate
- Connect the same symbols (DP, DN) correctly between the AnyWireASLINK master 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) on the transmission line terminal farthest from the AnyWireASLINK master unit.

■Example of mixed installation with 2-wire (non-isolated) and 4-wire (isolated) terminals



A Waterproof trunk cable (1.25mm²)

Model	Description			
BL2-0C1S-3K	Loose wires on one end, straight M12, 3m			

C Waterproof branching unit Mode Description 4 ports 8 ports

Model Description

BL2-1S1P-3K Straight M12 on both ends, 3m BL2-1S1P-5K Straight M12 on both ends, 5m BL2-1S1P-10K Straight M12 on both ends, 10m



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.

[Notes on Use of 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.

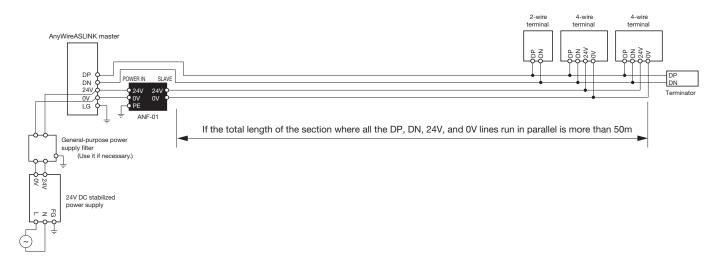
Insert the "ASLINK filter [Type ANF-01]" regardless of installation method and distance when complying with CE Standard.

■ Filter allowable current

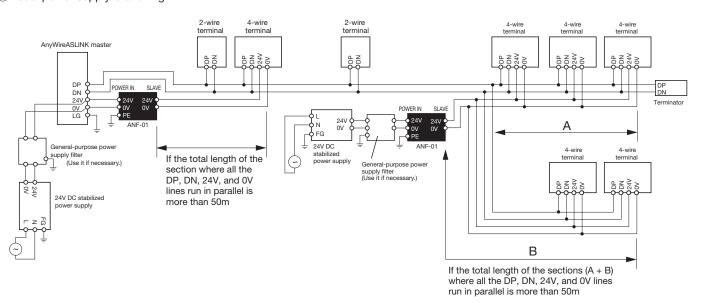
Product	Type	Allowable power current
ASLINK filter	ANF-01	MAX 5A/24V DC
Filter of COSEL Co., Ltd.	EAC-06-472	MAX 6A/24V DC

■ AnyWire Type: ANF-01 Connection example

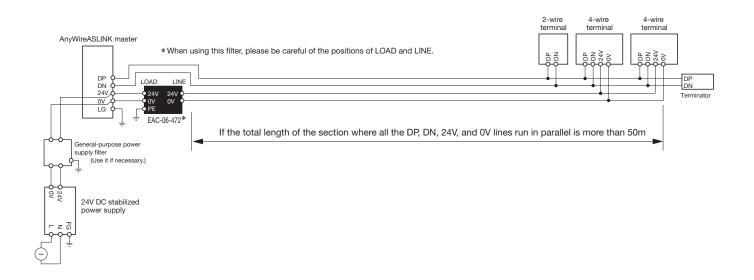
1 Power supply to the entire system ------



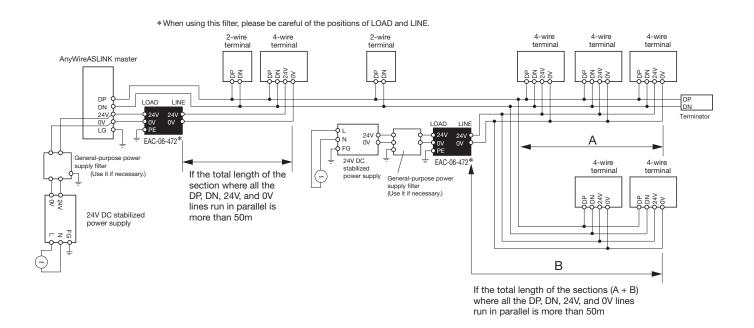
2 Local power supply/branching



1) Power supply to the entire system -----

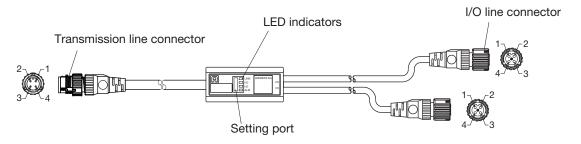


2 Local power supply/branching

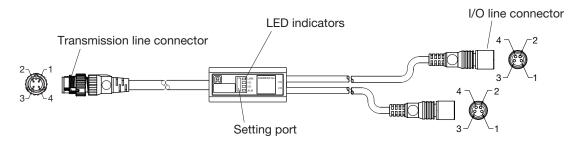


[Name of Each Part]

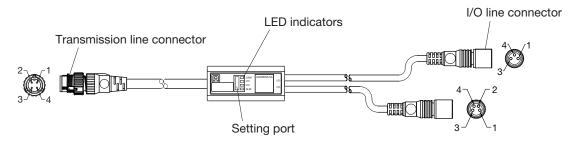
■BL287□B-02F□-2D220

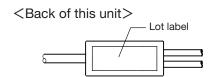


■BL287□B-02F□-2D820



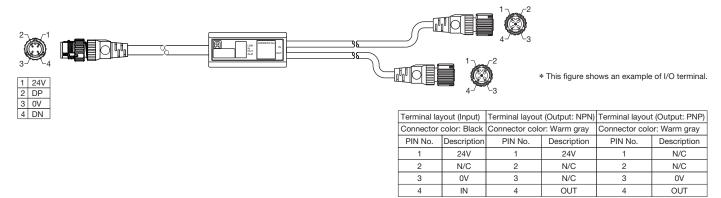
■BL287□B-02F□-2D720

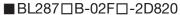


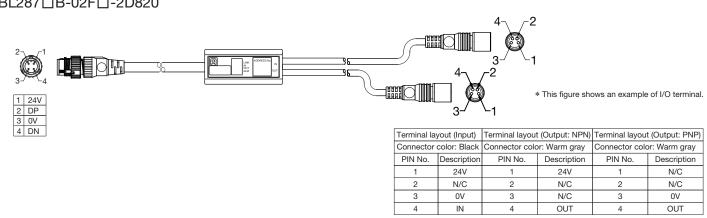


[Pin Assignment]

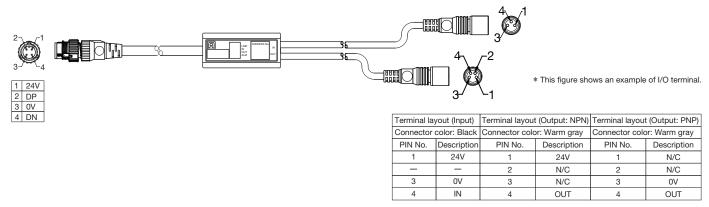
■BL287□B-02F□-2D220



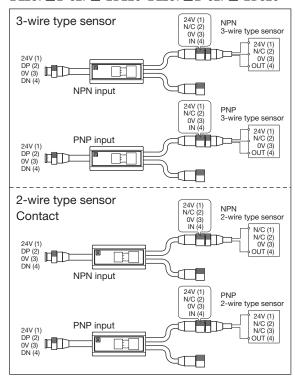


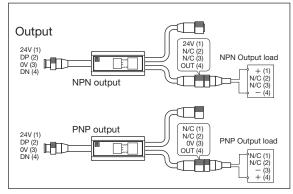


■BL287□B-02F□-2D720



BL287 □ B-02F □ -2D220 • BL287 □ B-02F □ -2D820



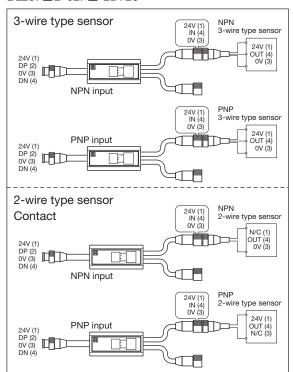


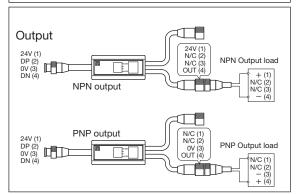
CAUTION To controll the one

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.

BL287 B-02F D-2D720





CAUTION

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.

[Various Settings]

Address setting

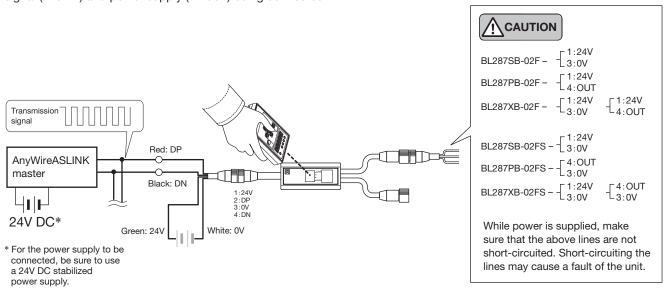
■ Common procedure for address writer operation

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.



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.



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

[Data Configuration] -

BL287SB-02F-2D220, BL287SB-02FS-2D220, BL287SB-02F-2D820, BL287SB-02FS-2D820, BL287SB-02F-2D720, BL287SB-02FS-2D720

Address offset	n+1	n
Bit input	IN1	IN0

*n = Bit address number assigned to this unit

BL287PB-02F-2D220, BL287PB-02FS-2D220

Address offset	n+1	n
Bit output	OUT1	OUT0

BL287XB-02F-2D220, BL287XB-02FS-2D220, BL287XB-02F-2D820, BL287XB-02FS-2D820, BL287XB-02F-2D720, BL287XB-02FS-2D720

Address offset	n
Bit input	IN
Bit output	OUT

■ 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

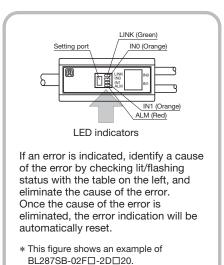
Status	h15	h1/	h12	h10	h11	b10	b9	b8	h7	h6	b5	h/	h2	h2	h1	bΩ	
details	013	D14	סוט	012	ווט	טוט	เมือ	DO	D7	b6	b5	b4	DS	D2	b1	b0	

b0: Slave unit voltage drop (DP-DN-side voltage drop) b5: I/O power supply drop (24V-0V-side voltage drop)

[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 •••••	Slave 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.)



^{*1} This can be used on the master unit having the status detail area. For details, refer to the manual for the master unit.

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

^{*4} When transmission signal and power supply are normally connected and this unit is set to the factory-set address, this indication appears.

[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 slave unit.	If LINK on the master unit is flashing and LINK on the slave 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 slave 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 slave 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 slave 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 slave 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 slave unit.

<ALM is lit>

Things to be checked	Remedy
Check the connection of I/O terminals on the slave unit.	Adjust the voltage of external power supply connected to the I/O side of the slave 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 slave unit.	The address of the slave unit is either unregistered or duplicated. Take the following actions. *The slave unit cannot be used with the factory-set address.
	1) Set an address correctly.
	2) Check if there is a slave 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 slave unit.	Defective connections and the like may have caused single unit simplified replacement to fail. Remove the slave unit after replacement, and make connections again. *When two or more replacement slave units are simultaneously connected, the single unit simplified replacement function does not work.
Check the address of the slave unit.	Check if the address of the replacement slave unit is the same as the address before shipment (a bit address of 511). * If the address of the replacement slave unit is not the same as the address before shipment, the single unit simplified replacement function does not work.
Check the model of the slave unit.	Check if the replacement slave unit is of the same type as that of the slave unit before the replacement.
Check the lot No. of the slave unit.	Check if the function version for the replacement slave unit is older than that of the slave unit before the replacement. * If the function version of the replacement slave 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 BL287SB-02F-2D□20 / BL287XB-02F-2D□20 (Input)

<Circuit conditions>

Rated input voltage: 24V DC

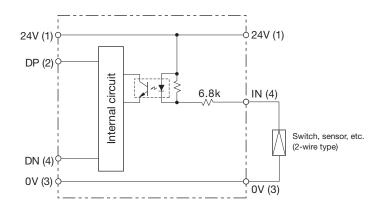
Max. switching current: 3.5mA

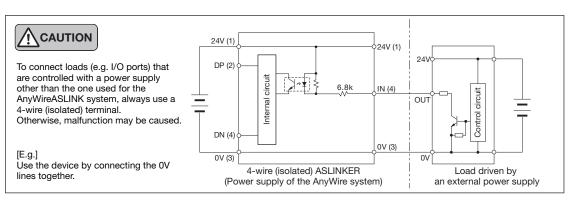
ON current: 2.2mA or more

OFF current: 1mA or less

ON voltage: 16V or more (24V-IN)
OFF voltage: 8V or less (24V-IN)
Allowable current at 24V: 500mA max. (24V-0V)

(per terminal)

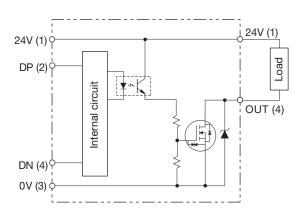




4-wire (isolated) NPN output BL287PB-02F-2D□20 / BL287XB-02F-2D□20 (Output)

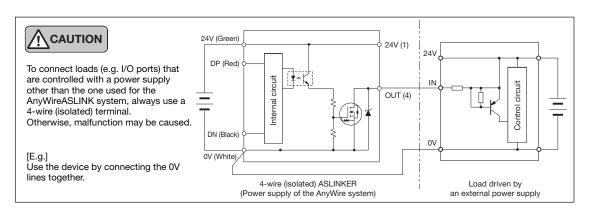
<Circuit conditions>

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 input BL287SB-02FS-2D□20 / BL287XB-02FS-2D□20 (Input)

<Circuit conditions>

Rated input voltage: 24V DC

Max. switching current: 3.5mA

ON current: 2.2mA or more

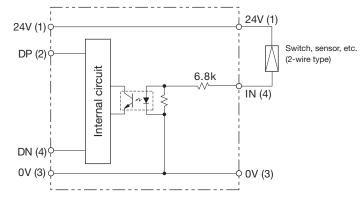
OFF current: 1mA or less

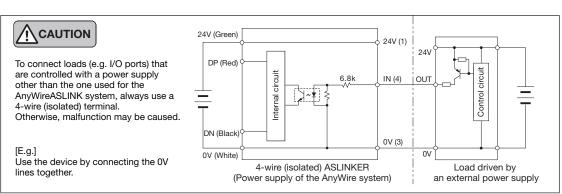
ON voltage: 16V or more (IN-0V)

OFF voltage: 8V or less (IN-0V)

Allowable current at 24V: 500mA max. (24V-0V)

(per terminal)

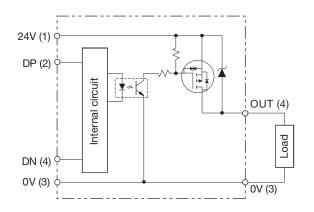




4-wire (isolated) PNP output BL287PB-02FS-2D□20 / BL287XB-02FS-2D□20 (Output)

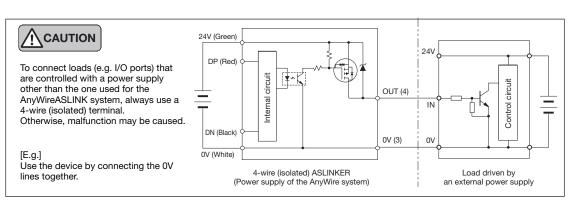
<Circuit conditions>

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	0 – +55°C, 10 – 90%RH No condensation
temperature/humidity	
'	05 7500 40 000/PUN I I'
Storing ambient	-25 – +75°C, 10 – 90%RH No condensation
temperature/humidity	
Vibration resistance	Based on JIS B 3502 and IEC 61131-2
Shock resistance	Based on JIS B 3502 and IEC 61131-2
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

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	512 points max.
	(Input: 256 bits, Output: 256 bits)
	Number of word points:
	1024 words max.
	(Input: 512 words, Output: 512 words)
Number of connection units	Up to 128 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 BL287 □ B-02F □ -2D220

Number of occupied points	BL287SB-02F-2D220 NPN bit input: 2 points BL287XB-02F-2D220 NPN bit input: 1 points, bit output: 1 point				
	BL287SB-02FS-2D220	NPN bit outpu PNP bit input	ut: 2 points : 2 points		
	BL287XB-02FS-2D220 PNP bit input: 1 point, bit output: 1 point BL287PB-02FS-2D220 PNP bit output: 2 points				
			2 points		
Response time*4	1ms max. Slave unit voltage drop (DP-DN voltage drop) I/O power supply drop (24V-0V voltage drop)				
Detection function					
Current consumption	Transmission side (DP-DN) I/O sic				
	BL287SB-02F-2D220	3.4mA	11.2mA		
	BL287XB-02F-2D220	3.5mA	8.0mA		
	BL287PB-02F-2D220	3.8mA	4.7mA		
	BL287SB-02FS-2D220 3.4mA 11.2mA				
	BL287XB-02FS-2D220	3.6mA	8.0mA		
	BL287PB-02FS-2D220	3.8mA	4.7mA		
Weight	45g				

^{*4} Indicates the internal processing time of this unit. The maximum transmission delay time

■Individual specifications BL287□B-02F□-2D820

Number of occupied points	BL287XB-02F-2D820 BL287SB-02FS-2D820	PNP bit input PNP bit input	: 1 point, ut: 1 point : 2 points	
Response time*4	me*4 1ms max.			
Detection function	Slave 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)	
	BL287SB-02F-2D820 BL287XB-02F-2D820 BL287SB-02FS-2D820 BL287XB-02FS-2D820	3.4mA 3.5mA 3.4mA 3.6mA	11.2mA 8.0mA 11.2mA 8.0mA	
Weight	35g	*		

■ Individual specifications BI 287□B-02F□-2D720

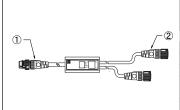
Individual specifications BE207 BB-021 B-20720						
Number of occupied points	BL287XB-02F-2D720 BL287SB-02FS-2D720	PNP bit input PNP bit input	: 1 point, ut: 1 point : 2 points			
Response time*4	1ms max.					
Detection function	Slave unit voltage drop (DP-DN voltage drop) I/O power supply drop (24V-0V voltage drop)					
Current consumption		Transmission side (DP-DN)	I/O side*5 (24V-0V)			
	BL287SB-02F-2D720 BL287XB-02F-2D720 BL287SB-02FS-2D720 BL287XB-02FS-2D720	3.4mA 3.5mA 3.4mA 3.6mA	11.2mA 8.0mA 11.2mA 8.0mA			
Weight	35g					

in the environment where the device is used.

is defined as "this time + bit transmission cycle time \times 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.

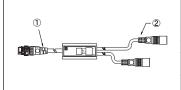
Current consumption for output is a value assumed when all points are turned ON. Add a total current consumption of load being connected.

■Specifications of the cable included in ASLINKER BL287□B-02F□-2D220



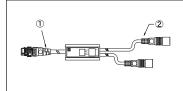
	① Transmission side			② I/O side		
Model	Number of core wires	Core wire size	Connector size	Number of core wires	Core wire size	Connector size
BL287SB-02F-2D220	4	AWG23	2	3		
BL287SB-02FS-2D220					AWG26	M12 (Socket)
BL287PB-02F-2D220				2 Avv	AVVG20	
BL287PB-02FS-2D220						
BL287XB-02F-2D220	4	AWG23		3 (Input)	AWG26	
				2 (Output)		
BL287XB-02FS-2D220				3 (Input)		
				2 (Output)		

■Specifications of the cable included in ASLINKER BL287□B-02F□-2D820



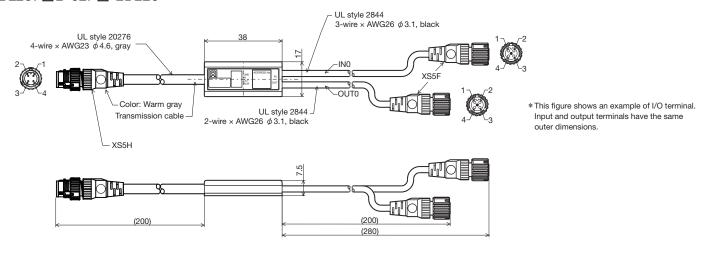
	Transmission side			② I/O side		
Model	Number of core wires	Core wire size	Connector size	Number of core wires	Core wire size	Connector size
BL287SB-02F-2D820 BL287SB-02FS-2D820	4	AWG23		3	AWG26	
BL287XB-02F-2D820	4	AWG23	M12 (Plug)	3 (Input) 2 (Output)	AWG26	M8 (Socket)
BL287XB-02FS-2D820				3 (Input) 2 (Output)		

■Specifications of the cable included in ASLINKER BL287□B-02F□-2D720

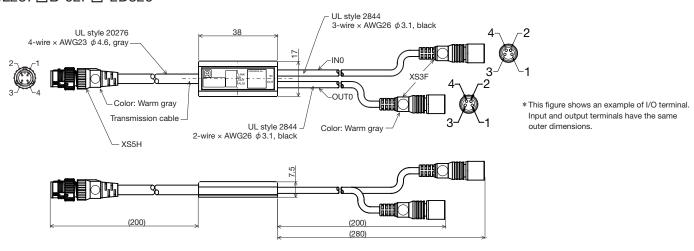


	① Transmission side			② I/O side		
Model	Number of core wires	Core wire size	Connector size	Number of core wires	Core wire size	Connector size
BL287SB-02F-2D720	1	AVA/C00		3	AVA/COC	
BL287SB-02FS-2D720	4	AWG23	M12 (Plug)		AWG26	M8 (Socket)
BL287XB-02F-2D720	4	AWG23		3 (Input) 2 (Output)	AWG26	
DI 007/D 0050 0D700				3 (Input)		
BL287XB-02FS-2D720				2 (Output)		

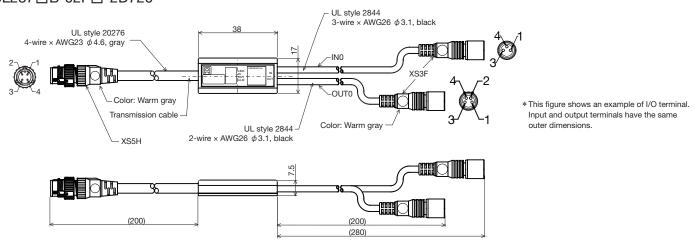
■BL287□B-02F□-2D220

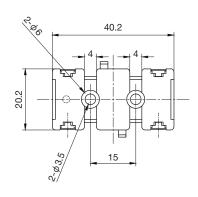


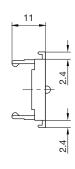
■BL287□B-02F□-2D820

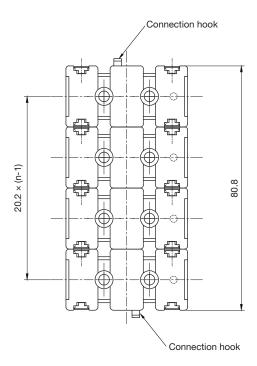


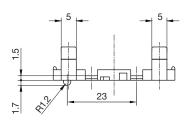
■BL287□B-02F□-2D720

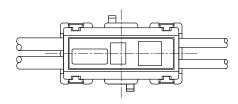


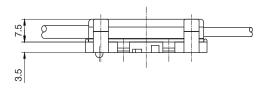












[Directive on Waste Electrical and Electronic Equipment (WEEE)]



Note: This symbol mark is for EU countries only. This symbol mark is according to the directive 2012/19/ EU Article 14 Information for users and Annex IX.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

[Address] -

Anywire Anywire Corporation

Headquarters :1 Babazusho, Nagaokakyo-shi, Kyoto 617-8550 JAPAN

Contact :Contact by mail

info_e@anywire.jp http://www.anywire.jp :Contact by website

> Printed in Japan 2016,2017,2018,2019,2020,2023 UMA-15540AH-EN b