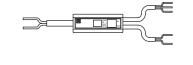
# AnyWireASLINK System Products Guide

**Ver.1.1** 

# ASLINKER

# B281 B-02U -CC20



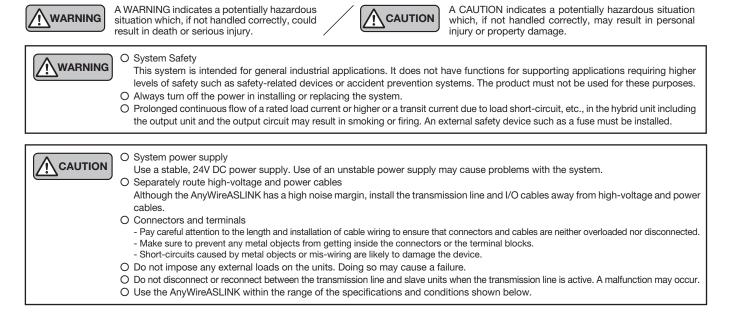
■ Note on use ⇒A separate Address Writer is required to set addresses and other data. \* For more information, refer to [Various Settings] on page 9.

## [Type] -

B281SB-02U-CC20	NPN input	B281SB-02US-CC20	PNP input
B281XB-02U-CC20	NPN input/NPN output	B281XB-02US-CC20	PNP input/PNP output
B281PB-02U-CC20	NPN output	B281PB-02US-CC20	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.



# [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] -



- $\ast 1$  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
Functions available with ver. 1.1	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.

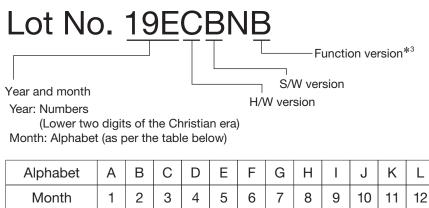
To handle word data, word address settings are required for slave units.

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:



"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 slave units compatible with the word transmission function.

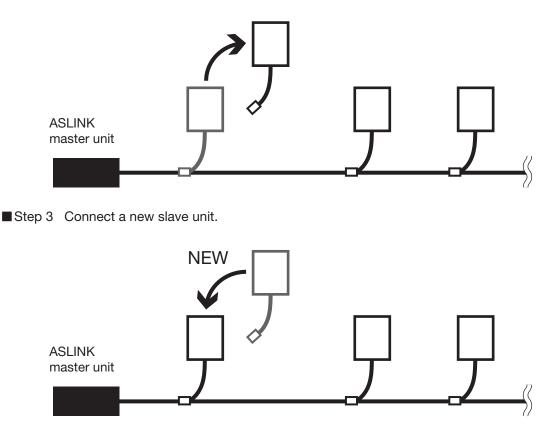
A slave unit incompatible with the word transmission function cannot be connected to the AnyWireASLINK system to conduct word transmission.

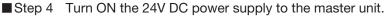
For slave units that handle word data, word address settings are required.

# [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.





<ul> <li>Before disconnection and connection of the</li> <li>For compatibility of a slave unit with the sing</li> <li>When a slave unit of a new function version function cannot be used.</li> <li>Operation is enabled in the case where the is address and parameter settings.</li> <li>Operation is enabled in the case where the is several slave units cannot be simultaneousl each unit one by one.</li> <li>For a slave unit incompatible with the single writer as in the conventional manner.</li> <li>For details of the single unit simplified replace is in the conventional manner.</li> </ul>	It slave unit should be compatible with the single unit simplified replacement function. a slave unit, be sure to turn OFF the power supply. gle unit simplified replacement function, see the lot No. and the manual for the slave unit. is replaced with that of an old function version, the single unit simplified replacement model of the slave unit before replacement is the same as that after replacement. ment is different from that after replacement, a model mismatching error occurs, disabling address of the slave unit for replacement is the factory-set address (bit address 511). It y replaced. For replacement of several slave units, conduct the replacement procedure for a unit simplified replacement function, set an address and parameters by using the address cement function (limitations, conditions, etc.), refer to the manual for the master unit. by tabel. y vary depending on the product model and lot No.
Anywire Corporation	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.
Function version information is given on the loc * The design and contents of the lot label may Anywire Corporation MODEL DATE 2019-05 Lot 19ECB (B) (D)	y 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→B→C). When a slave unit of a new function version is replaced with that of an old function version,

# [Functions]

#### Function list

Model	Specifications	Connection targets			Func	tions			Add	ress
ASLINKER	NPN input: 2 points, NPN output: 2 points	General-purpose	Bit	*1*2 Word	*1*3 Single unit	*1*3 Remote	Detection of discon	sensor cable nection	Bit address	Word address
2-wire (non-isolated)	NPN input: 1 point/output: 1 point PNP input: 2 points, PNP output: 2 points PNP input: 1 point/output: 1 point	General-purpose output devices	transmission	transmission	simplified replacement	address change	2-wire type sensor	3-wire type sensor	setting	setting
cable type			0	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	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.

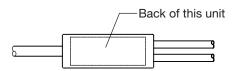
Function	Lot No.				
Remote address change	Available with lot No. that indicates year and				
Single unit simplified replacement	month digits of "15J" or later				
Word transmission <sup>*4</sup>	Available with S/W version "B" or later version				
LED indication for single unit simplified replacement 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:

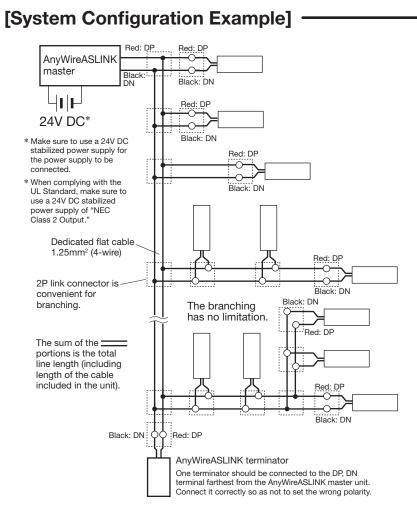


Lot No. 19ECBI H/W version S/W version Function version -

# [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.

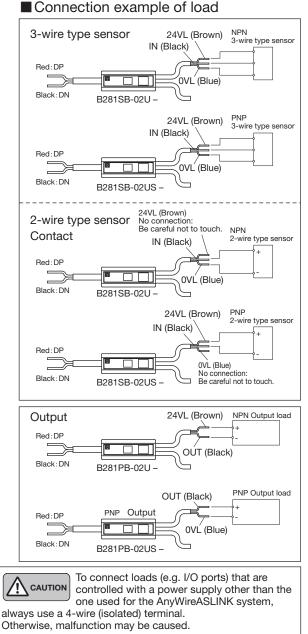


#### Relationship between the size and length of the transmission line and the supply current (Table 1)

Size of	Supply current on the transmission 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 <sup>2</sup>	MAX 2A	MAX 1A	MAX 0.5A						
0.75mm <sup>2</sup>	MAX 1.2A	MAX 0.6A	MAX 0.3A						
0.5mm <sup>2</sup>	MAX 0.8A	MAX 0.4A	MAX 0.2A						

### 

- 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 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 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.

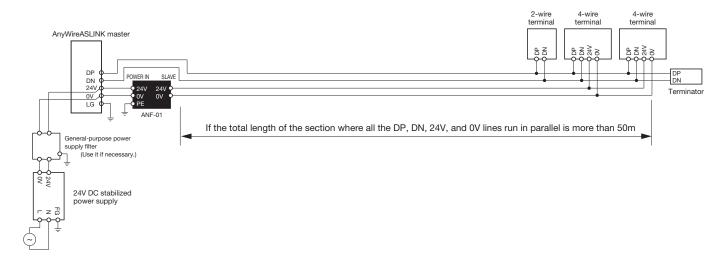
Insert the "ASLINK filter [Type ANF-01]" regardless of installation method and distance when complying with CE Standard.

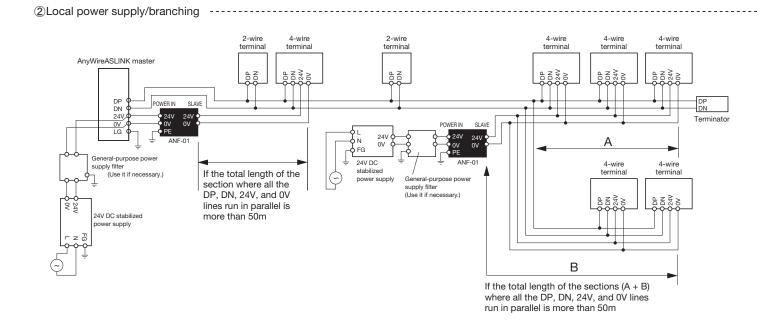
#### Filter allowable current

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

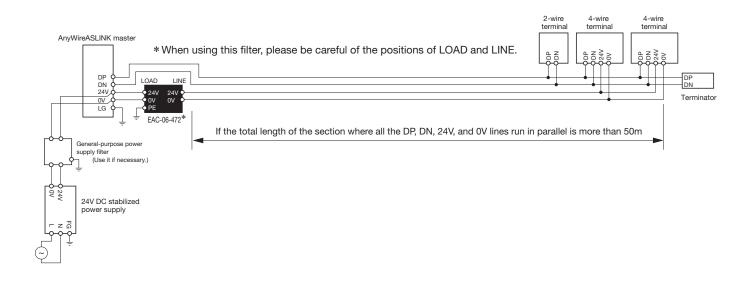
#### AnyWire Type: ANF-01 Connection example

①Power supply to the entire system



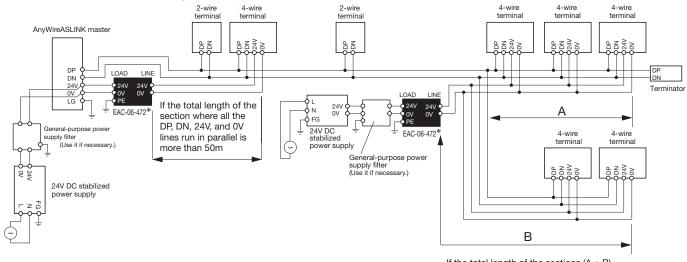


① Power supply to the entire system



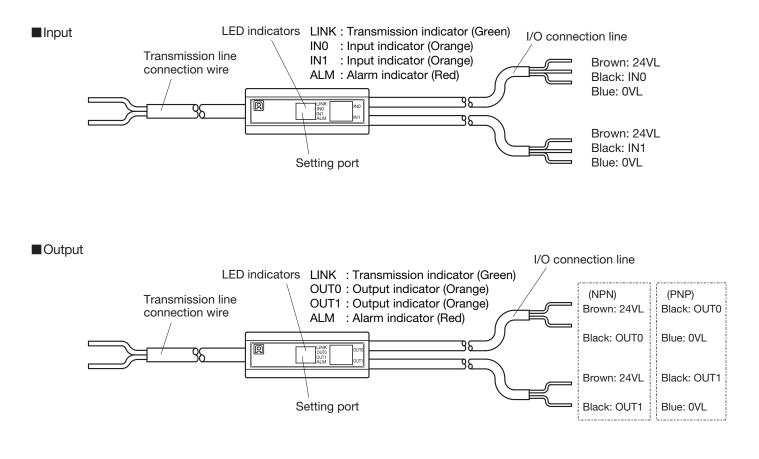
② Local power supply/branching -----

\* When using this filter, please be careful of the positions of LOAD and LINE.

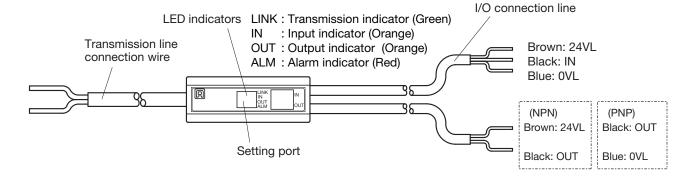


If the total length of the sections (A + B) where all the DP, DN, 24V, and 0V lines run in parallel is more than 50m

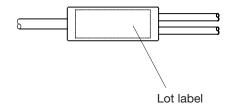
# [Name of Each Part] ·



Input/output mixed



\* The lot label is attached to the back of the unit.



# [Various Settings]

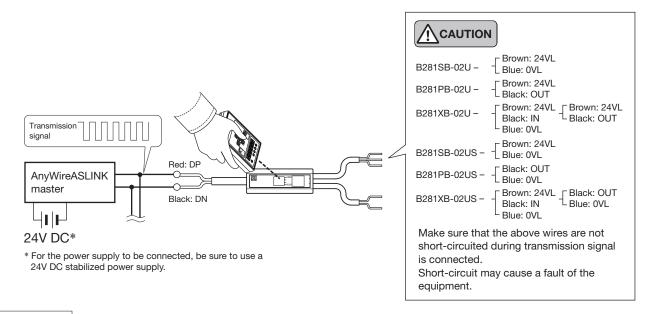
Address setting

Parameter setting

Common procedure for address writer operation

Be sure to connect to the AnyWireASLINK master unit to use. An address writer ARW-04 (Ver. 04-1.01 or later version) or ARW-03 (Ver. 2.10 or later version) is required for operation. For the details of the operating method, refer to the product guide of the address writer.

Connect this unit to the AnyWireASLINK master unit. Perform the setting using the address writer with the transmission signal (DP, DN) supplied.



#### 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 nput and output operations are disabled with the factory-set address.
Exa	imple:
	Lot No. 19ECBNB

#### Disconnection monitoring function setting [Equipment parameter 1]

This parameter is used to specify whether the I/O cable disconnection detecting function is enabled or disabled.

Variable	Description	
0	I/O disconnection detection and short-circuit detection are disabled.	
1	I/O disconnection detection and short-circuit detection are enabled.	Factory setting: 0

#### Operation modes available with each model

Model			Detection of I/O disconnection								Short-circuit detection		
		2-wire type sensor		3-wire type sensor		Load			Power supply	Load			
		0VL	IN	24VL	0VL	IN	24VL	0VL	OUT	24VL	0VL-24VL	0VL-OUT	OUT-24VL
B281SB-02U-CC20		0	0	-	0	×	0	_	_	-	0	_	-
B281PB-02U-CC20	NPN	-	-	-		-	-	-	0	0		_	0
B281XB-02U-CC20		0	0	-	0	×	0		0	0	0	—	0
B281SB-02US-CC20		-	0	0	0	×	0	_	-	_	0	-	-
B281PB-02US-CC20	PNP	_	_	_	_	_	_	0	0	_	_	0	_
B281XB-02US-CC20		-	0	0	0	×	0	0	0	_	0	0	_

I/O disconnection detecting current

Input: When sensor's circuit current is 0.35mA or less, it is judged as disconnection.

Output: When load current in output-ON status is 2mA or less, it is judged as disconnection.

# [Data Configuration] -

#### B281SB-02U-CC20, B281SB-02US-CC20

Address offset	n+1	n
Bit input	IN1	IN0

#### B281XB-02U-CC20, B281XB-02US-CC20

Address offset	n
Bit input	IN0
Bit output	OUT0

#### Status details

The contents of an alarm detected with this unit can be checked with the "status detail area<sup>\*1</sup>" 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	b14	h12	h10	h11	b10	b9	b8	h7	<b>b6</b>	b5	b/	h2	h2	h1	b0
details	CIC	014	013	012	DII	010	09	00	07	D6	05	b4	03	02		00

b0: Slave unit voltage drop (DP-DN-side voltage drop)

b2: I/O disconnection

b3: I/O short-circuit

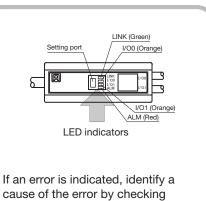
\*1 This can be used on the master unit having the status detail area. For details, refer to the manual for the master unit.

#### \*n = Bit address number assigned to this unit B281PB-02U-CC20, B281PB-02US-CC20

Address offset	n+1	n
Bit output	OUT1	OUT0

# [Monitor Display]

LED name	Display status	Description
LINK	Lit 📃	Transmission signal error Model mismatching error <sup>*1</sup>
(Green)	Flashing	Transmission signal received
	Unlit	No transmission signal (disconnection and reverse connection of DP and DN lines included)
	Lit 📃	I/O disconnection, I/O short-circuit
ALM (Red)	Flashing	Slave unit voltage drop Model mismatching error <sup>*1</sup>
	Unlit	No ALM available
LINK ALM	Alternate flashing LINK ALM	ID duplicated*2 or ID unregistered*3
LINK ALM		Model mismatching error*1
I/O	Lit 📃	ON*4
(Orange)	Unlit	OFF
	ALM LINK I/O	When I/O flashes in synchronization with LINK while ALM is lit, it indicates I/O disconnection.



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.

\*1 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.)

\*2 This error is detected by executing automatic address recognition with master unit.
\*3 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.

\*4 This unit does not operate with the factory-set address.

# [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.	<ol> <li>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.</li> <li>* If LINK is lit while ALM is flashing, it means a failure in single unit simplified replacement.</li> </ol>		
	<ol> <li>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.</li> </ol>		
	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	When IN flashes in synchronization with LINK while ALM is lit, the unit has I/O disconnection.
on the slave unit.	If only ALM is lit, the unit has I/O short-circuit or I/O voltage drop.
	<ol> <li>Make sure that the slave unit I/O line and load are normally connected. Use caution about disconnection of the wiring and insufficient screw tightening.</li> </ol>
	<ol> <li>To connect a mechanical contact (relay, switch, etc.) as load, OFF signal cannot be differentiated from disconnection. In this case, set the equipment parameter for the disconnection detecting function to OFF.</li> </ol>
	<ol> <li>Check wiring of the slave unit terminals to ensure that the connected load meets the power supply and output specifications of ASLINER, and adjust it as required.</li> </ol>
	4) Adjust the power supply voltage of an external power source connected to the slave unit I/O line, so that the power supply voltage does not exceed the rated voltage range (21.6V to 27.6V). Make sure that wires of the transmission line do not touch each other. Check for incorrect wiring of the terminals.

#### <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 <sup>2</sup> 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>

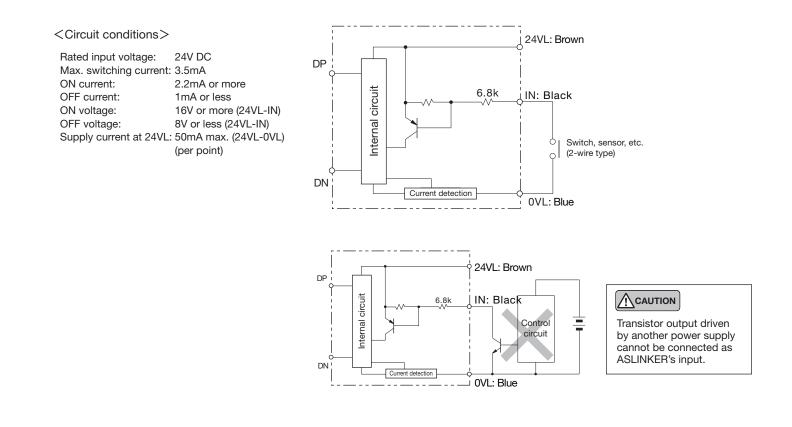
Things to be checked	Remedy
Check the address of the slave unit.	The address of the slave unit is either unregistered or duplicated. Take the following actions. * The slave unit cannot be used with the factory-set address.
	1) Set a bit address correctly in a range of 0 to 254.
	2) Check if there is 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)>

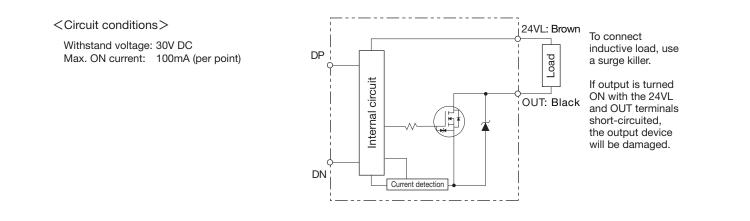
Things to be checked	Remedy
Check the connection of the slave unit.	Defective connections and the like may have caused single unit simplified replacement to fail. Remove the slave unit after replacement, and make connections again. *When two or more replacement slave units are simultaneously connected, 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] ·

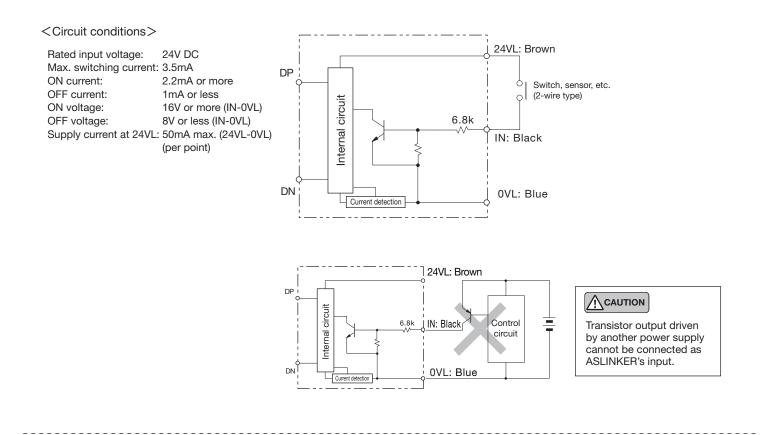
#### 2-wire (non-isolated) NPN input B281SB-02U-CC20 / B281XB-02U-CC20 (Input)



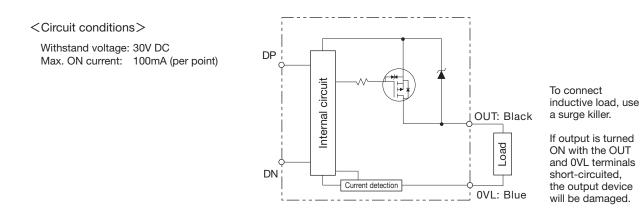
#### 2-wire (non-isolated) NPN output B281PB-02U-CC20 / B281XB-02U-CC20 (Output)



#### 2-wire (non-isolated) PNP input B281SB-02US-CC20 / B281XB-02US-CC20 (Input)



#### 2-wire (non-isolated) PNP output B281PB-02US-CC20 / B281XB-02US-CC20 (Output)



# [Equipment Parameter and Its Setting] -

Equipment parameter	Setting item	Description	Variable	Description
	Disconnection monitoring function	Used to specify whether the I/O cable disconnection detecting function is	0000	I/O disconnection detection and short-circuit detection disabled
I	setting	enabled or disabled. Factory setting: 0000	0001	I/O disconnection detection and short-circuit detection enabled

Individual specifications

B281SB-02U-CC20

B281XB-02U-CC20

B281PB-02U-CC20

1ms max.

I/O disconnection

B281SB-02U-CC20

B281XB-02U-CC20

B281PB-02U-CC20

B281SB-02US-CC20

B281XB-02US-CC20

B281PB-02US-CC20

\*4 Indicates the internal processing time of this unit. The maximum transmission delay

\*5 For input, the above values are assumed when all IN-0VL pins (NPN) or 24VL-IN pins

To connect a 3-wire type sensor, add a total current consumption of the sensor. For output, the above values are assumed when all points are turned ON. Add a total

15g

current consumption of load being connected.

time is defined as "this time + bit transmission cycle time × 2."

I/O short-circuit

NPN bit input: 2 points

NPN bit input: 1 point/ bit output: 1 point

NPN bit output: 2 points

bit output: 1 point

Transmission side\*5

(DP-DN)

15.4mA

10.5mA

5.5mA

13.5mA

10.1mA

6.5mA

B281SB-02US-CC20 PNP bit input: 2 points B281XB-02US-CC20 PNP bit input: 1 point/

B281PB-02US-CC20 PNP bit output: 2 points

Slave unit voltage drop (DP-DN voltage drop)

Number of

occupied points

Response time\*4

Detection

function

Current

Weight

(PNP) are short-circuited.

consumption

# [Specifications] ·

General	specifications

Operating ambient temperature/humidity	0 – +55°C, 10 – 90%RH No condensation
Storing ambient temperature/humidity	-25 – +75°C, 10 – 90%RH No condensation
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 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

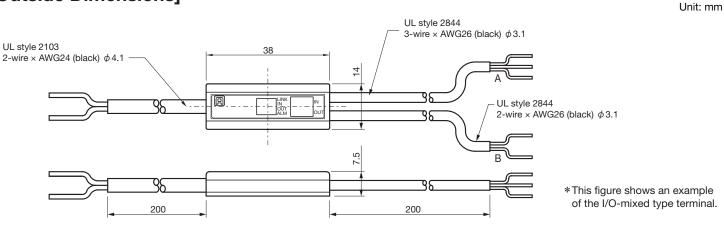
Service power supply voltage	24V DC +15% to -10% (21.6 to 27.6V DC) with a ripple of 0.5Vp-p or less
Transmission method	DC power supply superimposed total frame/cyclic method
Synchronization method	Frame/bit synchronization method
Transmission procedure	AnyWireASLINK protocol
Connection mode	Bus type (Multi-drop method, T-branch method, Tree branch method)
Number of	Number of bit points: 512 points max.
connection points*3	(Input: 256 bits, Output: 256 bits)
	Number of word points: 1024 words max.
	(Input: 512 words, Output: 512 words)
	Up to 128 units
Number of connection units	Detection of transmission line disconnection,
RAS function	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.

#### Specifications of the cable included in ASLINKER

	Model	①Transmission side				<li>②Input side</li>				
		Signal name	Number of core wires	Core wire size	Core wire sheath outer diameter	Signal name	Number of core wires	Core wire size	Core wire sheath outer diameter	
	B281SB-02U-CC20 B281SB-02US-CC20	DP (Red)	d)	2 AWG24	¢1.5mm	IN(Black), 24VL(Brown), 0VL(Blue)	3	3 2 AWG26	¢1.0mm	
	B281PB-02U-CC20	DN (Black)	2			OUT(Black), 24VL(Brown)	2			
	B281PB-02US-CC20					OUT(Black), 0VL(Blue)	2			
			· /   2	AWG24	¢1.5mm	IN(Black), 24VL(Brown), 0VL(Blue)	3	AWG26	¢1.0mm	
		DP (Red) DN (Black)				OUT(Black), 24VL(Brown)	_			
	B281XB-02US-CC20					IN(Black), 24VL(Brown), 0VL(Blue)	3			
* The figure shows an example of B281XB.						OUT(Black), 0VL(Blue)	2			

# [Outside Dimensions]

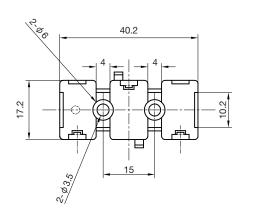


5

1.5

1.7

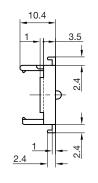
\$1).<sup>2</sup>

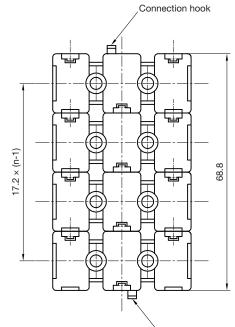


F

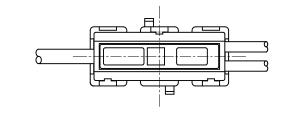
23

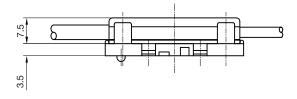
5





Connection hook





# [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.

# 【中国版RoHS指令】·

	有害物质					
部件名称	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	×	0	0	0	0	0
框架	0	0	0	0	0	0

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

### [Address] -

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Printed in Japan 2013,2014,2016,2017,2018,2019,2020,2023 UMA-08717AP-EN\_a