AnyWireASLINK System Products Guide

ASLINKSENSOR

BS-K1217-M□□-1K

[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 indicates a potentially hazardous situation which, if not handled orrectly, could result in death or serious injury.
	CAUTION indicates a potentially hazardous situation which, if not handled orrectly, 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 before attempting to mount or replace. 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.
CAUTION	 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, keep the transmission lines and I/O cables away from high-voltage and power cables. O Connectors and terminals Pay careful attention to the cable length and how to fix the cable so as to avoid stress on the connector and connected cable, and prevent removal even if they are stressed. 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. Do not disconnect or reconnect between the transmission line and slave units. 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 acordance with the specifications described in this User's Manual, 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.

[Type] ·

Bit OperationAnyWireASLINK

proximity sensor: Amplifier built-in, non-shield type, nickel plating

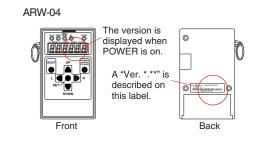
BS-K1217-M08-1K	M08
BS-K1217-M12-1K	M12
BS-K1217-M18-1K	M18
BS-K1217-M30-1K	M30

[Function]

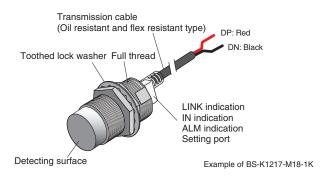
Model	ASLINK SENSOR 2-wire type (not-insulated)
Detection method	Inductive type
	Sensitivity adjustment value (threshold value)
	Hysteresis
	Alarm judgment value
Function	Alarm judgment time
1 difetion	Normally open/normally close
	Delay timer
	Slave unit voltage drop
	Sensing level drop

[Items in Package]

- * Purchase the mounting fixture separately if required.
- * "Address writer ARW-04(Ver04-101 or higher) or ARW-03(Ver2.10 or higher)" is required for setting to the main body. Prepare it together.



[Name of each part]



[How to connect AnyWireASLINK]

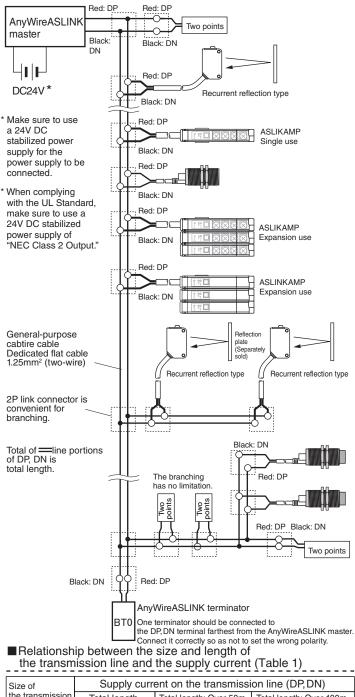
The AnyWireASLINK can employ a two-wire or four-wire terminal selectively depending on the load current.

This Products Guide describes a two-wire (non-isolated) terminal. 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. In the case of hybridization, refer to the Four-Wire (Isolated) Terminal Products Guide separately.

[Connection example] •

Connection with 2-wire type (not-insulated) terminal only

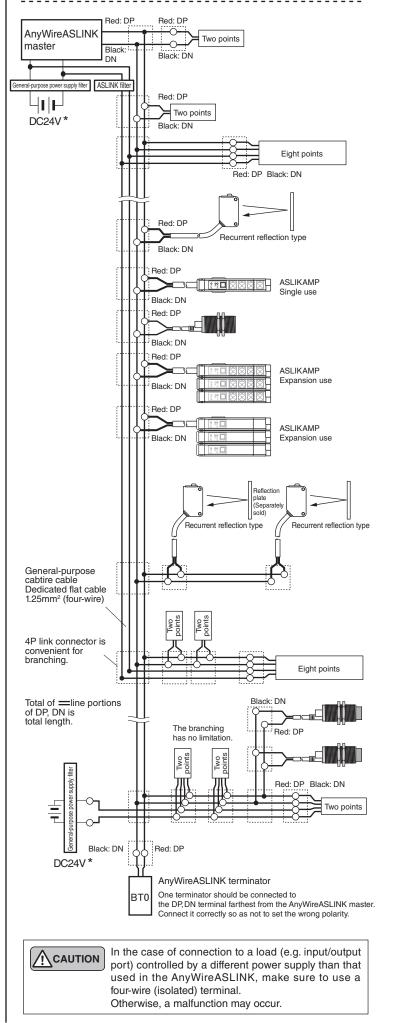


Size of	Supply current on the transmission line (DP, DN)						
the transmission line (DP, DN)	Total length 50m or less	Total length: Over 50m, no longer than 100m	Total length: Over 100m, no longer than 200m				
1.25mm ²	MAX 2A	MAX 1A	MAX 0.5A				
0.75mm ²	MAX 1.2A	MAX 0.6A	MAX 0.3A				
0.5mm ²	MAX 0.8A	MAX 0.4A	MAX 0.2A				
Саитю	 Refer to Table sion line and 		l length of the transmis- rrent lie within an appro-				

sion line and the allowable supply current lie within an appropriate range. 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 "BT0 (polar)" to the terminal on the
- transmission line farthest from the AnyWireASLINK master.

Example of mixture of 2-wire type (not-insulated) and 4-wire type (insulated) terminals



[Notes on Combined Use with 4-wire Type (Insulated) Terminal]

If any of the side-by-side lines of DP, DN, 24V and 0V exceeds the total length of 50m in a power supply system to be supplied, serially connect the "ASLINK filter [Type ANF-01]" or "filter of COSEL Co., Ltd. [Type EAC-06-472]" to 24V and 0V in the starting position of the side-by-side lines.

This will improve noise resistance, reduce the impact of crosstalk by transmission signals and stabilize the signals.

In any case of power supply to the entire system from the master driving power supply or power supply from the local power supply, insert a filter.

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

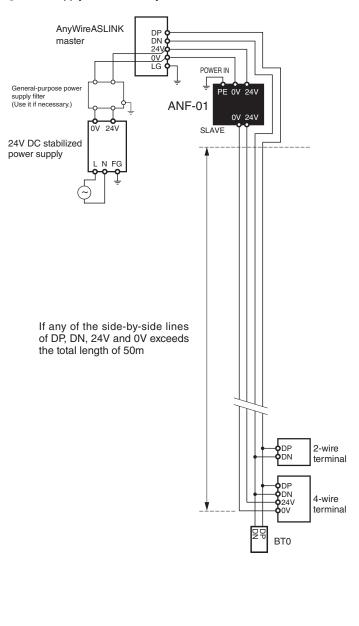
Filter allowable power current

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

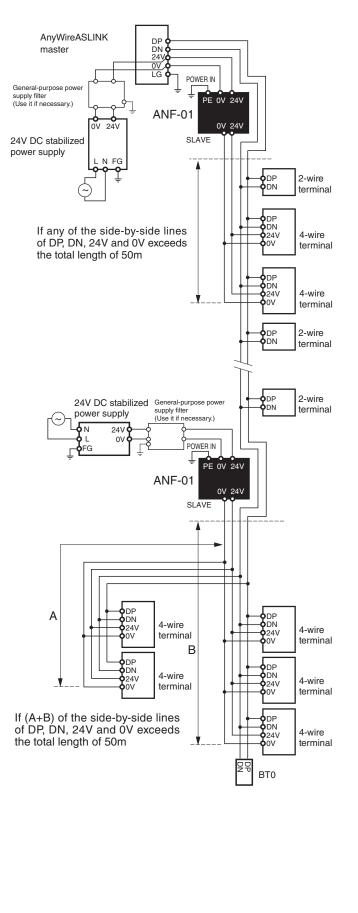
■AnyWire Type: ANF-01 Connection example

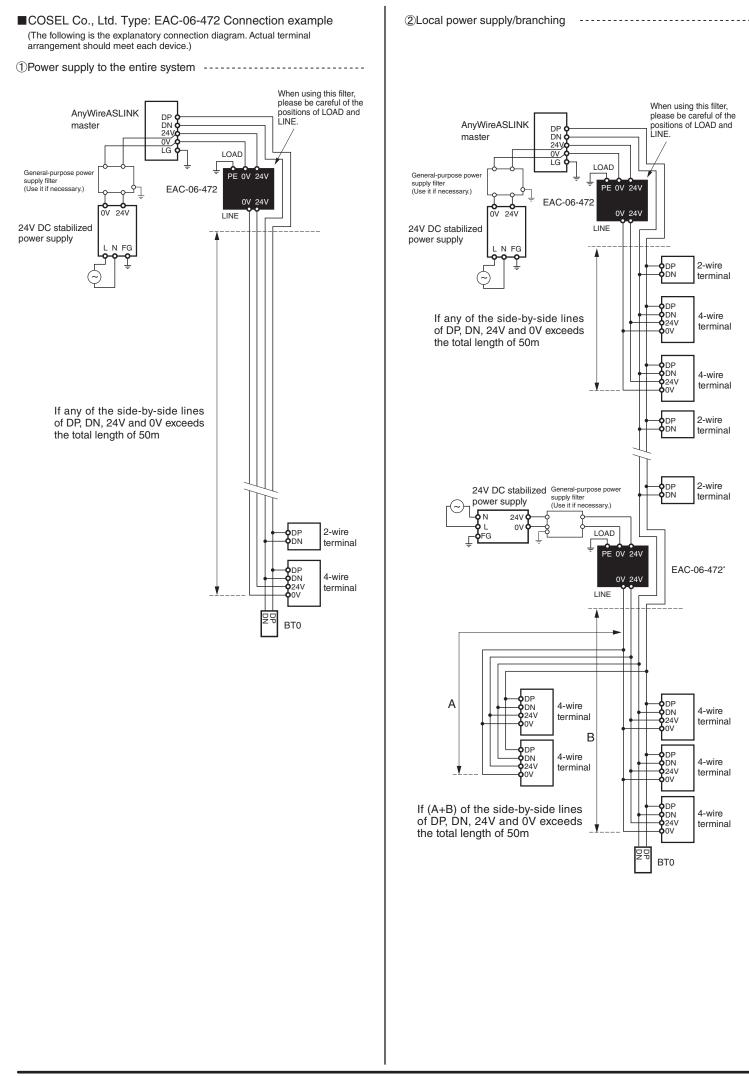
(The following is the explanatory connection diagram. Actual terminal arrangement should meet each device.)

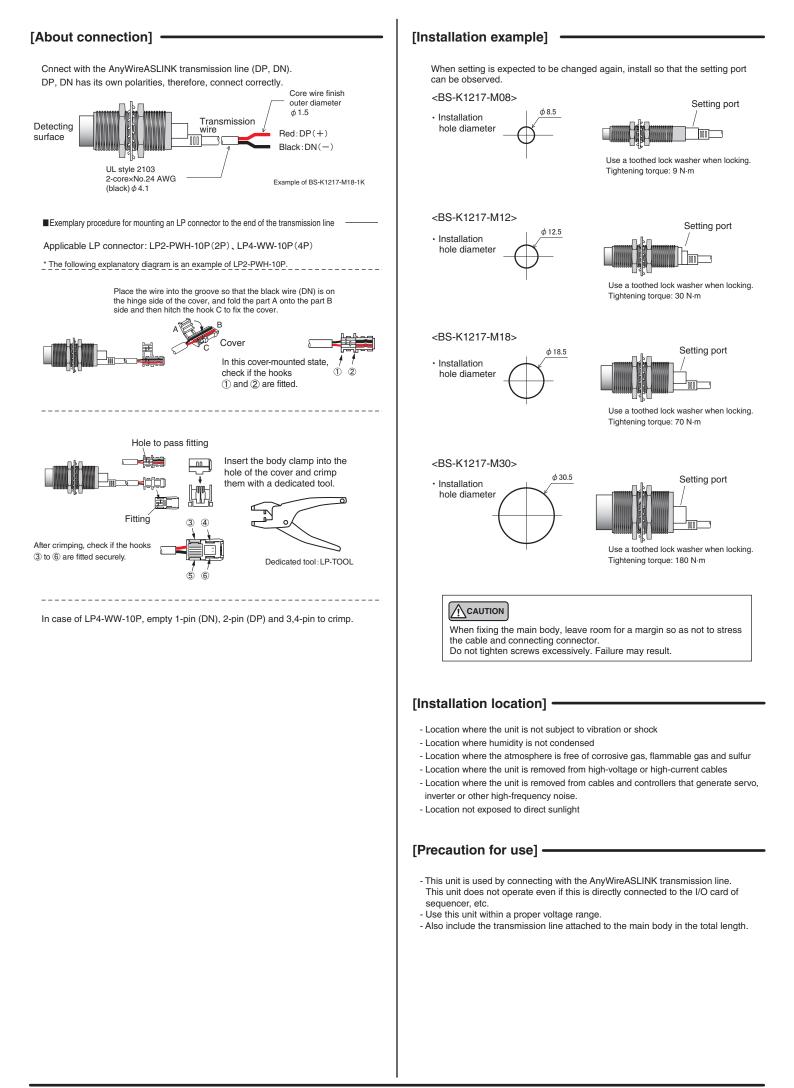
①Power supply to the entire system -----



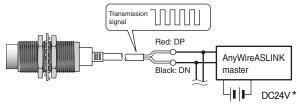
②Local power supply/branching _____







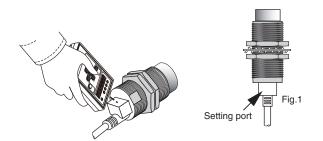
arious settings] ———			
Items			
Address number setting	eaching	Parameter setting	
Common procedure for ad	dress writ	er operation	
To use the address writer, ma AnyWireASLINK master unit.	ike sure to	connect it to the	
Address writer ARW-04(Ver04			
(Ver2.10 or higher) is required For detailed operation proced			
guide of the address writer.	,		



* Make sure to use a 24V DC stabilized power supply for the power supply to be connected.

2. Setting is required for all AnyWireASLINK devices.

Direct the address writer to the setting port (Fig.1) of the main body. Bring the light emitting/receiving part as close to the setting port as possible.



- * When setting is changed in [WRITE] mode, the setting is reflected after the system is started up again. When setting is changed in [DIRECT WRITE] mode, the setting is reflected at a time when writing is completed.
- * If this equipment is arranged in parallel, use the remote head (ARW-RH) together to prevent writing into an unintended terminal.

Address number setting

Set an address number between "0~254."

CAUTION The factory setting of the terminal is "255," which means no setting. When the address number is set at 255, the terminal does not perform an input/output operation. Make sure to set an address number between "0~254" prior to use.

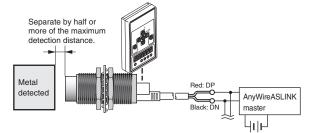
Teaching

Memorize a state with work/without work in ASLINKSENSOR.

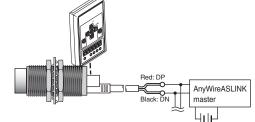
Make settings with work which is actually used. When setting, separate by 50% or more of the maximum detection distance.

[SET ON setting]

Make settings with metal detected present.



[SET OFF setting] Make settings with metal detected absent.



Parameter setting

Setting of threshold value

Set threshold value of sensing level to judge detected/not detected. * Difference in detecting state memorized in teaching is determined to be 100%.

· Address writer (ARW-04, ARW-03): Parameter 01

Variable	Unit	Default: M08 :12
0 - 100	%	M12 :28 M18 :21
		M30 :28

Setting of hysteresis

Set sensing change amount necessary to turn detecting state ON to OFF from turning detecting state OFF to ON.

Address writer (ARW-04, ARW-03): Parameter 02

Variable Unit 0 - 100 % Default: 5

Set presence/absence of alarm diagnosis function. · Address writer (ARW-04, ARW-03): Parameter 07 Variable Description 0 Simple mode Alarm diagnosis function is disabled. 1 Normal mode Alarm diagnosis function is enabled. 1 Normal mode Alarm diagnosis function is enabled. Setting of delay timer ON/OFF Default: 0 Set ON delay timer/OFF delay timer. • • Address writer (ARW-04, ARW-03): Parameter 10 Variable Description 0 No delay timer 0 OFF delay timer 0 No/OFF delay timer is enabled. 2 OFF delay timer value If delay timer is set with parameter 10, delay time can be set. • Address writer (ARW-04, ARW-03): Parameter 11				arm judgment						Opera	ting s	state	of the
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0.100 96 M12: 29 M30: 29 * 50: 48mm value such that Hi>Lo. Setting of alarm value monitoring time • IIIK IIIC and the fill of the	Varia	ble Unit	Defau	lt · M08 · 13							Flas	shing	••
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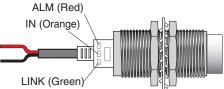
-BSK1217M**1K 7/9-

Operating state of the main body is displayed by LED.

Normal state: LINK flashing, ALM unlit, IN ON lit/OFF unlit

Name	Indication status	Description
	Lit 📃	Transmission signal error
LINK (Green)	Flashing	Transmission signal is normally supplied.
(0.10011)	Unlit	No transmission signal
	Lit 📃	Sensing level drop*
ALM (Red)	Flashing	Slave unit voltage drop
(1100)	Unlit	Normal
LINK ALM	Alternate flashing	When master unit detects duplication of ID (address) of this unit or non-setting
IN	Lit	ON
(Orange)	Unlit	OFF

* When alarm diagnosis function is enabled



Example of BS-K1217-M18-1K

When the LED on the main body displays as follows, take measures as shown below.

LINK	IN	ALM	Cause	Measures
O Unlit	O Unlit	O Unlit	ASLINKSENSOR is not connected to the AnyWireASLINK system. Power supply for the AnyWireASLINK system itself is not turned on.	Confirm that there is no disconnection between the ASLINKSENSOR and the AnyWireASLINK system, and recover the connection. Confirm the power status of the AnyWireASLINK system, and turn on the power.
• Lit	O Unlit	O Unlit	Directly connected to 24-0V power supply.	Reconnect anew to AnyWireASLINK system
© Flashing (0.5s alternate)	O Unlit	© Flashing (0.5s alternate)	ASLINKSENSOR remains at address 255 (factory setting).	Set address other than 255.
			ASLINKSENSOR has a duplicate address number with another unit.	Look for any other unit which has the same error indication, and set any address number different from it.
-	-	© Flashing (0.2s lit, 1.0s unlit)	Transmission signal level lowering is being sensed.	Decrease the number of units connected to the same AnyWireASLINK system. Shorten the transmission line between the ASLINKSENSOR and the master unit.
© Flashing	-	● Lit	Sensing level lowers.	 Confirm state of ASLINKSENSOR, and adjust the position and clean the detecting surface.

When the following errors are indicated by the address writer, take measures as shown below.

Indication	Cause	Measures
[E-0303]		Confirm the parameter and set a correct parameter.

Take the following measures in the following cases.

Symptom	Measures
Cannot detect.	 Is the metal detected in the proper position? → Make adjustment so that the metal detected is within the proper range from the ASLINKSENSOR detecting surface. Is the wiring correct? → Confirm that the ASLINKSENSOR transmission wire is connected correctly to the AnyWireASLINK transmission line (DP, DN). Is a power supply of proper capacity supplied to the AnyWireASLINK master unit and slave unit? Was teaching with work actually detected. Is this used within the rated detecting range? → Use within the rated range.
Cannot set with address writer.	Is the wiring correct? → Re-confirm connection of ASLINKSENSOR transmission wire. Is power supplied to the AnyWireASLINK system? → Confirm the power supply. Is the set parameter correct? → Confirm the parameter and set a correct parameter.

[Parameter and item]

Parameter	Variable	Description	Variable at factory setting		
[01] Threshold value	0-100%	Set threshold value of sensing level to judge detected/not detected.	M08 : 12 M12 : 28 M18 : 21 M30 : 28		
[02] Hysteresis	0-100%	Set sensing change amount necessary to turn detecting state ON to OFF.	5		
[03] Alarm value Hi	0-100%	Set upper limit value of alarm judgment value.	80		
[04] Alarm value Lo	0-100%	Set lower limit value of alarm judgment value.	M08 : 13 M12 : 29 M18 : 22 M30 : 29		
[05] Alarm value Monitoring time			50		
[06] Normally open/	0	Normally open			
Normally close	1	Normally close	0		
[07]	0	Simple mode (alarm diagnosis function is disabled)			
Operation mode	1	Normal mode (alarm diagnosis function is enabled)	0		
[10]	0	Delay timer is disabled.			
Delay timer ON/OFF	1	ON delay timer	0		
	2	OFF delay timer	0		
	3	ON/OFF delay timer			
[11] Delay timer value	0-255	10ms	0		

[Specifications] -

General Specifications

Operating ambient	-10~60°C, 10~90%RH (No condensation)
temperature/humidity	
Storage ambient	-25~75°C, 10~90%RH(No condensation)
temperature/humidity	
Operating atmosphere	No corrosive gas
Altitude for use *1	0~2000m
Degree of contamination *2	2 or less

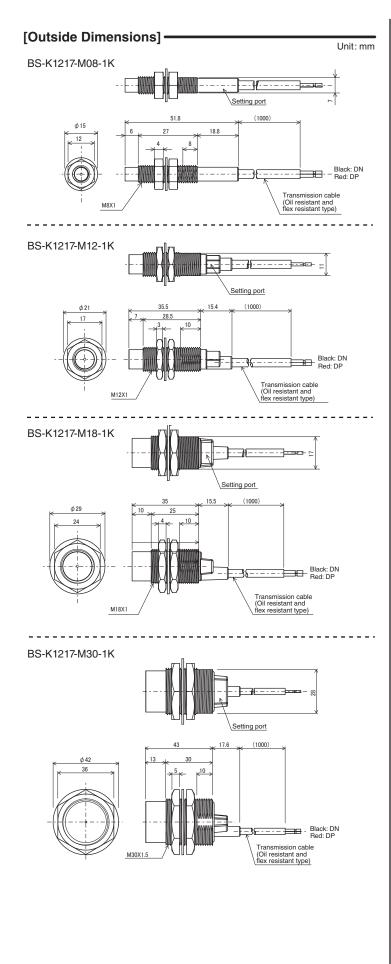
AnyWireASLINK apparatus must not be stored or used under an environment pressurized higher than that of the atmospheric pressure at an altitude 0m. A malfunction will occur.
 This is an indicator to show the degree of occurrence of a conductive substance in an environment where the device is used.
 At the degree of contamination 2, only non-conductive contamination occurs. However, temporary conductivity may occur due to environment setting.

Transmission specification							
Operating power supply voltage	Voltage DC24[V]+15~-10%(21.6~27.6[V] DC) with a ripple 0.5[V]p-p max.						
Transmission method	Full-duplex total frame/cyclic method						
Synchronization method	Frame/bit synchronization method						
Transmission procedure	Dedicated protocol						
Connection mode	Bus type (Multi-drop method, T-branch method, Star, Tree branch method)						
Number of connection points	Up to 512 points (IN 256 points + OUT 256 points)						
Number of connection units	Up to 128 units						
RAS function	Transmission wire disconnection sensing,						
	transmission wire short-circuit sensing,						
	transmission power decrease sensing,						
	ID duplication, ID non-setting sensing						

Individual specification

Number of occupying points	Input 1 point				
Consumption current	Received and supplied from the AnyWireASLINK transmission signal (DP,DN).				
	M08:14.3mA	M12:6.8mA			
	M18:6.7mA	M30:6.5mA			
Detection method	Electromagnetic induct	ion detection			
With/without shield	Non-shield type				
Detection target	Magnetic metal				
Standard detected	M08: Iron 20×20×1mm	M12: Iron 30×30×1mm			
object	M18: Iron 30×30×1mm	M30: Iron 54×54×1mm			
Detection distance	M08:3.4mm(max.)	M12:6.8mm(max.)			
(at ambient temperature 23°C	M18:12.0mm(max.)	M30:20.0mm(max.)			
Stable detection distance	M08:0~2.8mm	M12:0~5.6mm			
	M18:0~10.0mm	M30:0~16.0mm			
Differential	Depending on parameter setting				
Response time *3	Maximum 10ms				
Influence of temperature	Use detection distance at 23°C as a standard.				
	M08: within ±20%	M12: within ±20%			
	M18: within ±10%	M30: within ±10%			
Influence of voltage	Within ±1% of detection distance in a range of the AnyWireASLINK master supply power voltage 27.6 to 21.6V				
Protective structure	IP67				
Mass	M08: Approx. 27g	M12: Approx. 34g			
(main body, cable)	M18: Approx. 45g	M30: Approx. 96g			
Mass	M08: Approx. 6g	M12: Approx. 8g			
(nut, washer)	M18: Approx. 19g	M30: Approx. 41g			

*3 The time from detection of ON or OFF to sending of a transmission signal. This time + 2 transmission cycle times is the transmission delay time.



[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, $% \label{eq:equipment}$

should be disposed of separately from your household waste.

【中国版RoHS指令】•

的产品中有	害物质的名称及含量•	 		 	 	 	 -	
BS-K1	217-M08-1K						_	
		adau C	nul farr	 	 	 	 1	

	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			
框架	0	0	0	0	0	0			

BS-K1217-M12-1K, BS-K1217-M18-1K, BS-K1217-M30-1K

				有害物质							
部件名称	铅 (Pb)	铅 汞 镉 六价格 多溴联苯 多溴二苯醚 (Pb) (Hg) (Cd) [Cr (VI)] (PBB) (PBDE)									
安装基板	×	0	0	0	0	0					
框架	0	0	0	0	0	0					
本表格依据	本表格依据 SJ/T11364 的规定编制。										

○:表示该有書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。 ×:表示该有書物质在该部件所有均质材料中的含量超出GB/T26572规定的限量要求以下。



基于中国标准法的参考规格:GB/T15969.2

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