

Anywire

ASLINKPOKAYOKE series catalog

New Sensor Network Technology
AnyWire for wiring saving



ASLINKPOKAYOKE series

AnyWireASLINK

ASLINKPOKAYOKE

series catalog

Table of Contents

◇System Overview

- What is the POKAYOKE terminal? · · · · 02
- Case example of application · · · · · 03
- Reason to select AnyWire (1 to 3)· · · · · 05
- System configuration and selection procedure
 - POKAYOKE terminal selection procedure · · · · · 09
 - Basic transmission specification of system · · · · 10

◇Product variation

- Product list (Matrix diagram)· · · · · 11
- Product details page · · · · · 13
- Accessories · · · · · 25
- Master units · · · · · 27
- Address setting · · · · · 29

- Outline Dimensional Drawings (3-view drawing) · · · · 31

What is the POKAYOKE terminal?

“Picking” on assembly/production sites

“Picking” work to select parts from inventory according to instruction is carried out at production sites where parts are assembled. Increase in types of parts also increases risks to incorrectly pick parts of similar shape and approximate part name, which is a major problem at production sites.

“POKA-YOKE” is a global common word

Control of human errors in picking work is an essential element for enhancement and improvement in production efficiency and product quality. Systems and devices to prevent such human-induced careless mistakes (poka) are called “POKA-YOKE,” and currently some overseas production sites have adopted the Japanese-derived term “POKA-YOKE,” to indicate the importance of this manufacturing challenge.

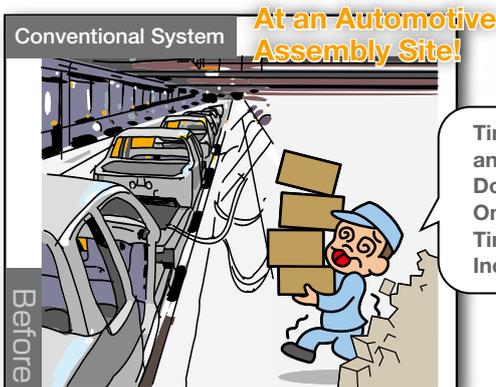
“POKAYOKE” terminal of AnyWire

The “POKAYOKE system” comprising the AnyWire POKAYOKE terminal provides a solution to this problem simply and at low cost. There is no need to look for parts with a list in one hand, and no errors occur in parts and quantity.

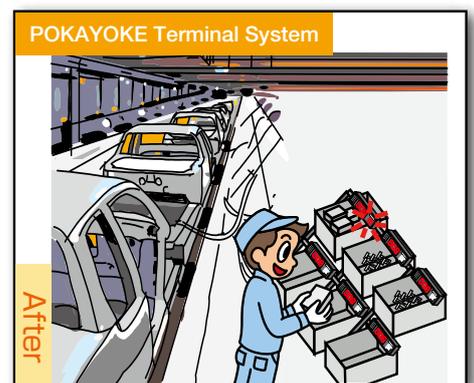
In addition, these POKAYOKE terminals into which AnyWire’s unique Sho-Haisen technology is integrated offer many advantages such as freedom of installation, easy wiring work, flexibility in change and remodeling, and difficulties in introduction can be lowered.

- ◇ As the location of parts is informed by LED lamps, parts can be clearly identified even in a dark warehouse.
- ◇ As only the door for location from which parts should be taken out opens, retrieval errors never occur.
- ◇ As the quantity of parts is clearly instructed by 7-segment indication, errors in quantity never occur.

Before & After



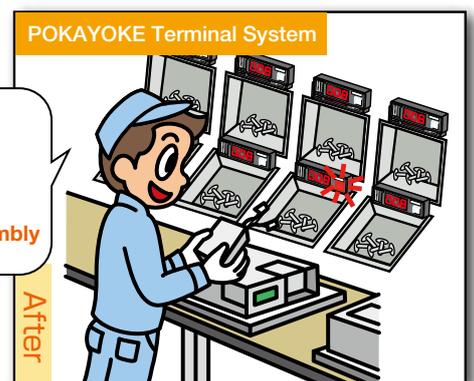
Time and effort required to read a list and instructions
Do not know as to where actual parts are
One handed operation
Time required to assemble
Incorrect parts assembly occurs



When you install the POKAYOKE system,



No need to read a list or instructions
Know where actual parts are at once
Can operate with both hands
Assembly time reduced
Quality improved with correct parts assembly



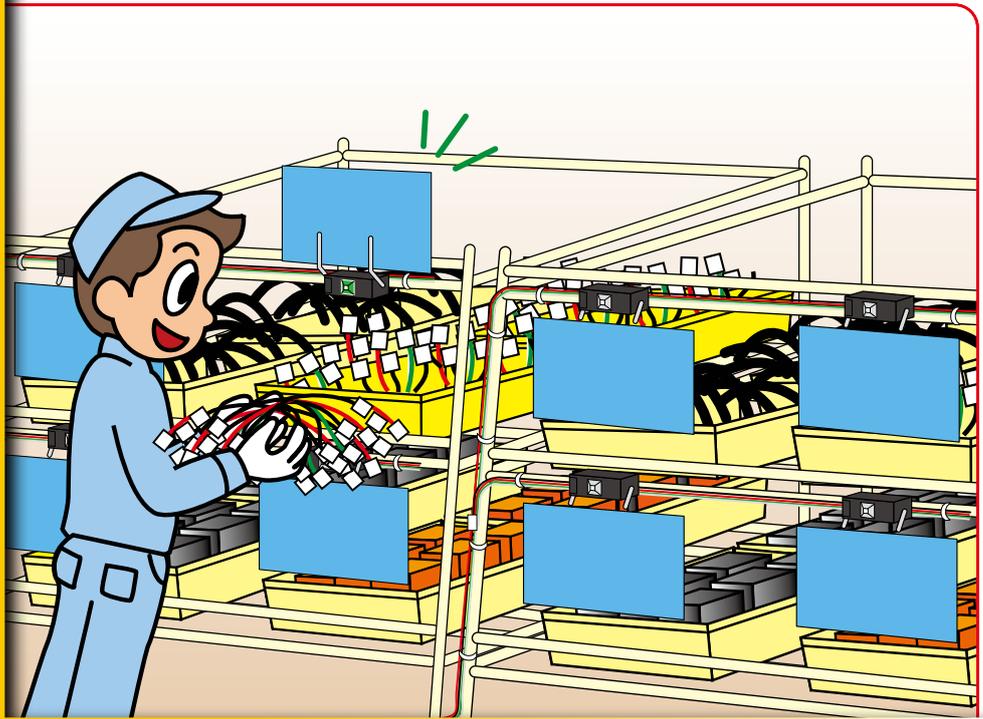
Application 1

<Take-out>

The first application is “take-out.”

“High-mix and low-volume production” is typically the case at current production sites, and “take-out” is inevitably a major point in increasing production efficiency and stabilizing product quality.

Adoption of the POKAYOKE terminal can significantly reduce work man-hours, eliminate errors in take-out of parts and also reduce worker stress.



POKAYOKE terminal for “Take-out” process

Application 2

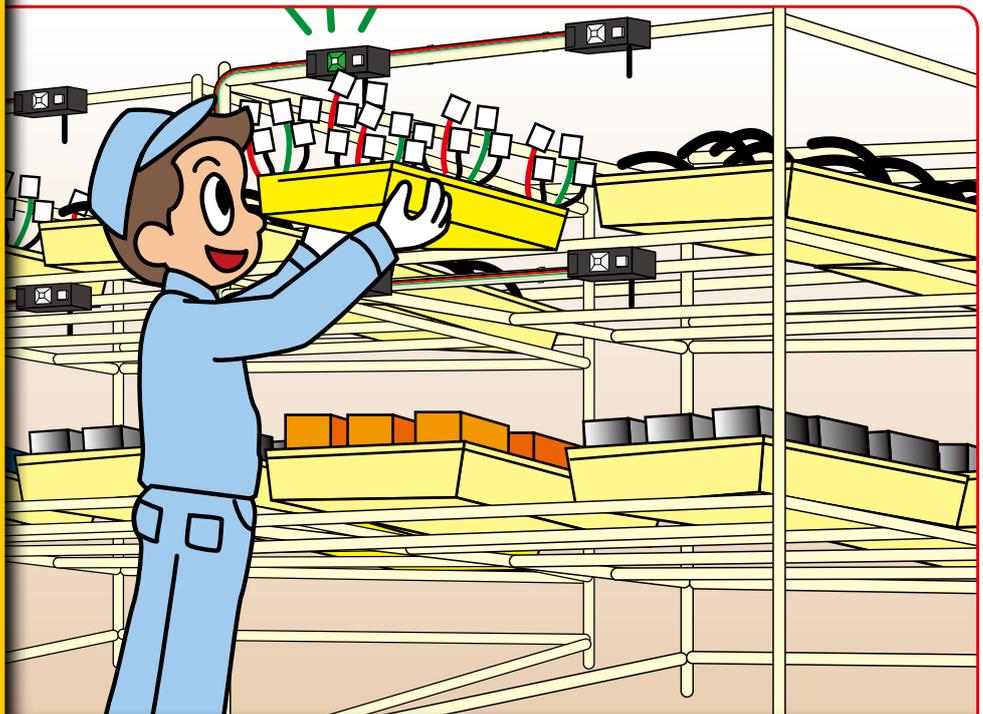
<Throw-in>

The second application is “Throw-in.”

“Throw-in” always exists at production sites where “Take-out” exists.

The POKAYOKE terminal is also used to prevent errors in “Throw-in” of parts.

Adoption of the POKAYOKE terminal can secure confirmation of throw-in of parts. It is recommended to introduce the POKAYOKE terminal for “throw-in” in conjunction with “take-out.”



POKAYOKE terminal for “Throw-in” process

Application 3

<Cell production>

The third application is "cell production."

The "cell production" method has become more common at production sites of "high-mix and low-volume production." In this method in which one worker is in charge of the initial to the end of the assembly process, there are multiple processes, and if the worker makes any mistake, it is hard to make up for it.

Very small type which can be installed at a narrow opening and the end surface of a column plate is available in the POKAYOKE terminal lineup, and is also most suitable for cell production.



POKAYOKE terminal for "Cell production"

Application 4

<Kitting: Tray service>

The fourth application is "Kitting: Tray service."

Work in which parts which are necessary for manufacturing of a certain product are collected in one box (kit box) as one kit is called "kitting."

The ultimate objectives of the take-out process and kitting are the same, however, detailed work instructions such as quantity and sequence of take-out are required for kitting.

POKAYOKE terminal is also used at such kitting sites.



POKAYOKE terminal for "Kitting: Tray service" process

Reason to select AnyWire 1

ADVANTAGE ①

wide **variety!**

Variation in response and detection

Response: Lever switch



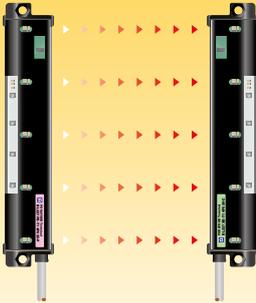
Response: Pushbutton



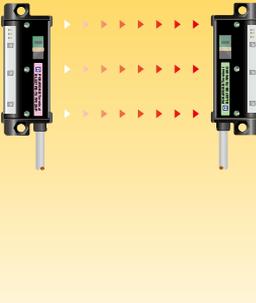
Detection: Photoelectric reflection (downward)



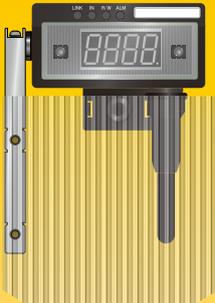
Detection: Photoelectric transmission



Detection: Photoelectric transmission



Variation in indication and instruction



Indication: LED indication



Indication: LED indication



Indication: 7-segment+LED indication



Indication: 7-segment+LED indication



Instruction: Door opening/closing

Installation method also flexible!

Most POKAYOKE terminals can be **installed on a 28mm diameter pipe rack as they are**. Three types of pipe installation holders are available depending on workability at the time of installation (refer to the "Installation" at the right for details).

Depending on the product, there is also a type to drill at the installation location and directly install with screws or bolts.



Pipe installation example



SUS pipe installation holder

Reason to select AnyWire 1

Basic

This is the most standard POKAYOKE terminal with **“LED indication,” “Lever switch”** and **“Pipe installation.”** This is our best seller due to its simplicity. If you are considering which type to buy, select this type.



7-segment

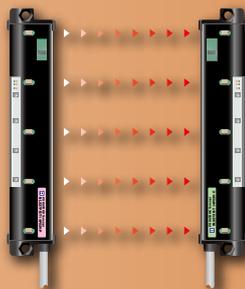
This type uses the 7-segment for indication. Use this product when you require indication of numerical values such as the number of parts.

There are products with **one digit display** and **two digit display**. Products of a lever switch and pushbuttons are available for a response, allowing you to select your preference.



When parts are long, and openings are wide or you want to detect by take-out operation and eliminate response operation, **“Photoelectric transmission type”** is optimal.

Photoelectric transmission



Opening/closing of door

POKAYOKE terminal instructs on the take-out location by opening/-closing of door **block openings** from which parts should not be taken out. This is most effective for prevention of mistake.

There are products with **LED-indication only** and with **LED-indication and 7-segment variable four digit display**.

There are three types of response, “lever switch,” “pushbutton” and “downward reflection,” and two types of doors **“a type that opens vertically to the ground”** and **“a type that opens horizontally to the ground.”** They can be selected according to various sites.

Also, a small and touch detection type POKAYOKE terminal that is ideal for drug shelves and parts shelves with many small boxes lined and **capable of being installed in any space**, is available. It can be installed on the side of a shelf board with double-sided tape.



Touch detection

A surface-emission POKAYOKE terminal with a wide light-emission surface that stands out even in dark places. Visibility from a distance is also the best.

Surface emission

Visibility from a distance is also the best.



Holder for pipe installation product can be selected from the following three types.

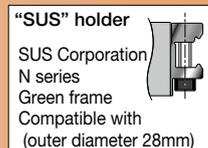
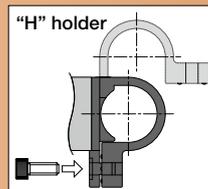
“H” is a **standard mounting holder**, and is the easiest installation type due to the installation bolts being tightened from the front. There is a protruding section to the structure at the bottom of the holder.

“H1” has no protrusion at the bottom of the holder, and is a type for which the bolt is tightened from the bottom (there is a protrusion on the back).

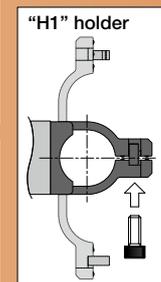
→Add “-H1” at the end of the standard model.

“SUS” is a dedicated holder installed on aluminum pipe of SUS Corporation.

→Change the end of the standard model from “-P” to “-PS.”



Installation

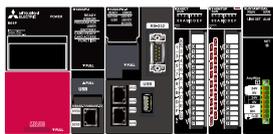


Reason to select AnyWire 2

ADVANTAGE ②

Compatible with various controllers & networks!

Because the AnyWire POKAYOKE terminal compatible with the MELSEC sequencer of Mitsubishi Electric and many common industrial open networks can be used with general equipment, environments and tools, there are no concerns even with the initial introduction.



MELSEC iQ-R



MELSEC-Q



MELSEC-L

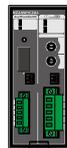


MELSEC iQ-F



MELSEC-F

CC-Link



CC-Link IE Field



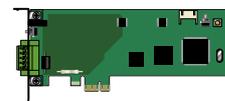
DeviceNet



PROFIBUS



Ethernet



PCI Express

MELSEC sequencer manufactured by Mitsubishi Electric Corporation

- MELSEC-iQ-R series
- MELSEC-Q series
- MELSEC-L series
- MELSEC iQ-F series
- MELSEC-F series

Various open networks & PC buses

- CC-Link (Ver.1.10/Ver.2.00)
- CC-Link IE Field
- DeviceNet
- SLMP
- Modbus/TCP
- PROFIBUS
- EtherNet/IP
- PCI Express

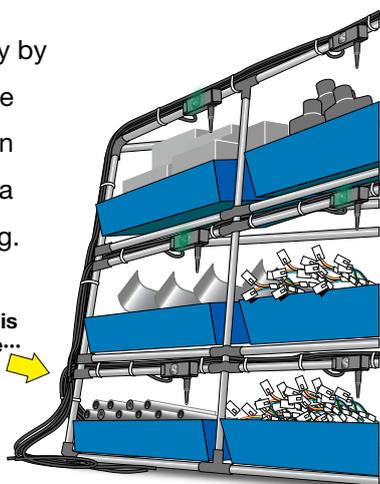
Reason to select AnyWire 3

ADVANTAGE ③ of course, Sho-Haisen!

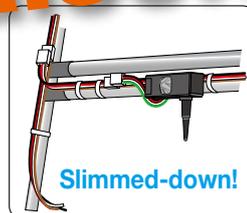
The POKAYOKE terminal which “AnyWire of Sho-Haisen” delivers is of course “**POKAYOKE [Sho-Haisen] terminal.**”

Connection can be made only by branching from the main line without requiring connection of individual terminals with a controller in one-to-one wiring.

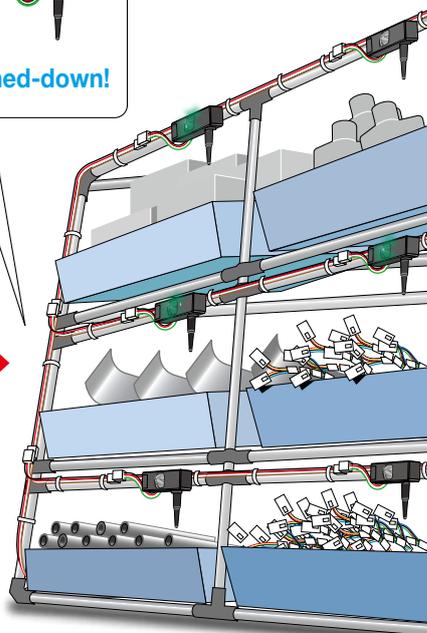
Bundle of cables is on controller side...



Conventional method



Slimmed-down!



Sho-Haisen method

Easy branching!

Link connector (LP connector) is equipped as a standard on the POKAYOKE terminal transmission line (partially excluded). The link connector allows for branching and extension work without electric wire cutting and sheath stripping. Work time can also be reduced, and no electric wire or sheath waste, etc., is produced.

- Branching can be made even in the middle of wiring because of crimping.
- No waste is produced because an electric wire is not cut/sheath is not stripped.
- There is no difference between male and female, and are the same models, so it is easy to understand.



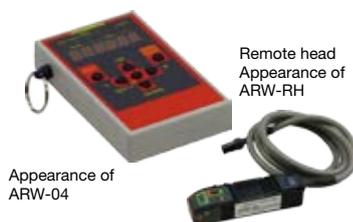
Step 1
You can sandwich wire in a sleeve even in the middle or at the end of an electric wire.

Step 2
Clamp with a dedicated tool to crimp. (See the accessory items.)

Step 3
T-branch, 4-branch or extension is allowed. Working time is significantly reduced.

Address setting!

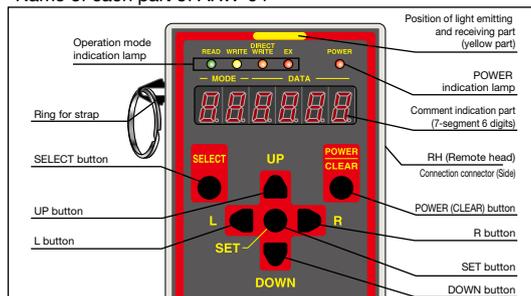
Address setting method for the AnyWire POKAYOKE terminal is to use an address writer to read and write address in a non-contact state. Refer to page 29 for address setting. Refer to and confirm by the product instruction manual of each product for details of each product.



Appearance of ARW-04

Remote head Appearance of ARW-RH

Name of each part of ARW-04



Configuration of POKAYOKE system

Configuration of the POKAYOKE system requires a “Master unit” and “Terminator” in addition to the POKAYOKE terminal, and an “electric wire” and “connector” connecting them, and “24V DC stabilized power source.”

1. Selection of master unit



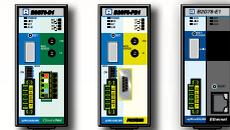
Select the master unit to be used for your POKAYOKE system according to the sequencer and open network to be used.



For the MELSEC sequencer



For CC-Link · CC-Link IE Field



For DeviceNet · PROFIBUS
EtherNet/IP · Modbus/TCP
SLMP



For PCI Express

2. Selection of terminal

Narrow down the POKAYOKE terminals you want to use with reference to features of individual products such as

“**indication, instruction,**”
“**response, detection**”
“**how to install,**”

and site environment and purpose for introduction.

“**Number of occupied points**” and
“**consuming current**” vary with
each product, which causes the
number of connectable units to
vary.

Sufficiently confirm the specifications referring to the catalog and Product Guide (Product instruction manual) to determine the configuration.

*A compatible lineup for every product feature can be confirmed in the product matrix diagram on pages 05 to 06 and pages 11 to 12.

3. Terminator

The AnyWire Terminator is different from “Terminal resistor” in general, and incorporates a circuit to form a transmission waveform. **Make sure to install one piece in one system at the most remote end of the branch.**

Terminator
(Waveform shaping module)

4. Connector and cable

All POKAYOKE terminals are shipped with a link connector (LP connector) connected.

The link connector is a crimp type connector with no distinction between female and male, and the branch point can be provided at any location without cutting the main line.

If a “4-core flat cable” which is the same as that used for the terminal is used, wiring work can be performed easily and quickly.

ASLINKPOKAYOKE basic transmission specifications

General specifications

*Descriptions are for representative general specifications. There are exceptions depending on the product. Refer to and confirm the instruction manual for details.

Ambient temperature use	0 to 55°C
Ambient temperature storage	-25°C to 75°C
Ambient humidity use	10 to 90%RH, No condensation
Ambient humidity storage	
Atmosphere use	No corrosive gas
Altitude use *1	0 to 2000m
Pollution level *2	2 or less

*1 Do not use or store the AnyWireASLINK equipment in an environment pressurized above the atmospheric pressure at altitude 0m. Malfunction may result.

*2 This is an index showing the degree of generation of conducting substance in an environment where the equipment is used. Pollution level 2 means generation of non-conducting pollution only. However, temporary conduction may occur by accidental condensation in this environment.

Performance specifications

Transmission clock	27kHz (37μs)			
Transmission distance/ supply current *3	1.25mm ²	Size	Transmission distance	DP-DN allowable supply current
		50m or less	Exceeding 50m, 100m or less	2A or less
			Exceeding 100m, 200m or less	1A or less
	0.75 mm ²	50m or less	Exceeding 50m, 100m or less	0.5A or less
		Exceeding 50m, 100m or less	Exceeding 100m, 200m or less	1.2A or less
		Exceeding 100m, 200m or less	0.6A or less	
	0.5mm ²	50m or less	Exceeding 50m, 100m or less	0.3A or less
		Exceeding 50m, 100m or less	Exceeding 100m, 200m or less	0.8A or less
		Exceeding 100m, 200m or less	0.4A or less	
Exceeding 100m, 200m or less	0.2A or less			
Number of connection points	Up to 128 units			
Transmission method	DC power supply superimposed total frame/cyclic method			
Connection mode	T-branch method, multi-drop method, star wiring method, tree branch method			
Transmission protocol	AnyWireASLINK protocol			
Error control	Double check, checksum			
Number of connection I/O points	Up to 512 points (Input 256 points/output 256 points) However, up to 128 points for FX3U-128ASL-M (input + output ≤ 128 points) (number of input points are prioritized in case of input + output > 128 points) Up to 448 points for FX5-ASL-M (input + output ≤ 448 points) (input up to 256 points, output up to 256 points)*4			
RAS function	Transmission line disconnection detection function, transmission line short-circuit detection function, transmission circuit drive power drop detection function ID (address) redundant/non-setting detection function			
Electric wire used	- General-purpose 2-wire/4-wire cable (VCTF, VCT 0.75 to 1.25mm ² , rated temperature 70°C) - General-purpose electric wire (0.75 to 1.25mm ² , rated temperature 70°C) - Dedicated flat cable (0.75mm ² /1.25mm ² , rated temperature 90°C)			

*3 Total length also includes the cable section of the terminal with cable.

Size of the cable section of the terminal with cable is not included under this condition.

*4 If used in a configuration other than the combination of GX Works3 (Ver. 1.047Z or higher) and FX5U CPU unit (ver. 1.100 or higher), the maximum number of points is 384 (input + output ≤ 384 points) (input up to 256 points, output up to 256 points)

Transmission cycle time

Transmission I/O point number setting	64 points (Input 32 points, output 32 points)	128 points (Input 64 points, output 64 points)	256 points (Input 128 points, output 128 points)	512 points (Input 256 points, output 256 points)
1 transmission cycle time	2.3ms	3.5ms	5.9ms	10.6ms

Transmission cycle time is time to update input and output data of the master unit and all slave units.

In actuality, "transmission delay time," twice of transmission cycle time is generated by influence of the double check function.

Precautions on transmission

◇ If the transmission line is a 4-core line (DP, DN, 24V and 0V run together) and the length exceeds 50m, connect "ASLINK filter [model ANF-01]" in series to 24V and 0V at a position where 4-core running starts together (immediately below the master unit in general connection state). (Maximum allowable current 5A/DC24V)

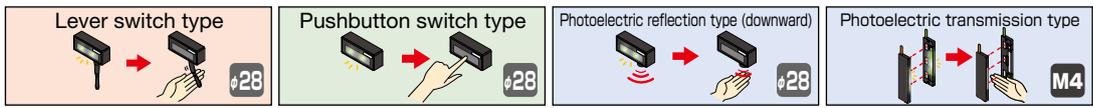
→ Signal is stabilized in order to enhance noise resistance and suppress influence of cross-talk by transmission signal.

→ In both cases when collectively supplying from the power source for master and when supplying from local power source, these shall be inserted.

→ When complying with CE standard, insert "ASLINK filter [model ANF-01]" regardless of laying method and distance.

List of POKAYOKE terminal products

Response, detection method



		Lever switch type		Pushbutton switch type		Photoelectric reflection type (downward)		Photoelectric transmission type	
		φ28		φ28		φ28		M4	
LED indication only	 	BL227XB-K02V-P	BL227XB-K02VN-P	BL227XB-K02VL-P	BL227PB-T07P02V-P	BL227XB-T07P02V-C	BL227PB-T14P02V-P	BL227XB-T14P02V-C	
		BL227XB-K06M-P	BL227XB-K06MN-P	BL227XB-K06ML-P	BL227PB-T07P06M-P	BL227XB-T07P06M-C	BL227PB-T14P06M-P	BL227XB-T14P06M-C	Refer to page 14 for details.
7-segment indication + LED indication	 	BL227XB-K71V-P	BL227XB-K71VN-P	BL227XB-K71VL-P					
		BL227XB-K72V-P	BL227XB-K72VN-P	BL227XB-K72VL-P					
		BL227XB-K71M-P	BL227XB-K71MN-P	BL227XB-K71ML-P					
		BL227XB-K72M-P	BL227XB-K72MN-P	BL227XB-K72ML-P					
LED indication + Door opening/closing	Standard compact Metal arm (vertical)	BL227XB-FK04V-P	BL227XB-FK04VN-P	BL227XB-FK04VL-P					
		BL227XB-F2K04V-P	BL227XB-F2K04VN-P	BL227XB-F2K04VL-P					
		BL227XB-FK06M-P	BL227XB-FK06MN-P	BL227XB-FK06ML-P					
		BL227XB-F2K08M-P	BL227XB-F2K08MN-P	BL227XB-F2K08ML-P	Refer to page 17 for details.				
	Standard compact Metal arm (horizontal)	BL227XB-RK04V-P	BL227XB-RK04VN-P	BL227XB-RK04VL-P					
		BL227XB-R2K04V-P	BL227XB-R2K04VN-P	BL227XB-R2K04VL-P					
		BL227XB-RK06M-P	BL227XB-RK06MN-P	BL227XB-RK06ML-P					
		BL227XB-R2K08M-P	BL227XB-R2K08MN-P	BL227XB-R2K08ML-P	Refer to page 18 for details.				
	Standard compact Plastic arm (vertical)	BL227XB-F1K04V-P	BL227XB-F1K04VN-P	BL227XB-F1K04VL-P					
		BL227XB-F3K04V-P	BL227XB-F3K04VN-P	BL227XB-F3K04VL-P					
		BL227XB-F1K06M-P	BL227XB-F1K06MN-P	BL227XB-F1K06ML-P					
		BL227XB-F3K08M-P	BL227XB-F3K08MN-P	BL227XB-F3K08ML-P	Refer to page 19 for details.				
LED indication + Door opening/closing + 7-segment indication	Standard compact Metal arm (vertical)	BL227XB-FK7V4V-P	BL227XB-FK7V4VN-P	BL227XB-FK7V4VL-P					
		BL227XB-F2K7V4V-P	BL227XB-F2K7V4VN-P	BL227XB-F2K7V4VL-P					
		BL227XB-FK7V4M-P	BL227XB-FK7V4MN-P	BL227XB-FK7V4ML-P					
		BL227XB-F2K7V4M-P	BL227XB-F2K7V4MN-P	BL227XB-F2K7V4ML-P	Refer to page 20 for details.				
	Standard compact Metal arm (horizontal)	BL227XB-RK7V4V-P	BL227XB-RK7V4VN-P	BL227XB-RK7V4VL-P					
		BL227XB-R2K7V4V-P	BL227XB-R2K7V4VN-P	BL227XB-R2K7V4VL-P					
		BL227XB-RK7V4M-P	BL227XB-RK7V4MN-P	BL227XB-RK7V4ML-P					
		BL227XB-R2K7V4M-P	BL227XB-R2K7V4MN-P	BL227XB-R2K7V4ML-P	Refer to page 21 for details.				
	Standard compact Plastic arm (vertical)	BL227XB-F1K7V4V-P	BL227XB-F1K7V4VN-P	BL227XB-F1K7V4VL-P					
		BL227XB-F3K7V4V-P	BL227XB-F3K7V4VN-P	BL227XB-F3K7V4VL-P					
		BL227XB-F1K7V4M-P	BL227XB-F1K7V4MN-P	BL227XB-F1K7V4ML-P					
		BL227XB-F3K7V4M-P	BL227XB-F3K7V4MN-P	BL227XB-F3K7V4ML-P	Refer to page 22 for details.				
Standard type Door opening/closing + LED indication	Standard type Metal arm (vertical)	BL227XB-F04V-P		BL227XB-F04VL-P				Refer to page 23 for details.	

Products with marked bold letter type are standard inventory. Other products are made-to-order products.

List of POKAYOKE terminal products

		Response, detection method	
		Touch type (wire duct type)	Touch type (surface-emission type)
Indication, instruction method	LED indication only		
		B292XB-02VL Refer to page 24 for details.	BL2101XB-02VL-P Refer to page 24 for details.
		B292XB-06ML Refer to page 24 for details.	

◆ Indicated by icon

Selection of one color from seven colors	7-segment display "one digit"	Mounting with φ28 pipe
RGB each color Independent ON/OFF	7-segment display "two digit"	Mounting with M4 screw
Metal arm (metallic) and the angle of closed door is "Vertical."	7-segment variable display "four digit"	Mounting with double-sided tape
Metal arm (metallic) and the angle of closed door is "Horizontal."	Door opening/closing and LED indication are "interlocked."	Mounting with magnet
Plastic arm (resin) and the angle of closed door is "Vertical."	Door opening/closing and LED indication are "independent."	

*The door angle of door opening/closing type POKAYOKE terminal is an appropriate one.

◆ The color of LED indication

"Selection type" :

The indication color of this terminal can be selected from one of the seven colors on the right.

"Combination type" :

The indication color of this terminal can be set from one of the seven colors on the right by a combination of RGB.

	Green		Sky blue
	Red		Purple
	Blue		White
	Yellow*		

*The actual color is close to orange

POKAYOKE terminal type standard

◆ Model *The following is a simplified description. Keep this in mind as a reference because there are some exceptions.

• In the case of lever switch type, pushbutton switch type, photoelectric reflection type (downward) product

Ex. 1) BL227XB-FK7V4VN-P

BL2	27	XB	-	F	K	7V4	V	N	-P
Connection method	Chassis category	Input/output category		Door arm material Direction and I/O interlock	Size shape	I/O points or 7-segment specification	LED indication	Input method	Holder & cable specifications
BL2 Four wire type (isolated)	27	XB Input/output		F Metal/vertical/interlocked	K Standard small size	02	V LED selection type	N Pushbutton	-P "H" holder 200 mm cable with LP connector
				F1 Plastic/vertical/interlocked	(No mark) Standard type	04	M LED combination type	L Downward reflection	-P-H1 "H1" holder 200 mm cable with LP connector
				F2 Metal/vertical/independent		06		(No mark) Lever	-PS "SUS" holder 200 mm cable with LP connector
				F3 Plastic/vertical/independent		08			
				R Metal/horizontal/interlocked		71 7-segment and one digit			
				R2 Metal/horizontal/independent		72 7-segment and two digit			
						7V4 7-segment variable four digit <small>*The number of digits can be changed by setting.</small>			

* Refer to pages 05 to 06 for details of holders.

• In the case of photoelectric transmission type product

Ex. 2) BL227PB-T07P02V-P

BL2	27	PB	-	T	07P	02	V	-P
Connection method	Chassis category	Input/output category		Product category	Size protective structure	I/O points	LED indication	Light-emission/reception class
BL2 Four wire type (isolated)	27	XB Input/output		T Transmission type	07P 70mm/dust-proof	02	V LED selection type	-P Light-emission side
		PB Output			14P 140mm/dust-proof	06	M LED combination type	-C Light-reception side

Indication: LED (selection, combination)

◇ Response: Lever switch

- ◆ LED indication:
(selection type, combination type)
Lever switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
 LED One color selection type	Lever switch	1	1	6	35	φ28 pipe	31	BL227XB-K02V-P	Open
 LED Combination type	Lever switch	1	3	6	35	φ28 pipe	31	BL227XB-K06M-P	Open

◇ Response: Pushbutton switch

- ◆ LED indication:
(selection type, combination type)
Pushbutton switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
 LED One color selection type	Pushbutton	1	1	6	35	φ28 pipe	31	BL227XB-K02VN-P	Open
 LED Combination type	Pushbutton	1	3	6	35	φ28 pipe	31	BL227XB-K06MN-P	Open

◇ Detection: Photoelectric downward reflection type

- ◆ LED indication:
(selection type, combination type)
Photoelectric downward reflection

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
 LED One color selection type	Downward reflection	1	1	6	35	φ28 pipe	31	BL227XB-K02VL-P	Open
 LED Combination type	Downward reflection	1	3	6	35	φ28 pipe	31	BL227XB-K06ML-P	Open 

*The above models are equipped with “H” holder as a standard.
*When installing “H1” holder, add “-H1” at the end of the standard model.
*When installing “SUS” holder, change the end of the standard model from “-P” to “-PS.”



BL227XB-K02V-P
BL227XB-K06M-P



BL227XB-K02VN-P
BL227XB-K06MN-P



BL227XB-K02VL-P
BL227XB-K06ML-P

◆ Option · Common

Product specifications	Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
[H] holder φ28 pipe installation holder lower tightening type (including 5 pieces)	φ28 pipe	34	A027-HP28-5P	Open
[H1] holder φ28 pipe installation holder back tightening type (including 5 pieces)	φ28 pipe	34	A027-HP28-H1-5P	Open
[SUS] holder SUS pipe installation holder (including 1 piece)	SUS pipe	34	A027-HP-SUS2	Open
Replacement rubber lever set (including cover, lever, ring respectively 5 pieces)	Terminal	-	A027-LES-01-5P	Open

* φ28 pipe installation holder is included with the POKAYOKE terminal (φ28 pipe installation type). Single part is an option for change of installation and repair.

◆ Address writer



Product specifications	Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
Address writer (general-purpose)	Non-contact type	34	ARW-04	Open
Infrared ray remote head for address writer	Non-contact type	-	ARW-RH	Open
Address writer ARW-04 + Infrared ray remote head	Non-contact type	-	ARW-04-RH	Open

Indication: LED (selection, combination) Detection: Photoelectric transmission type

◆ LED indication:
(selection type, combination type)
Photoelectric transmission type
(Dust-proof: 70mm short)

Indication, instruction	Response, detection	Number of I/O points		Light axis	Maximum detection distance (mm)	Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output			Transmission side	I/O side				
LED One color selection type Transmission (light emission)			1	3	300	2.5	15	M4 screw	31	BL227PB-T07P02V-P	Open
LED One color selection type Transmission (light reception)		1	1	3	300	2.5	20	M4 screw	31	BL227XB-T07P02V-C	Open
LED Combination type Transmission (light emission)			3	3	300	2.5	15	M4 screw	31	BL227PB-T07P06M-P	Open △
LED Combination type Transmission (light reception)		1	3	3	300	2.5	20	M4 screw	31	BL227XB-T07P06M-C	Open △

*The occupied points of the light-reception side (model: BL227XB and subsequent models) are as described above. However, "only input specification" is available on CSP+ (profile for GX Works) to prevent output duplication errors with the light-emission side. Although there is no problem with use, please note that there are differences from the actual number of I/O occupied points.

◆ LED indication:
(selection type, combination type)
Photoelectric transmission type
(Dust-proof: 140mm long)

Indication, instruction	Response, detection	Number of I/O points		Light axis	Maximum detection distance (mm)	Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output			Transmission side	I/O side				
LED One color selection type Transmission (light emission)			1	5	1000	2.5	16	M4 screw	31	BL227PB-T14P02V-P	Open
LED One color selection type Transmission (light reception)		1	1	5	1000	2.5	25	M4 screw	31	BL227XB-T14P02V-C	Open
LED Combination type Transmission (light emission)			3	5	1000	2.5	16	M4 screw	31	BL227PB-T14P06M-P	Open △
LED Combination type Transmission (light reception)		1	3	5	1000	2.5	25	M4 screw	31	BL227XB-T14P06M-C	Open △

*The occupied points of the light-reception side (model: BL227XB and subsequent models) are as described above. However, "only input specification" is available on CSP+ (profile for GX Works) to prevent output duplication errors with the light-emission side. Although there is no problem with use, please note that there are differences from the actual number of I/O occupied points.

• Option

Product specifications	Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
Protective bracket for transmission type terminal (Dust-proof: 70mm)(including 1 piece)	M4 screw	31	A027-T07PC	Open
Protective bracket for transmission type terminal (Dust-proof: 140mm)(including 1 piece)	M4 screw	31	A027-T14PC	Open
Installation screw set for transmission type terminal (for product with no protective bracket) (including 5 pieces)	M4 screw	-	A027-TSM4-5P	Open
Installation screw set for transmission type terminal (for product with protective bracket)(including 5 pieces)	M4 screw	-	A027-TPSM4-5P	Open
φ28 pipe installation holder for transmission type terminal (Dust-proof: 70mm)(including 1 piece)	φ28 pipe	31	A027-T07PHP28-H1	Open
φ28 pipe installation holder for transmission type terminal (Dust-proof: 140mm)(including 1 piece)	φ28 pipe	31	A027-T14PHP28-H1	Open



BL227XB-T07P02V-C
BL227XB-T07P06M-C
BL227PB-T07P02V-P
BL227PB-T07P06M-P



BL227XB-T14P02V-C
BL227XB-T14P06M-C
BL227PB-T14P02V-P
BL227PB-T14P06M-P

◆ Address writer



Product specifications	Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
Address writer (general-purpose)	Non-contact type	34	ARW-04	Open
Infrared ray remote head for address writer	Non-contact type	-	ARW-RH	Open
Address writer ARW-04 + Infrared ray remote head	Non-contact type	-	ARW-04-RH	Open

Indication: 7-segment (one digit, two digit) + LED (selection, combination)

◇ Response: Lever switch

- ◆ 7-segment (one digit, two digit) + LED indication (selection type, combination type) Lever switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Trans- mission side	I/O side				
7- + LED	Lever switch	1	5	6	48	φ28 pipe	32	BL227XB-K71V-P	Open
7- + LED	Lever switch	1	9	6	48	φ28 pipe	32	BL227XB-K72V-P	Open △
7- + LED	Lever switch	1	7	6	48	φ28 pipe	32	BL227XB-K71M-P	Open △
7- + LED	Lever switch	1	11	6	48	φ28 pipe	32	BL227XB-K72M-P	Open △

◇ Response: Pushbutton switch

- ◆ 7-segment (one digit, two digit) + LED indication (selection type, combination type) Pushbutton switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Trans- mission side	I/O side				
7- + LED	Pushbutton	1	5	6	48	φ28 pipe	32	BL227XB-K71VN-P	Open △
7- + LED	Pushbutton	1	9	6	48	φ28 pipe	32	BL227XB-K72VN-P	Open △
7- + LED	Pushbutton	1	7	6	48	φ28 pipe	32	BL227XB-K71MN-P	Open △
7- + LED	Pushbutton	1	11	6	48	φ28 pipe	32	BL227XB-K72MN-P	Open △

◇ Detection: Photoelectric downward reflection type

- ◆ 7-segment (one digit, two digit) + LED indication (selection type, combination type) Photoelectric downward reflection

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Trans- mission side	I/O side				
7- + LED	Downward reflection	1	5	6	48	φ28 pipe	32	BL227XB-K71VL-P	Open △
7- + LED	Downward reflection	1	9	6	48	φ28 pipe	32	BL227XB-K72VL-P	Open △
7- + LED	Downward reflection	1	7	6	48	φ28 pipe	32	BL227XB-K71ML-P	Open △
7- + LED	Downward reflection	1	11	6	48	φ28 pipe	32	BL227XB-K72ML-P	Open △

*The above models are equipped with "H" holder as a standard.
 *When installing "H1" holder, add "-H1" at the end of the standard model.
 *When installing "SUS" holder, change the end of the standard model from "-P" to "-PS."



◆ Option

· Common

Product specifications		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
[H] holder	φ28 pipe installation holder lower tightening type (including 5 pieces)	φ28 pipe	34	A027-HP28-5P	Open
[H1] holder	φ28 pipe installation holder back tightening type (including 5 pieces)	φ28 pipe	34	A027-HP28-H1-5P	Open
[SUS] holder	SUS pipe installation holder (including 1 piece)	SUS pipe	34	A027-HP-SUS2	Open
Replacement rubber lever set (including cover, lever, ring respectively 5 pieces)		Terminal	-	A027-LES-01-5P	Open

*φ28 pipe installation holder is included with the POKAYOKE terminal (φ28 pipe installation type). Single part is an option for change of installation and repair.

◆ Address writer



Product specifications		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
Address writer (general-purpose)		Non-contact type	34	ARW-04	Open
Infrared ray remote head for address writer		Non-contact type	-	ARW-RH	Open
Address writer ARW-04 + Infrared ray remote head		Non-contact type	-	ARW-04-RH	Open

Standard small door opening/closing type variations

◆ There are various specifications of the standard small door opening/closing type POKAYOKE terminal, and the model is determined by their combination. The optimum POKAYOKE terminal can be selected according to the application.

□ Instruction method Material and stationary position of door arm



There are two types of door arms, a "metal arm" and a "plastic arm," and the metal arm has two types, a "vertical type" and a "horizontal type" depending on its stationary position (origin).

- ◇ **Metal arm vertical:** A metal arm is mounted vertically. This is the most common specification.
- ◇ **Metal arm horizontal:** A metal arm is mounted horizontally. Select this to open and close a lid-shaped object such as a part box.
- ◇ **Plastic arm vertical:** A plastic arm is mounted vertically. This is convenient for small spaces as a simple door has been already mounted.



□ Display method LED indication and 7-segment display



There are two types of methods, "LED indication only" and "LED and 7-segment display" as display methods other than ejection instruction by door opening and closing operations.

Either "Selection type (one of seven colors)" or "7-color display by RGB combination" can be selected for each LED indication.

- ◇ **Selection type (one of seven colors):** select LED indication color by using address writer or from the top. The terminal lights with only the selected color at the time of output.
- ◇ **7-color display by RGB combination:** As each LED of RGB (red, green and blue) can be individually turned on/off, the colors can be changed from the top at any time.

And 7-segment display is "7-segment variable four digit display." The number of such digits can be selected by using an address writer in advance (one – four digits).



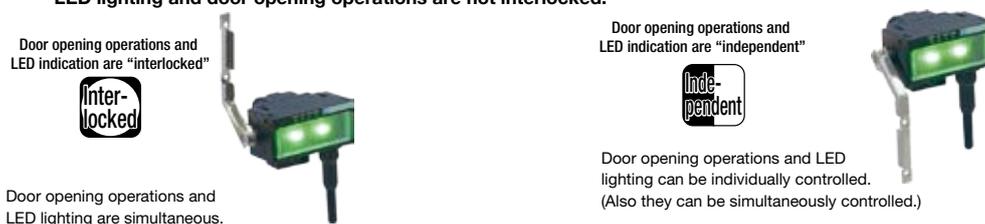
*The images are in the case of four digit display.

□ Instruction method Operation of door arm



The two types of methods of "Interlocked" and "Independent" are available also for ejection instruction by door opening and closing operations.

- ◇ **Interlocked:** LED indication and door opening operations are collectively controlled with one output bit. "Interlocked" is used when opening the door at the same time as the LED lights.
- ◇ **Independent:** LED indication and door opening operations are individually controlled with separate output bits. "Independent" is used when LED lighting and door opening operations are not interlocked.



Door opening operations and LED lighting are simultaneous.

Door opening operations and LED indication are "independent"

Door opening operations and LED lighting can be individually controlled. (Also they can be simultaneously controlled.)

Instruction: Door opening/closing (metal arm vertical) + LED (selection, combination)

◇ Response: Lever switch

- ◆ Door opening, closing (metal arm vertical) + LED indication (selection type, combination type) Interlocking type, independent type Lever switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
 + One color selection type LED	Lever switch	2	1	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-FK04V-P	Open
 + One color selection type LED	Lever switch	2	2	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-F2K04V-P	Open △
 + Combination type LED	Lever switch	2	3	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-FK06M-P	Open
 + Combination type LED	Lever switch	2	4	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-F2K08M-P	Open △

◇ Response: Pushbutton switch

- ◆ Door opening, closing (metal arm vertical) + LED indication (selection type, combination type) Interlocking type, independent type Pushbutton switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
 + One color selection type LED	Pushbutton	2	1	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-FK04VN-P	Open
 + One color selection type LED	Pushbutton	2	2	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-F2K04VN-P	Open
 + Combination type LED	Pushbutton	2	3	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-FK06MN-P	Open
 + Combination type LED	Pushbutton	2	4	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-F2K08MN-P	Open △

◇ Detection: Photoelectric downward reflection type

- ◆ Door opening, closing (metal arm vertical) + LED indication (selection type, combination type) Interlocking type, independent type Photoelectric downward reflection

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
 + One color selection type LED	Downward reflection	2	1	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-FK04VL-P	Open
 + One color selection type LED	Downward reflection	2	2	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-F2K04VL-P	Open △
 + Combination type LED	Downward reflection	2	3	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-FK06ML-P	Open
 + Combination type LED	Downward reflection	2	4	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-F2K08ML-P	Open △

*The above models are equipped with "H" holder as a standard.
 *When installing "H1" holder, add "-H1" at the end of the standard model.
 *When installing "SUS" holder, change the end of the standard model from "-P" to "-PS."



BL227XB-FK04V-P
BL227XB-F2K04V-P
BL227XB-FK06M-P
BL227XB-F2K08M-P



BL227XB-FK04VN-P
BL227XB-F2K04VN-P
BL227XB-FK06MN-P
BL227XB-F2K08MN-P



BL227XB-FK04VL-P
BL227XB-F2K04VL-P
BL227XB-FK06ML-P
BL227XB-F2K08ML-P

◆ Option

· Common

Product specifications		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
[H] holder	φ 28 pipe installation holder lower tightening type (including 5 pieces)	φ 28 pipe	34	A027-HP28-5P	Open
[H1] holder	φ 28 pipe installation holder back tightening type (including 5 pieces)	φ 28 pipe	34	A027-HP28-H1-5P	Open
[SUS] holder	SUS pipe installation holder (including 1 piece)	SUS pipe	34	A027-HP-SUS2	Open
Replacement rubber lever set (including cover, lever, ring respectively 5 pieces)		Terminal	-	A027-LES-01-5P	Open

*φ 28 pipe installation holder is included with the POKAYOKE terminal (φ 28 pipe installation type). Single part is an option for change of installation and repair.

◆ Address writer

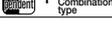


Product specifications		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
Address writer (general-purpose)		Non-contact type	34	ARW-04	Open
Infrared ray remote head for address writer		Non-contact type	-	ARW-RH	Open
Address writer ARW-04 + Infrared ray remote head		Non-contact type	-	ARW-04-RH	Open

Instruction: Door opening/closing (metal arm horizontal) + LED (selection, combination)

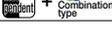
◇ Response: Lever switch

- ◆ Door opening, closing (metal arm horizontal) + LED indication (selection type, combination type) Interlocking type, independent type Lever switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
 + One color selection type LED	Lever switch	2	1	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-RK04V-P	Open △
 + One color selection type LED	Lever switch	2	2	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-R2K04V-P	Open △
 + Combination type LED	Lever switch	2	3	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-RK06M-P	Open △
 + Combination type LED	Lever switch	2	4	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-R2K08M-P	Open △

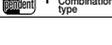
◇ Response: Pushbutton switch

- ◆ Door opening, closing (metal arm horizontal) + LED indication (selection type, combination type) Interlocking type, independent type Pushbutton switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
 + One color selection type LED	Pushbutton	2	1	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-RK04VN-P	Open △
 + One color selection type LED	Pushbutton	2	2	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-R2K04VN-P	Open △
 + Combination type LED	Pushbutton	2	3	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-RK06MN-P	Open △
 + Combination type LED	Pushbutton	2	4	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-R2K08MN-P	Open △

◇ Detection: Photoelectric downward reflection type

- ◆ Door opening, closing (metal arm horizontal) + LED indication (selection type, combination type) Interlocking type, independent type Photoelectric downward reflection

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
 + One color selection type LED	Downward reflection	2	1	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-RK04VL-P	Open △
 + One color selection type LED	Downward reflection	2	2	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-R2K04VL-P	Open △
 + Combination type LED	Downward reflection	2	3	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-RK06ML-P	Open △
 + Combination type LED	Downward reflection	2	4	6	Standby 19 Motion 522	φ 28 pipe	32	BL227XB-R2K08ML-P	Open △

*The above models are equipped with "H" holder as a standard.

*When installing "H1" holder, add "-H1" at the end of the standard model.

*When installing "SUS" holder, change the end of the standard model from "-P" to "-PS."



BL227XB-RK04V-P
BL227XB-R2K04V-P
BL227XB-RK06M-P
BL227XB-R2K08M-P



BL227XB-RK04VN-P
BL227XB-R2K04VN-P
BL227XB-RK06MN-P
BL227XB-R2K08MN-P



BL227XB-RK04VL-P
BL227XB-R2K04VL-P
BL227XB-RK06ML-P
BL227XB-R2K08ML-P

◆ Option

· Common

Product specifications		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
[H] holder	φ 28 pipe installation holder lower tightening type (including 5 pieces)	φ 28 pipe	34	A027-HP28-5P	Open
[H1] holder	φ 28 pipe installation holder back tightening type (including 5 pieces)	φ 28 pipe	34	A027-HP28-H1-5P	Open
[SUS] holder	SUS pipe installation holder (including 1 piece)	SUS pipe	34	A027-HP-SUS2	Open
Replacement rubber lever set (including cover, lever, ring respectively 5 pieces)		Terminal	-	A027-LES-01-5P	Open

*φ 28 pipe installation holder is included with the POKAYOKE terminal (φ 28 pipe installation type). Single part is an option for change of installation and repair.

◆ Address writer



Product specifications		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
Address writer (general-purpose)		Non-contact type	34	ARW-04	Open
Infrared ray remote head for address writer		Non-contact type	-	ARW-RH	Open
Address writer ARW-04 + Infrared ray remote head		Non-contact type	-	ARW-04-RH	Open

Instruction: Door opening/closing (plastic arm vertical) + LED (selection, combination)

◇ Response: Lever switch

- ◆ Door opening, closing (plastic arm vertical) + LED indication (selection type, combination type) Interlocking type, independent type Lever switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
Interlocked + One color selection type LED	Lever switch	2	1	6	Standby 19 Motion 522	φ28 pipe	33	BL227XB-F1K04V-P	Open
Independent + One color selection type LED	Lever switch	2	2	6	Standby 19 Motion 522	φ28 pipe	33	BL227XB-F3K04V-P	Open △
Interlocked + Combination type LED	Lever switch	2	3	6	Standby 19 Motion 522	φ28 pipe	33	BL227XB-F1K06M-P	Open
Independent + Combination type LED	Lever switch	2	4	6	Standby 19 Motion 522	φ28 pipe	33	BL227XB-F3K08M-P	Open △

◇ Response: Pushbutton switch

- ◆ Door opening, closing (plastic arm vertical) + LED indication (selection type, combination type) Interlocking type, independent type Pushbutton switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
Interlocked + One color selection type LED	Pushbutton	2	1	6	Standby 19 Motion 522	φ28 pipe	33	BL227XB-F1K04VN-P	Open
Independent + One color selection type LED	Pushbutton	2	2	6	Standby 19 Motion 522	φ28 pipe	33	BL227XB-F3K04VN-P	Open
Interlocked + Combination type LED	Pushbutton	2	3	6	Standby 19 Motion 522	φ28 pipe	33	BL227XB-F1K06MN-P	Open
Independent + Combination type LED	Pushbutton	2	4	6	Standby 19 Motion 522	φ28 pipe	33	BL227XB-F3K08MN-P	Open △

◇ Detection: Photoelectric downward reflection type

- ◆ Door opening, closing (plastic arm vertical) + LED indication (selection type, combination type) Interlocking type, independent type Photoelectric downward reflection

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
Interlocked + One color selection type LED	Downward reflection	2	1	6	Standby 19 Motion 522	φ28 pipe	33	BL227XB-F1K04VL-P	Open
Independent + One color selection type LED	Downward reflection	2	2	6	Standby 19 Motion 522	φ28 pipe	33	BL227XB-F3K04VL-P	Open △
Interlocked + Combination type LED	Downward reflection	2	3	6	Standby 19 Motion 522	φ28 pipe	33	BL227XB-F1K06ML-P	Open
Independent + Combination type LED	Downward reflection	2	4	6	Standby 19 Motion 522	φ28 pipe	33	BL227XB-F3K08ML-P	Open △

*The above models are equipped with "H" holder as a standard.
 *When installing "H1" holder, add "-H1" at the end of the standard model.
 *When installing "SUS" holder, change the end of the standard model from "-P" to "-PS."



BL227XB-F1K04V-P
 BL227XB-F3K04V-P
 BL227XB-F1K06M-P
 BL227XB-F3K08M-P



BL227XB-F1K04VN-P
 BL227XB-F3K04VN-P
 BL227XB-F1K06MN-P
 BL227XB-F3K08MN-P



BL227XB-F1K04VL-P
 BL227XB-F3K04VL-P
 BL227XB-F1K06ML-P
 BL227XB-F3K08ML-P

◆ Option

· Common

Product specifications		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
[H] holder	φ28 pipe installation holder lower tightening type (including 5 pieces)	φ28 pipe	34	A027-HP28-5P	Open
[H1] holder	φ28 pipe installation holder back tightening type (including 5 pieces)	φ28 pipe	34	A027-HP28-H1-5P	Open
[SUS] holder	SUS pipe installation holder (including 1 piece)	SUS pipe	34	A027-HP-SUS2	Open
Replacement rubber lever set (including cover, lever, ring respectively 5 pieces)		Terminal	-	A027-LES-01-5P	Open

*φ28 pipe installation holder is included with the POKAYOKE terminal (φ28 pipe installation type). Single part is an option for change of installation and repair.

◆ Address writer



Product specifications		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
Address writer (general-purpose)		Non-contact type	34	ARW-04	Open
Infrared ray remote head for address writer		Non-contact type	-	ARW-RH	Open
Address writer ARW-04 + Infrared ray remote head		Non-contact type	-	ARW-04-RH	Open

Instruction: Door opening/closing (metal arm vertical) + 7-segment (variable four digit) + LED (selection, combination)

◇ Response: Lever switch

- ◆ Door opening, closing (metal arm vertical) + 7-segment (variable four digit) + LED indication (selection type, combination type) Interlocking type, independent type Lever switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
+ One color selection type	Lever switch	2	1~17	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-FK7V4V-P	Open △
+ One color selection type	Lever switch	2	2~18	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F2K7V4V-P	Open △
+ Combination type	Lever switch	2	3~19	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-FK7V4M-P	Open △
+ Combination type	Lever switch	2	4~20	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F2K7V4M-P	Open △

◇ Response: Pushbutton switch

- ◆ Door opening, closing (metal arm vertical) + 7-segment (variable four digit) + LED indication (selection type, combination type) Interlocking type, independent type Pushbutton switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
+ One color selection type	Pushbutton	2	1~17	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-FK7V4VN-P	Open △
+ One color selection type	Pushbutton	2	2~18	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F2K7V4VN-P	Open △
+ Combination type	Pushbutton	2	3~19	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-FK7V4MN-P	Open △
+ Combination type	Pushbutton	2	4~20	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F2K7V4MN-P	Open △

◇ Detection: Photoelectric downward reflection type

- ◆ Door opening, closing (metal arm vertical) + 7-segment (variable four digit) + LED indication (selection type, combination type) Interlocking type, independent type Photoelectric downward reflection

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
+ One color selection type	Downward reflection	2	1~17	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-FK7V4VL-P	Open △
+ One color selection type	Downward reflection	2	2~18	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F2K7V4VL-P	Open △
+ Combination type	Downward reflection	2	3~19	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-FK7V4ML-P	Open △
+ Combination type	Downward reflection	2	4~20	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F2K7V4ML-P	Open △

*The above models are equipped with "H" holder as a standard.

*When installing "H1" holder, add "-H1" at the end of the standard model.

*When installing "SUS" holder, change the end of the standard model from "-P" to "-PS."



BL227XB-FK7V4V-P
BL227XB-F2K7V4V-P
BL227XB-FK7V4M-P
BL227XB-F2K7V4M-P



BL227XB-FK7V4VN-P
BL227XB-F2K7V4VN-P
BL227XB-FK7V4MN-P
BL227XB-F2K7V4MN-P



BL227XB-FK7V4VL-P
BL227XB-F2K7V4VL-P
BL227XB-FK7V4ML-P
BL227XB-F2K7V4ML-P

◆ Option

· Common

Product specifications	Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
[H] holder φ 28 pipe installation holder lower tightening type (including 5 pieces)	φ 28 pipe	34	A027-HP28-5P	Open
[H1] holder φ 28 pipe installation holder back tightening type (including 5 pieces)	φ 28 pipe	34	A027-HP28-H1-5P	Open
[SUS] holder SUS pipe installation holder (including 1 piece)	SUS pipe	34	A027-HP-SUS2	Open
Replacement rubber lever set (including cover, lever, ring respectively 5 pieces)	Terminal	-	A027-LES-01-5P	Open

*φ 28 pipe installation holder is included with the POKAYOKE terminal (φ 28 pipe installation type). Single part is an option for change of installation and repair.

◆ Address writer



Product specifications	Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
Address writer (general-purpose)	Non-contact type	34	ARW-04	Open
Infrared ray remote head for address writer	Non-contact type	-	ARW-RH	Open
Address writer ARW-04 + Infrared ray remote head	Non-contact type	-	ARW-04-RH	Open

Instruction: Door opening/closing (metal arm horizontal) + 7-segment (variable four digit) + LED (selection, combination)

◇ Response: Lever switch

- ◆ Door opening, closing (metal arm horizontal) + 7-segment (variable four digit) + LED indication (selection type, combination type) Interlocking type, independent type Lever switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
+	Lever switch	2	1~17	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-RK7V4V-P	Open △
+	Lever switch	2	2~18	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-R2K7V4V-P	Open △
+	Lever switch	2	3~19	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-RK7V4M-P	Open △
+	Lever switch	2	4~20	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-R2K7V4M-P	Open △

◇ Response: Pushbutton switch

- ◆ Door opening, closing (metal arm horizontal) + 7-segment (variable four digit) + LED indication (selection type, combination type) Interlocking type, independent type Pushbutton switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
+	Pushbutton	2	1~17	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-RK7V4VN-P	Open △
+	Pushbutton	2	2~18	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-R2K7V4VN-P	Open △
+	Pushbutton	2	3~19	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-RK7V4MN-P	Open △
+	Pushbutton	2	4~20	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-R2K7V4MN-P	Open △

◇ Detection: Photoelectric downward reflection type

- ◆ Door opening, closing (metal arm horizontal) + 7-segment (variable four digit) + LED indication (selection type, combination type) Interlocking type, independent type Photoelectric downward reflection

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
+	Downward reflection	2	1~17	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-RK7V4VL-P	Open △
+	Downward reflection	2	2~18	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-R2K7V4VL-P	Open △
+	Downward reflection	2	3~19	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-RK7V4ML-P	Open △
+	Downward reflection	2	4~20	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-R2K7V4ML-P	Open △

*The above models are equipped with "H" holder as a standard.

*When installing "H1" holder, add "-H1" at the end of the standard model.

*When installing "SUS" holder, change the end of the standard model from "-P" to "-PS."



BL227XB-RK7V4V-P
BL227XB-R2K7V4V-P
BL227XB-RK7V4M-P
BL227XB-R2K7V4M-P



BL227XB-RK7V4VN-P
BL227XB-R2K7V4VN-P
BL227XB-RK7V4MN-P
BL227XB-R2K7V4MN-P



BL227XB-RK7V4VL-P
BL227XB-R2K7V4VL-P
BL227XB-RK7V4ML-P
BL227XB-R2K7V4ML-P

◆ Option

· Common

Product specifications		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
[H] holder	φ 28 pipe installation holder lower tightening type (including 5 pieces)	φ 28 pipe	34	A027-HP28-5P	Open
[H1] holder	φ 28 pipe installation holder back tightening type (including 5 pieces)	φ 28 pipe	34	A027-HP28-H1-5P	Open
[SUS] holder	SUS pipe installation holder (including 1 piece)	SUS pipe	34	A027-HP-SUS2	Open
Replacement rubber lever set (including cover, lever, ring respectively 5 pieces)		Terminal	-	A027-LES-01-5P	Open

*φ 28 pipe installation holder is included with the POKAYOKE terminal (φ 28 pipe installation type). Single part is an option for change of installation and repair.

◆ Address writer



Product specifications		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
Address writer (general-purpose)		Non-contact type	34	ARW-04	Open
Infrared ray remote head for address writer		Non-contact type	-	ARW-RH	Open
Address writer ARW-04 + Infrared ray remote head		Non-contact type	-	ARW-04-RH	Open

Instruction: Door opening/closing (plastic arm vertical) + 7-segment (variable four digit) + LED (selection, combination)

◇ Response: Lever switch

- ◆ Door opening, closing (plastic arm vertical) + 7-segment (variable four digit) + LED indication (selection type, combination type) Interlocking type, independent type Lever switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
  + 	Lever switch	2	1~17	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F1K7V4V-P	Open △
  + 	Lever switch	2	2~18	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F3K7V4V-P	Open △
  + 	Lever switch	2	3~19	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F1K7V4M-P	Open △
  + 	Lever switch	2	4~20	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F3K7V4M-P	Open △

◇ Response: Pushbutton switch

- ◆ Door opening, closing (plastic arm vertical) + 7-segment (variable four digit) + LED indication (selection type, combination type) Interlocking type, independent type Pushbutton switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
  + 	Pushbutton	2	1~17	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F1K7V4VN-P	Open △
  + 	Pushbutton	2	2~18	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F3K7V4VN-P	Open △
  + 	Pushbutton	2	3~19	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F1K7V4MN-P	Open △
  + 	Pushbutton	2	4~20	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F3K7V4MN-P	Open △

◇ Detection: Photoelectric downward reflection type

- ◆ Door opening, closing (plastic arm vertical) + 7-segment (variable four digit) + LED indication (selection type, combination type) Interlocking type, independent type Photoelectric downward reflection

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
  + 	Downward reflection	2	1~17	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F1K7V4VL-P	Open △
  + 	Downward reflection	2	2~18	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F3K7V4VL-P	Open △
  + 	Downward reflection	2	3~19	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F1K7V4ML-P	Open △
  + 	Downward reflection	2	4~20	6	Standby 19 Motion 580	φ 28 pipe	33	BL227XB-F3K7V4ML-P	Open △

*The above models are equipped with "H" holder as a standard.

*When installing "H1" holder, add "-H1" at the end of the standard model.

*When installing "SUS" holder, change the end of the standard model from "-P" to "-PS."



BL227XB-F1K7V4V-P
BL227XB-F3K7V4V-P
BL227XB-F1K7V4M-P
BL227XB-F3K7V4M-P



BL227XB-F1K7V4VN-P
BL227XB-F3K7V4VN-P
BL227XB-F1K7V4MN-P
BL227XB-F3K7V4MN-P



BL227XB-F1K7V4VL-P
BL227XB-F3K7V4VL-P
BL227XB-F1K7V4ML-P
BL227XB-F3K7V4ML-P

◆ Option

· Common

Product specifications	Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
[H] holder φ 28 pipe installation holder lower tightening type (including 5 pieces)	φ 28 pipe	34	A027-HP28-5P	Open
[H1] holder φ 28 pipe installation holder back tightening type (including 5 pieces)	φ 28 pipe	34	A027-HP28-H1-5P	Open
[SUS] holder SUS pipe installation holder (including 1 piece)	SUS pipe	34	A027-HP-SUS2	Open
Replacement rubber lever set (including cover, lever, ring respectively 5 pieces)	Terminal	-	A027-LES-01-5P	Open

*φ 28 pipe installation holder is included with the POKAYOKE terminal (φ 28 pipe installation type). Single part is an option for change of installation and repair.

◆ Address writer



Product specifications	Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
Address writer (general-purpose)	Non-contact type	34	ARW-04	Open
Infrared ray remote head for address writer	Non-contact type	-	ARW-RH	Open
Address writer ARW-04 + Infrared ray remote head	Non-contact type	-	ARW-04-RH	Open

Instruction: Door opening/closing + LED (selection) Response: Lever switch type, photoelectric downward reflection type

- ◆ Door opening, closing + LED indication (selection type) Independent type Lever switch type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
+ One color selection type	Lever switch	2	2	6	Standby 19 Motion 522	φ28 pipe	34	BL227XB-F04V-P	Open

- ◆ Door opening, closing + LED indication (selection type) Independent type Photoelectric downward reflection type

Indication, instruction	Response, detection	Number of I/O points		Consumption current(mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
+ One color selection type	Downward reflection	2	2	6	Standby 19 Motion 522	φ28 pipe	34	BL227XB-F04VL-P	Open △

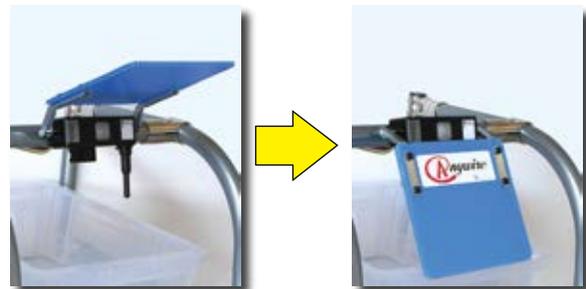
*The above models are equipped with “H” holder as a standard.
 *When installing “H1” holder, add “-H1” at the end of the standard model.
 *When installing “SUS” holder, change the end of the standard model from “-P” to “-PS.”



BL227XB-F04V-P

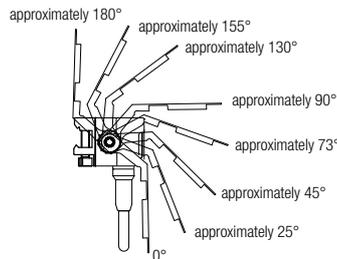


BL227XB-F04VL-P



“Address,” “Door arm raising and lowering angle” and “door arm lowering motion delay time” can be set by address writer.
 * “Door arm raising and lowering motion speed setting” cannot be performed.

□ Arm raising angle



Arm raising angle can be set at seven stages up to approximately 180°. Adjustment can be made when the door collides with the shelf or work. Write No. of approximate position where you want to stop the door in angle setting mode of the address writer.
 *The angle is an approximate one, and the angle cannot be strictly designated.

□ Arm lowering delay time

Set value	Delay time (Second)
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10

The arm is raised to the set angle by performing the door opening operations (output ON). Then, after performing the door closing operations (output OFF), it will be delayed for a certain period of time, and then the arm will be lowered to its original position. The delay time (0 to 10 seconds) from the door closing operations (output OFF) to descending to the original position can be set at 11 levels as shown in the table above.

◆ Option

· Common

Product specifications	Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
[H] holder φ28 pipe installation holder lower tightening type (including 5 pieces)	φ28 pipe	34	A027-HP28-5P	Open
[H1] holder φ28 pipe installation holder back tightening type (including 5 pieces)	φ28 pipe	34	A027-HP28-H1-5P	Open
[SUS] holder SUS pipe installation holder (including 1 piece)	SUS pipe	34	A027-HP-SUS2	Open
Replacement rubber lever set (including cover, lever, ring respectively 5 pieces)	Terminal	-	A027-LES-01-5P	Open

* φ28 pipe installation holder is included with the POKAYOKE terminal (φ28 pipe installation type). Single part is an option for change of installation and repair.

◆ Address writer



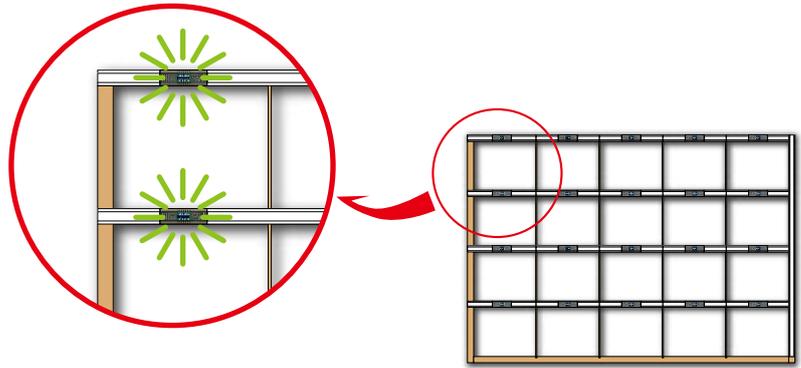
Product specifications	Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
Address writer (general-purpose)	Non-contact type	34	ARW-04	Open
Infrared ray remote head for address writer	Non-contact type	-	ARW-RH	Open
Address writer ARW-04 + Infrared ray remote head	Non-contact type	-	ARW-04-RH	Open

Indication: LED (selection, combination) Detection: Touch type (wire duct type, surface-emission type)

◆ LED indication (selection type, combination type) Touch type (wire duct type)



Indication, instruction	Response, detection	Number of I/O points		Consumption current (mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
		Input	Output	Transmission side	I/O side				
LED One color selection type	Touch	1	1	6	-	Double-sided tape	34	B292XB-02VL	Open △
LED Combination type	Touch	1	3	6	-	Double-sided tape	34	B292XB-06ML	Open △

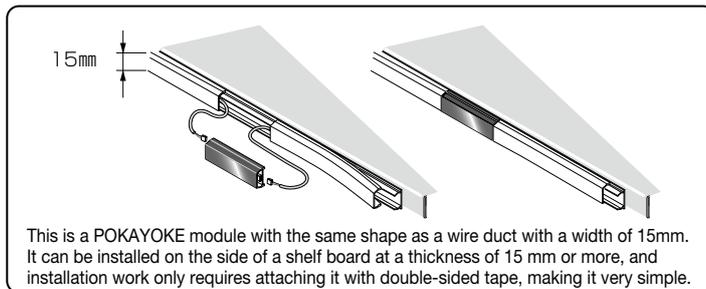


This is the most appropriate POKAYOKE terminal in the case that there are many small boxes like shelves for small parts and electronic parts.

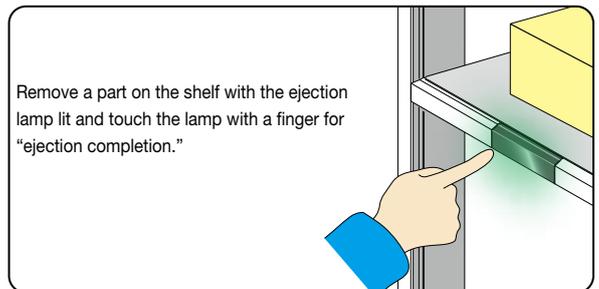
As it can be installed on a shelf board, etc., with a thickness of 15 mm or more, it can be utilized in various ways.

The display method is LED indication, and the input method is touch type (photoelectric reflection type). It responds just by lightly tapping the body by hand.

Since there are no moving parts, it is structured so that it does not easily break down.



This is a POKAYOKE module with the same shape as a wire duct with a width of 15mm. It can be installed on the side of a shelf board at a thickness of 15 mm or more, and installation work only requires attaching it with double-sided tape, making it very simple.



Remove a part on the shelf with the ejection lamp lit and touch the lamp with a finger for "ejection completion."

◆ Option

Product specifications	Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
Wire duct (1m)	Wire duct	34	A092-DM	Open
Cable with double-ended connectors (0.3sqx2 core 3cm)	Wire duct	34	A0102-CND-03	Open
Cable with double-ended connectors (0.3sqx2 core 5cm)	Wire duct	34	A0102-CND-05	Open
Cable with double-ended connectors (0.3sqx2 core 10cm)	Wire duct	34	A0102-CND-10	Open
Cable with double-ended connectors (0.3sqx2 core 15cm)	Wire duct	34	A0102-CND-15	Open
Cable with double-ended connectors (0.3sqx2 core 20cm)	Wire duct	34	A0102-CND-20	Open
Transmission cable (0.3sqx2 core 20cm)	Wire duct	34	A0102-CNE-20	Open

◆ LED indication (selection type) Touch type (surface-emission type)



Indication, instruction	Response, detection	Number of I/O points		Consumption current (mA)		Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
LED One color selection type	Touch	Input	Output	Transmission side	I/O side				
	Touch	1	1	3	14.8	Magnet	34	BL2101XB-02VL-P	Open △

◆ Address writer



Product specifications	Installation	Page of Outline Dimensional Drawings	Model	Standard price (¥)
Address writer (general-purpose)	Non-contact type	34	ARW-04	Open
Infrared ray remote head for address writer	Non-contact type	-	ARW-RH	Open
Address writer ARW-04 + Infrared ray remote head	Non-contact type	-	ARW-04-RH	Open

Terminator (terminator for AnyWireASLINK)

◆Terminator (Waveform shaping module)



Product specifications	Dimensions (mm)	Model	Standard price(¥)
Transmission wave shaping module (with polarity) cable connection (attachment holder included)	44x24.5x12	BTO	Open

Filter (filter for AnyWireASLINK)

◆Filter



Product specifications	Dimensions (mm)	Model	Standard price(¥)
Filter for 24V line	92x53x41	ANF-01	Open

*If any of the side-by-side lines of DP, DV, 24V and 0V exceeds the total length of 50m in a power supply system to be supplied, insert this filter.

*Sufficiently confirm the specifications referring to the Product Guide (Product instruction manual).

Accessories

◆AnyWire Cable/Connector (AnyWire transmission cable & connector)

Product specifications	Details	Model	Standard price (¥)							
Flat cable (100m winding) (Conductor resistance 0.015Ω/m-Allowable current 12.7A)	4-core flat cable (AWG16 (1.25sq) × 4-core Insulating coating outer diameter φ2.5±0.1mm)	FK4-125-100	Open							
LP connector (10 connectors included) *Crimp type link connector (Allowable current 5A) Body color Red: for wire diameter size 1.25sqBlack: for wire diameter size 0.75sq	<table border="1"> <tr> <td rowspan="2">pole</td> <td>For 4-core flat cable (1.25sq) (coating outer diameter φ2.54mm Cover: White Body: Red) Pin protector type</td> <td>LP4-WR-10P</td> <td>Open</td> </tr> <tr> <td>For cabtire cable (Coating outer diameter φ2.1 to 2.4mm Cover: Orange Body: Black)</td> <td>LP4-OR-10P</td> <td>Open</td> </tr> </table>	pole	For 4-core flat cable (1.25sq) (coating outer diameter φ2.54mm Cover: White Body: Red) Pin protector type	LP4-WR-10P	Open	For cabtire cable (Coating outer diameter φ2.1 to 2.4mm Cover: Orange Body: Black)	LP4-OR-10P	Open		
pole	For 4-core flat cable (1.25sq) (coating outer diameter φ2.54mm Cover: White Body: Red) Pin protector type		LP4-WR-10P	Open						
	For cabtire cable (Coating outer diameter φ2.1 to 2.4mm Cover: Orange Body: Black)	LP4-OR-10P	Open							
Crimping tool for LP connector	Crimping tool dedicated to LP connector (The connector can be crimped by pliers, etc., however, a dedicated tool is recommended)	LP-TOOL	Open							

◇Flat cable appearance photo



4-core flat cable
AWG16 (1.25sq)×4-core
(DN:DP:0V:24V from the left)



When using in combination with the dedicated flat cable and LP connector (link connector), connect wires so that the black electric wire (DN line) is on the hinge side (No. 1) of the connector body as shown in the photo.

< MEMO >

Master Units

- ◆ Interface for each MELSEC series
- ◆ Bridge unit for CC-Link/CC-Link IE Field

 <p>MELSEC iQ-R AnyWireASLINK Master unit</p> <p>RJ51AW12AL *Sold by Mitsubishi Electric Corporation</p>	Corresponding CPU*1	R04CPU, R120CPU, R32ENCPU, R32PCPU, R32SFCPU-SET, R08CPU, R04ENCPU, R120ENCPU, R120PCPU, R120SFCPU-SET, R16CPU, R08ENCPU, R08PCPU, R08SFCPU-SET, R12CCPU-V R32CPU, R16ENCPU, R16PCPU, R16SFCPU-SET,			
	Power supply	Circuit: (supplied from iQ-R bus side)	Voltage +5[V]±5% Current 0.2[A] max.		
		Transmission line driver: (Supplied to front panel terminal)	Voltage 24[V] DC +15 to -10% (21.6 to 27.6[V] DC) Ripple 0.5[V]p-p max. Current 0.1[A] (when 128 slave units are connected, not including load current)		
	Number of occupied input/output points	32 points (I/O allotment: Interior 32 points)			
	Outer dimensions (mm)	106.0(H)×27.8(W)×124(D)		Mass	200g
 <p>MELSEC-L AnyWireASLINK Master unit</p> <p>LJ51AW12AL *Sold by Mitsubishi Electric Corporation</p>	Corresponding CPU*1	L02SCPU, L02SCPU-P, L02CPU, L02CPU-P, L06CPU, L06CPU-P, L26CPU, L26CPU-P, L26CPU-BT, L26CPU-PBT, LJ26GF15-T2			
	Power supply	Circuit: (supplied from L bus side)	Voltage +5[V]±5% Current 0.2[A] max.		
		Transmission line driver: (Supplied to front panel terminal)	Voltage 24[V] DC +15 to -10% (21.6 to 27.6[V] DC) Ripple 0.5[V]p-p max. Current 0.1[A] (when 128 slave units are connected, not including load current)		
	Number of occupied input/output points	32 points (I/O allotment: Interior 32 points)			
	Outer dimensions (mm)	90.0(H)×28.5(W)×104.5(D)		Mass	200g
 <p>MELSEC-Q AnyWireASLINK Master unit</p> <p>QJ51AW12AL *Sold by Mitsubishi Electric Corporation</p>	Corresponding CPU*1	Q00JCPU, Q02PHCPU, Q01UCPU, Q26UDHCPU, Q50UDEHCPU, Q06CCPU-V, Q00CPU, Q06PHCPU, Q02UCPU, Q03UDECPU, Q100UDEHCPU, Q06CCPU-V-B, Q01CPU, Q12PHCPU, Q03UDCPU, Q04UDEHCPU, Q03UDVCPU, Q12DCCPU-V, Q02CPU, Q25PHCPU, Q04UDHCPU, Q06UDEHCPU, Q04UDVCPU, Q24DHCCPU-V Q02HCPU, Q12PRHCPU, Q06UDHCPU, Q10UDEHCPU, Q06UDVCPU, Q06HCPU, Q25PRHCPU, Q10UDHCPU, Q13UDEHCPU, Q13UDVCPU, Q12HCPU, Q00JCPU, Q13UDHCPU, Q20UDEHCPU, Q26UDVCPU, Q25HCPU, Q00UCPU, Q20UDHCPU, Q26UDEHCPU, Q06CCPU-V-H01,			
	Power supply	Circuit: (supplied from Q bus side)	Voltage +5[V]±5% Current 0.2[A] max.		
		Transmission line driver: (Supplied to front panel terminal)	Voltage 24[V] DC +15 to -10% (21.6 to 27.6[V] DC) Ripple 0.5[V]p-p max. Current 0.1[A] (when 128 slave units are connected, not including load current)		
	Number of occupied input/output points	32 points (I/O allotment: Interior 32 points)			
	Outer dimensions (mm)	98.0(H)×27.4(W)×100.0(D)		Mass	200g
 <p>MELSEC iQ-F AnyWireASLINK Master unit</p> <p>FX5-ASL-M *Sold by Mitsubishi Electric Corporation</p>	Corresponding CPU*1	FX5U, FX5UC			
	Power supply	Circuit: (Supplied from additionally installed cable side)	Voltage +5[V] Current 0.2[A] max.		
		Transmission line driver: (Supplied to front panel terminal)	Voltage 24[V] DC +15 to -10% (21.6 to 27.6[V] DC) Ripple 0.5[V]p-p max. Current 0.1[A] (when 128 slave units are connected, not including load current)		
	Number of occupied input/output points	8 points			
Outer dimensions (mm)	90.0(H)×40.0(W)×97.3(D)		Mass	200g	
 <p>MELSEC-F AnyWireASLINK Master block</p> <p>FX3U-128ASL-M *Sold by Mitsubishi Electric Corporation</p>	Corresponding CPU*1	FX3G (Ver.1.00~) , FX3U (Ver.2.20~) , FX3GC (Ver.1.40~) , FX3UC (Ver.2.20~)			
	Power supply	Circuit: (Supplied from additionally installed cable side)	Voltage +5[V] Current 0.13[A] max.		
		Transmission line driver: (Supplied to front panel terminal)	Voltage 24[V] DC +15 to -10% (21.6 to 27.6[V] DC) Ripple 0.5[V]p-p max. Current 0.1[A] (when 128 slave units are connected, not including load current)		
	Number of occupied input/output points	8 points			
Outer dimensions (mm)	90.0(H)×43.0(W)×95.5(D)		Mass	200g	
 <p>CC-Link-AnyWireASLINK Bridge unit</p> <p>NZ2AW1C2AL *Sold by Mitsubishi Electric Corporation</p>	OpenFieldBus side Support protocol	CC-Link Ver. 1.10, Ver. 2.00 (Switched by setting)			
	Power supply	Transmission line driver: (Supplied to front panel terminal)	Voltage 24[V] DC +15 to -10% (21.6 to 27.6[V] DC) Current 0.2[A] (when 128 slave units are connected, not including load current)		
		Number of occupied stations	Set to Ver. 1.10 (1 station, 2 stations, 3 stations, 4 stations selected) or Ver. 2.00 (4 stations fixed, expanded 2 times setting)		
	Outer dimensions (mm)	105.5(H)×43(W)×86(D)		Mass	200g
 <p>CC-Link IE Field-AnyWireASLINK Bridge unit</p> <p>NZ2AW1GFAL *Sold by Mitsubishi Electric Corporation</p>	OpenFieldBus side Support protocol	Corresponding CC-Link IE Field			
	Power supply	Transmission line driver: (Supplied to front panel terminal)	Voltage 24[V] DC +15 to -10% (21.6 to 27.6[V] DC) Current 0.3[A] (when 128 slave units are connected, not including load current)		
		Outer dimensions (mm)	105.5(H)×43(W)×86(D)		Mass

*1 Confirm details for the corresponding CPU and other limitations with the AnyWireASLINK master unit users manual of each product published by Mitsubishi Electric Corporation.

Master Units

◆ Gateway for OpenFieldBus/EtherNet

 B2G78-D1	OpenFieldBus side Support protocol	DeviceNet				
	Power supply	Transmission line driver: (Supplied to front panel terminal)	Voltage 24[V] DC +15 to -10% (21.6 to 27.6[V] DC) Ripple 0.5[V]p-p max. Current 0.15[A] (when 128 slave units are connected, not including load current)			
	Outer dimensions (mm)	105.8(H)×43.0(W)×86.0(D)	Mass	190g	Standard price (¥)	Open
 B2G78-PB1	OpenFieldBus side Support protocol	PROFIBUS				
	Power supply	Transmission line driver: (Supplied to front panel terminal)	Voltage 24[V] DC +15 to -10% (21.6 to 27.6[V] DC) Ripple 0.5[V]p-p max. Current 0.15[A] (when 128 slave units are connected, not including load current)			
	Outer dimensions (mm)	105.8(H)×43.0(W)×86.0(D)	Mass	190g	Standard price (¥)	Open
 B2G78-E1	OpenFieldBus side Support protocol	MC protocol EtherNet/IP EtherIP command: Responding to List Service, List Identity, Register Session, Send RR Data, SendUnit data CIP command: Responding to Get Attribute All, Get Attribute Single, Send Unit Data Modbus/TCP Response command (0x02) Read Discrete Inputs: BIT IN, (0x01) Read Coils: BIT OUT, (0x05) Write Single Coils: BIT OUT (0x04) Read Input Registers: WORD IN, (0x03) Read Holding Registers: WORD OUT (0x06) Write Single Register: WORD OUT, (0x10) Read Multiple Registers: WORD OUT				
	Power supply	Transmission line driver: (Supplied to front panel terminal)	Voltage 24[V] DC +15 to -10% (21.6 to 27.6[V] DC) Ripple 0.5[V]p-p max. Current 0.15[A] (when 128 slave units are connected, not including load current)			
	Outer dimensions (mm)	105.8(H)×43.0(W)×86.0(D)	Mass	190g	Standard price (¥)	Open

*2 Contact our sales division for digital link function relationship of B2G78-D1, B2G78-PB1 and B2G78-E1.

◆ Master interface for PC bus

 B2P8-E01	PCI Express-side specifications	Compatible with PCI Express 2.0 (Gen2) ×1 lane (Available by ×1, ×4, ×8, ×16 slot) Compatible with low profile (brackets for low profile and standard profile are attached.)				
	Power supply	Transmission line driver: (Supply to connector terminals on the bracket face.)	Voltage 24[V] DC +15 to -10% (21.6 to 27.6[V] DC) Ripple 0.5[V] p-p max. Current 0.1[A] (when 128 slave units are connected, not including load current)			
	Outer dimensions (mm)	67.9(W)×167.6(D) (Master I/F board only)	Mass	65g (When mounting a bracket for low profile)	Standard price (¥)	Open

*3 Contact our sales division for digital link function relationship of B2P8-E01.

◆ Resend Unit

 BR27-01	Product specifications	Transmission between input terminal and output terminal with the same address setting is conducted. Ex) When an input is made into the input terminal with address of 50, the output signal is mechanically transmitted to the output terminal with address No. 50.				
	Power supply	Transmission line driver: (Supplied to connector terminal)	Voltage 24[V] DC +15 to -10% (21.6 to 27.6[V] DC) Ripple 0.5[V] p-p max. Current 0.1[A] (when 128 slave units are connected, not including load current)			
	Outer dimensions (mm)	40.0(H)×100.0(W)×48.0(D)	Mass	66g	Standard price (¥)	Open

*4 Contact our sales division for digital link function relationship of BR27-01.

◆ Bridge for AnyWire DB A20

 AB27-AL	Connection specifications	AnyWireASLINK DB A20 series (AnyWire BUS dedicated protocol) (Usable by 31.3kHz setting, only one unit is connectable)				
	Power supply	Transmission line driver: (Supplied to connector terminal)	Voltage 24[V] DC +15 to -10% (21.6 to 27.6[V] DC) Ripple 0.5[V] p-p max. Current 0.1[A] (when 128 slave units are connected, not including load current)			
	Outer dimensions (mm)	40.2(H)×100.0(W)×40.0(D)	Mass	69g	Standard price (¥)	Open

*5 Contact our sales division for digital link function relationship of AB27-AL.

Address setting method

Address setting method for the AnyWire POKAYOKE terminal is to use an address writer to read and write address in a non-contact state.

Set an address by directing infrared ray by the address writer to the setting port.

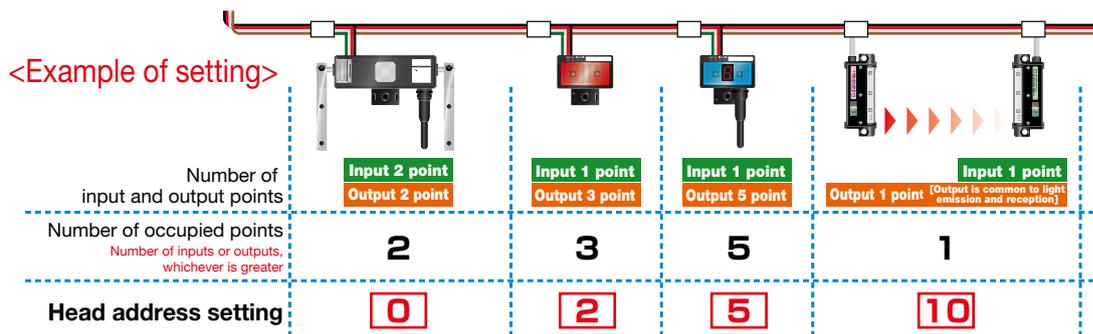


Structure of address

AnyWire POKAYOKE terminals inform of the existence of terminals to a controller on the upper order by setting the head address of individual terminals. The address is represented by a decimal number, and can be set in units of 1 bit.

*Maximum number of points varies with the system configuration. Contact us for details.

Examples of setting in the case that some types of POKAYOKE terminals are combined are shown below.



The address of the first address is "0." Then, the address of the next terminal is, as a rule,

"address set value of immediately previous terminal" +

"number of occupied points of immediately previous terminal (Number of inputs or outputs, whichever is greater),"

and values for the number of occupied points are sequentially added. As the number of occupied points differs with each terminal, refer to and confirm by the introduction page of each product.

It is not necessary that the address set values are in connecting order. If addresses are set without duplication even when the connecting orders are exchanged by remodeling or expansion, operation can be made. And it is not necessary to always set without a margin. If there are number of points to spare and expansion, etc., is expected in the future, skip some addresses when setting.

Address setting by address writer

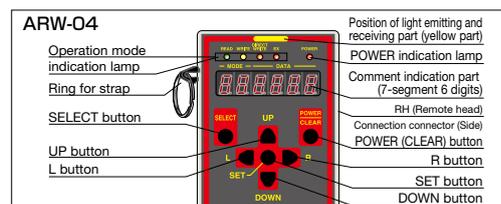


Address writer ARW-04

When it is difficult to hold ARW-04 at narrow locations, use an optional remote head. (Model: ARW-RH)



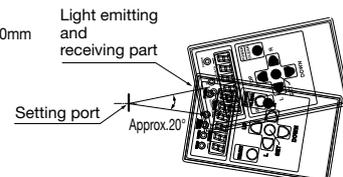
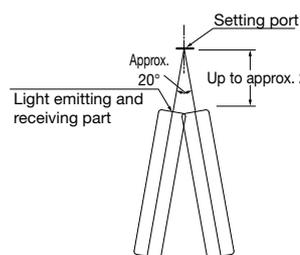
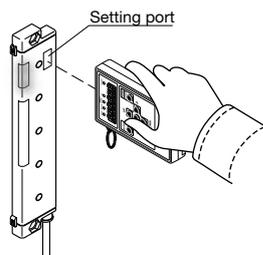
Name of each part



Reference of approach when address is set and confirmed

(Image of operation)

*Example: ARW-04 and POKAYOKE terminal of photoelectric transmission type



When setting an address, be careful of the following.

- ◇ Perform operations of address setting by the address writer with transmission signal and power fed to the POKAYOKE terminal, and reset the power after completion of setting to reflect the setting.

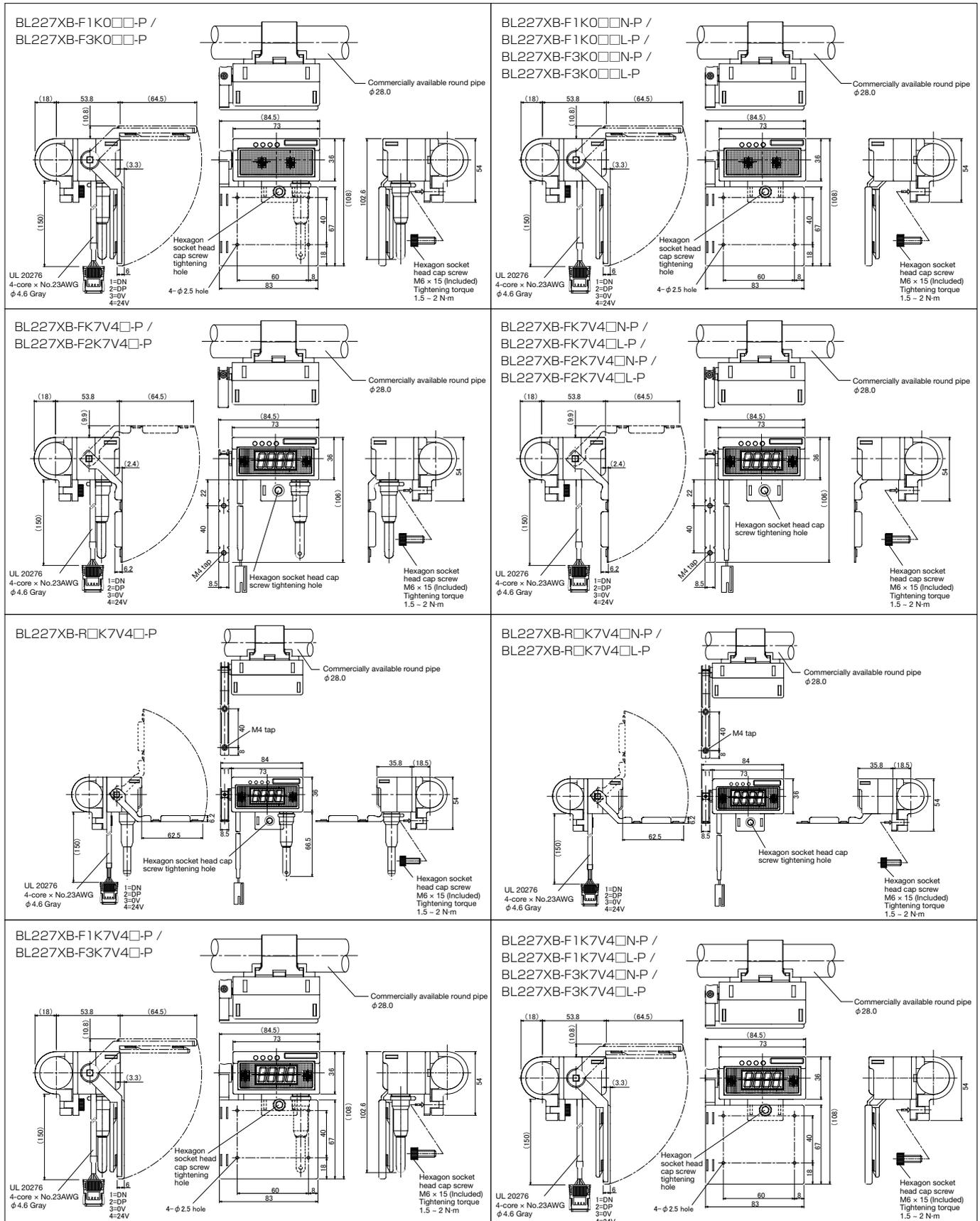
When any change is made in direct mode, the changed content is immediately reflected, therefore, unexpected motion may be caused, and this is very dangerous.

- ◇ Refer to and confirm by the manual for details.

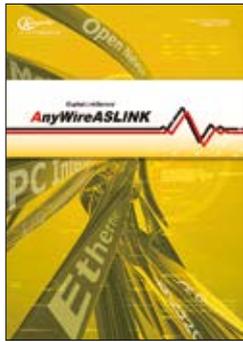
< MEMO >

Outline Dimensional Drawings

Unit: mm



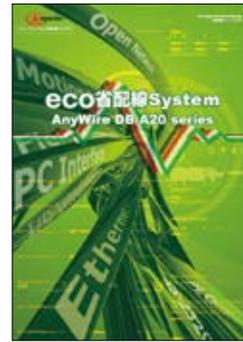
*Refer to page 34 for Outline Dimensional Drawings of $\phi 28$ pipe installation holder and SUS pipe installation holder.



AnyWireASLINK system catalog



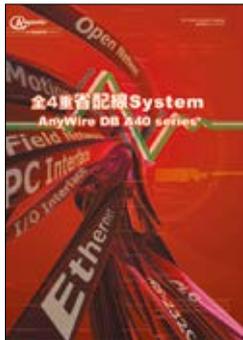
AnyWireASLINK system Introduction Case Examples



DB A20 series catalog



POKAYOKE catalog



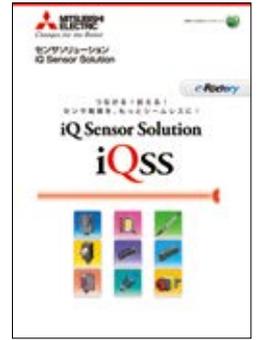
DB A40 series catalog



Energy monitoring energy saving support catalog



MITSUBISHI & Anywire L (NA) 08198



Sensor solution iQ Sensor Solution L (NA) 08253

Mitsubishi Electric Corporation Product catalog

Contact

Contact by mail info_e@anywire.jp

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

Price, specifications and design may be subject to change without notice.

<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 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 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 reason of 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 damage 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.

<Notes on Safety>

System Safety: This system is intended for general industrial applications. It does not include functions for supporting applications requiring higher levels of safety such as safety-related devices or accident prevention systems. The product must not be used for these purposes. Always turn off the power before attempting to mount or replace. System power supply: Use a stable, 24V DC power supply. Use of an unstable power supply may cause problems with the system. Separately route high-voltage and power cables: Although the system has a high noise margin, separate the transmission line and the input/output cables from the high voltage line and the power line. Connector and terminal connection: Pay careful attention to the length and installation of cable wiring to ensure that connectors and cables are neither overloaded nor disconnected. Make sure to prevent any metal objects from getting inside the connectors or the terminal blocks. Short-circuits caused by metal objects or mis-wiring are likely to damage the device. Do not impose any external loads on the units. Doing so may cause a failure. Do not disconnect or reconnect between the transmission line and slave units. A malfunction may occur. Use the POKAYOKE terminal series, DB A20 series, Bitly series within the range of the specifications and conditions specified in each manual.

Anywire



ISO9001 / 1400 Certification

Anywire Corporation

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http://www.anywire.jp

ISO9001 Applicable scope: Headquarters, East Japan Office, Kyoto Factory ISO14001 Applicable scope: Headquarters, Kyoto Factory

Comments/suggestions about AnyWire products: