## Anywire AnyWire System Products Guide

## AnyWire Bitty series POKA-YOKE Terminal



## Replaceable lever input

Eject indicator lamp (Green) (Red)
Protruding transmission line and flat cable

The AnyWire System Products Guide describes individual products. Refer to the Guide as necessary.

## [Notes on Safety]

Precautions that must be observed in order to use this system safely are indicated as shown below.
You must observe these precautions.


A WARNING indicates a potentially hazardous situation which, if not handled correctl $y$, could result in death or serious injury.


A CAUTION indicates a potentially hazardous situation which, if not handled correctl y , may result in personal injury or property damage.
O System Safety
This system is intended for general industrial applications. It does not have functions for supporting applications requiring $h$ igher levels of safety such as safety-related devices or accident prevention systems. The product must not be used for these purposes.

O Always turn off the power before attempting to mount or replace.

## O System power supply

Use a stable, 24V DC power supply. Use of an unstable power supply may cause problems with the system.
O Separately route high-voltage and power cables
Although the AnyWire Bitty Series has a high noise margin, keep the transmission line and I/O cables away from high-voltage and power cables. O Connectors and terminals

* Pay careful attention to the length and installation of cable wiring to ensure that connectors and cables are neither overloade d nor disconnected.
* Make sure to prevent any metal objects from getting inside the connectors or the terminal blocks.
* Short-circuits caused by metal objects or mis-wiring are likely to damage the device.

O Do not impose any external loads on the units. Doing so may cause a failure.
O Do not disconnect or reconnect between the transmission line and slave units. A malfunction may be caused.
O Do not use for power supply of AnyWire Bitty series and for switching parallel signal for SBC (Single Board Controller) and controller, etc.
Commonalization of mutual power supply systems may result in system failure.
O Use the AnyWire Bitty series within the range of the specifications and conditions shown below.

## [Features]

* This product is compatible with the AnyWire Bitty series.
* This product has a replaceable lever switch (input) and an indication to direct ejection (output) function.
* This product can be laid out with a $\varphi 28$ pipe.
* Transmission and power supply can be connected with a 4-wire connection.
* This product has a flat cable equipped with a link connector for transmission line connection.
* The distance for transmission is 100 m , and up to 128 units can be connected.
(Power supply to the entire system)
* The lever can be replaced.


## [Type]

## Bit Operation

| A027XB-02G2-P | One point input | Eject check input |
| :---: | :---: | :---: |
|  | One point output | Eject indicator lamp (Green) |
| A027XB-02R2-P | One point input | Eject check input |
|  | One point output | Eject indicator lamp (Red) |

## [Warranty]

- Warranty period

The warranty on the delivered Product shall continue to be effective for one (1) year after the delivery thereof to a location as designated by the original owne r .

- Scope of warranty

Should a defect occur in any part of the Product during the foregoing warranty period when it is used normally in acordance with the specifications described in this User's Manual, the Company shall replace or repair the defect free of charge, except when it arises as a result of:
[1] Misuse or abuse of the Product by the owner;
[2] Fault caused by other than the delivered Product;
[3] The unauthorized modification or repair of the Product by any person other than the Company's personnel;
[4] Any unusual force of nature, disaster or other cause beyond the Company's control.
The term "warranty," as used herein, refers to the warranty applicable to the delivered product alone. The Company shall not be liable for consequential or incidental damages resulting from any malfunction.
$\square$ 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.

－This terminal has a monitor function．
－LINK indicator indicates the state of the system as shown in the table on the right．
－In cases other than normal indications， immediately turn off the power and eliminate the associated cause then turn on again after checking safety．

LINK indicator Eject indicator lamp


| Indication LED | Indicated state | Monitor information |
| :---: | :---: | :---: |
| LINK <br> （Red） | Flashing＇‘‘＇ | Transmission signal received |
|  | Goes out | Disconnection of power |
|  | Lights up | Abnormal transmission <br> （disconnection，short－circuit） |
|  | Gights up | Eject indicaton |

＇${ }^{\circ}$ ．Lights up
Goes out

## ［Address Setting］

－Address numbers are used to correspond to the I／O memory map of the controller．

## －Bit operation terminal

The numbers set with the address setting switch of the terminal correspond to the addresses of the ＂eject indicator lamp（output）＂and the＂eject check switch（input），＂respectively．
This terminal performs word－by－word data verification and update．
－You can set addresses on a point－by－point basis．
－The DIP switch value is set as the same address for the input and output．
－It is registered as the＂Input unit＂in registration by address automatic recognition operation on the AnyWire Master side．

## ［Specifications］

## ［Power Consumption／Mass］

| Item | Specification |
| :---: | :---: |
| Rated power supply voltage | 24V DC（Power supply from AnyWire Master unit．） |
| Allowable power voltage range | 21．6V DC－27．6V（24V DC＋15\％－－10\％） |
|  | Ripple 0．5Vp－p |
| Ambient temperature use | $0-+55^{\circ} \mathrm{C}$ |
| Ambient humidity use | 35－85\％RH No condensation |
| Temperature／humidity storage | $-20-+70^{\circ} \mathrm{C} / 35-95 \% \mathrm{RH}$ |
| Atmosphere | No corrosive gas |
| Noise resistance | 1200Vp－p（Pulse width $1 \mu s$ ） |
| Transmission method | DC power supply superimposed total frame／cyclic method |
| Synchronization method | Frame／bit synchronization method |
| Transmission procedure | Dedicated protocol（AnyWire Bus） |
| Transmission clock | 27.8 kHz （when using AB023－प口口） |
| Transmission cycle time | 5.5 ms （when setting input 128 points，output 128 points） Note ）Transmission delay time is 1 cycle to 2 cycle time． |
| Connection mode | Bus type（Multi－drop method，T－branch method，Tree branch method） 4 －wire power batch supply method |
| Address setting range | 0－255 |
| Number of connection points | Up to 128 units（Connect to A027XB－02口2－P only） |
| Transmission distance | Up to 100 m （ $0.75 \mathrm{~mm}^{2}$ when using our flat cable） |
| Number of simultaneously output on points | 128 points（When using an indication output test only） |
| Number of occupied data items | Input 1 bit／output 1 bit |


| Type | Power Consumption | Mass |
| :---: | :---: | :---: |
| A027XB－02 $\square 2-\mathrm{P}$ | During standby ： 10 mA <br> While the indication is ON ：20mA | 100 g |

Make sure to supply power to 24V DC line for A027XB－02■2－P from the power supply which is supplied to the AnyWire Master．

## ［Installation Location］

＊Location where the unit will not be subject to vibration or shock．
＊Do not install the POKA－YOKE Terminal（AU27XB－02口2－P）lengthwise．
＊Where the body is not exposed to waste metal or sputter．
＊Location where humidity is 35 to $85 \% \mathrm{RH}$ ，non－condensing．
＊Location where the atmosphere is free of corrosive gas，flammable gas， and sulfur
＊Location where there are no high－voltage or high－current cables．
＊Location where there are no cables and controllers that generate servo inverter，or other high－frequency noise．

This unit does not have any special protective structure．


Do not install the unit lengthwise．


Protect the unit from shock（no more than 0.49 G）．It may cause damage．


Do not install the unit in a location subject to constant vibration．

Hook the boss of fitting B onto the hinge part of the body.


Hook fitting B onto the pipe, and then pull the body to make the connection. When the body piece snaps into the flute of fitting $B$, a temporary fixing has been made.

Slide the body to adjust the position.

Once the position has been determined, fasten fitting $B$ to the pipe with the provided bolts.

M6 bolt fastening torque: 1.5-2 N-m



## [How to Replace the Lever]

## Removal of Rubber Lever

(1) Push the black part of the retention ring for the rubber lever in the direction of B and release the stopper fitting to loosen the ring.


View A

(2) Remove the rubber lever from the rubber lever fixture in order ( ${ }^{(1) \rightarrow \text { (2) }) \text {. }}$


## Mounting the Rubber Lever

(1) Ensure that a rubber lever fixture has been pushed completely into the boot section and place the retention ring over the rubber lever. Use a new retention ring for the rubber lever.

(2) Mount the retention ring for the rubber lever to the (D) position (Rubber lever boot section) in the front view.
Fasten the outer circumference of the rubber lever boot section after pushing the black mark part in the direction of $C$ with pliers, etc., and matching the stopper piece until $D$ and $E$ contact each other (Refer to F). After fastening, pull the lever and ensure that the lever is securely fixed.



## [Address]

## Anywire Anywire Corporation

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

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

