

Ultimate jig, model identification Five bit system!!

How can you identify a jig, and a die?
B&PLUS 5bit system can

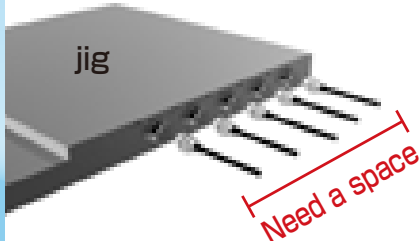
easily! certainly! at low-cost!

identify Maximum 5 bit=32!

5

Case 1

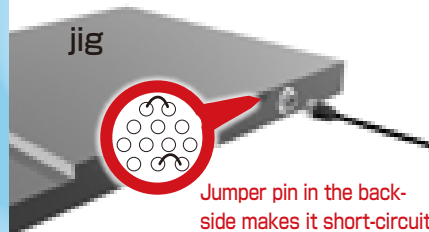
The machine flag which arranged proximity



- Need a space
- When it gets out of position and detects, it turns out to become a different data.

Case 2

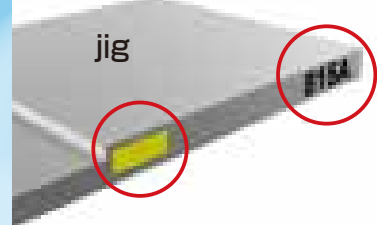
The short circuit connector Identification.



- Need a person to pull a connector only for identification.
- Damage, abrasion of a connector
- Forgets to pull a connector

Case 3

Visual observation, owing to a worker, of the marking and color identification.

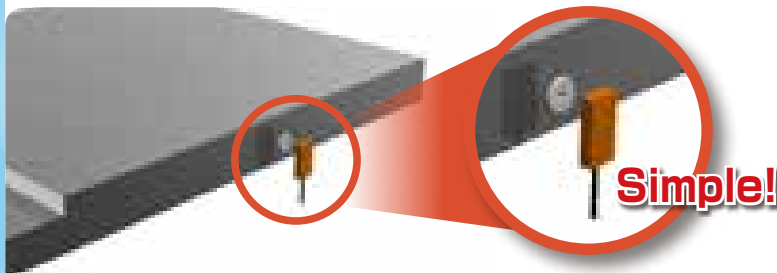


- In the case of marking identification, it is left to a worker; a burden on worker.
- In the case of color discrimination, lack of color and the deterioration of the color cannot be distinguished.

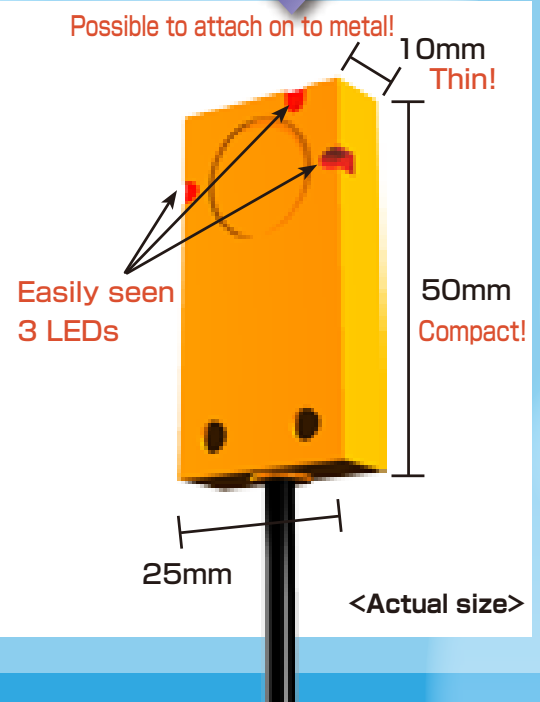
Easily Introduced! Simple improvement!

When use 5bit by B&PLUS.....

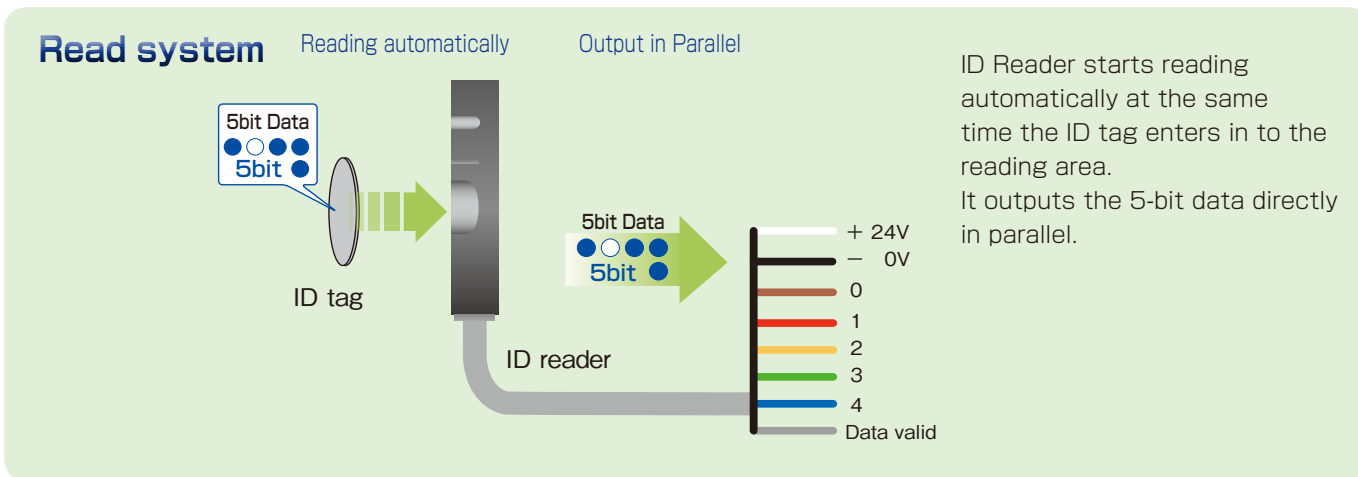
One reader can solve the problems!



- Stick the ID tag on to the model that wants to be identified.
Easy to input data!
- Waterproofness of IP67.
- Just by bring a leader close to an ID tag!
- 5bit parallel output.
Just putting the lines into the same inputting unit!



Construction of the system



Reader

Type code	NPN	Z5-EA05N-__
	PNP	Z5-EA05P-__
Supply voltage / Current draw	24V DC \pm 10% (including ripple) / max.50mA	
Output signal	Parallel(8bit+Data valid)	
Frequency	Comply with ISO 15693	
Operating / Storage temperature	0...+50°C	
Operating / Storage temperature	35...90%RH	
Protection class	IP67	
ID tag data reading time	50ms Reading automatically	
Weight	Body 20g + Cable 50g/m	
Maximum cable length	10m	
Regular cable length	2 m (Model end __02 \Rightarrow 2m, 05 \Rightarrow 5m, 10 \Rightarrow 10 m)	
Connecting cable	PVC, ϕ 5.5, 8xAWG24	
Cable bend radius	33mm	
Installation screw / clamping torque	M4 / 1.2N · m	



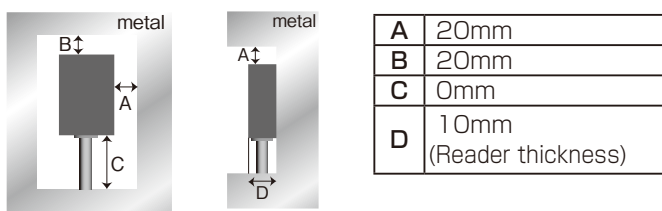
Mounting

To avoid the surrounding metal and mutual interference when you install Reader, please keep area greater than or equal to value shown in below table. Also, if the non-metallic area depends on the combination of ID tag and Read/write head, please keep non-metallic area of the greater value.

Influences on the surrounding metal

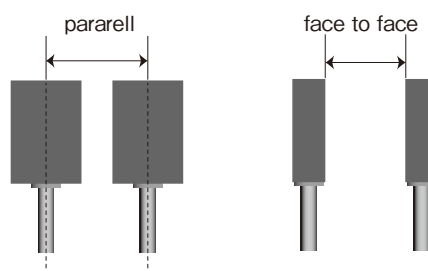
- The installation to a metal side: OK
- Implantation to metal: NG

Nonmetal range at the time of the implantation to metal




Mutual interference

The following distances must be maintained between the individual Reader to avoid mutual interference.



ID tag

Type code	Z1-AA04-02K	Z1-EC02-128	Z1-EA02-128	Z1-FA01-128	Z1-FB01-128
Features	D-2N Compatible installation	Ceramic ID tag	Ceramic ID tag	Flexible tag	Flexible ID tag
					
Size	φ 30 x 6 mm	φ 26 x 3.4 mm (hole φ 6)	φ 9.5 x 2.7 mm	φ 16 x 0.9mm	φ 28 x 0.8mm
Material	PBT	Almina ceramic	Zirconia ceramic	Glass fiber cloth	Glass fiber cloth
Available memory capacity	2K byte/FRAM	112 byte/EEPROM			
Operating temperature	-25...+70℃	-20...+80℃			
Storage temperature	-40...+85℃	-25...+120℃ ¹⁾			
Protection class	IP67 (IEC standard)		IP60 (IEC standard) ²⁾	IP67 (IEC standard)	
Mounting	M3 screw ³⁾ (Tightening torque 0.5Nm)	M5 screw ³⁾ (Tightening torque 1Nm) with double-stick tape on the back	with double-stick tape on the back	with double-stick tape on the back	with double-stick tape on the back
Read/Write cycles	Read/Write cycles , No limit	Read/Write cycles , No limit			
Data retention time	Read/Write cycles , No limit Data retention: 10 years	Read/Write cycles , 100,000 times Data retention time: 10 years			
Standard	ISO15693(Frequency 13.56MHz)				
Metal Mounting	YES ⁴⁾	Yes	Yes	No	No

1) Please contact us if the storage temperature would be over 120°C .

※ Please purchase five tags by lot.

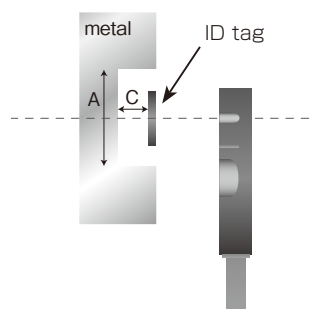
2) Please contact us if you intend to use in a location that requires Z1-EA02-128 water proof.

3) M3 or M5 metal screws are available. Please prepare in your side.

4) It is impossible of metal installation by the combination with ID reader Z3-R010-CN.

Mounting

To avoid the surrounding metal and mutual interference when you install ID Reader, please keep area greater than or equal to value shown in below table. Also, if the non-metallic area depends on the combination of ID tag and Read/write head, please keep non-metallic area of the greater value.



Z1-AA04-02K	Non-metallic area (A : 70mm)	
Mounting condition	Metal mounting (C:0mm)	Non-metal mounting (C:20mm)
Communication distance (mm)	0 ~ 10	0 ~ 12
Center offset	Distance 0mm	± 5
	4mm	± 5
	8mm	± 4
	10mm	± 0
	12mm	-

Z1-EC02-128	Non-metallic area (A : 60mm)	
Mounting condition	Metal mounting (C:0mm)	Non-metal mounting (C:20mm)
Communication distance (mm)	0 ~ 12	0 ~ 12
Center offset	Distance 0mm	± 7
	5mm	± 8
	10mm	± 7
	12mm	± 0
	-	-

Z1-EA02-128	Non-metallic area (A : 30mm)	
Mounting condition	Metal mounting (C:0mm)	Non-metal mounting (C:20mm)
Communication distance (mm)	0 ~ 5.5	0 ~ 7
Center offset	Distance 0mm	± 2
	3mm	± 3
	5mm	± 0
	7mm	-
	-	-

Z1-FA01-128	Non-metallic area (A : 56mm)	
Mounting condition	Non-metal mounting (C:20mm)	
Communication distance (mm)	0 ~ 15	
Center offset	Distance 0mm	± 4
	5mm	± 6
	10mm	± 6
	15mm	± 0
	-	-

Z1-FB01-128	Non-metallic area (A : 70mm)	
Mounting condition	Non-metal mounting (C:20mm)	
Communication distance (mm)	0 ~ 19	
Center offset	Distance 0mm	± 10
	5mm	± 12
	10mm	± 12
	15mm	± 8
	19mm	± 0

"Metal mounting" means directly mounted on the metal. but it refers to the absence of metal around except rear of the ID tag.

Value in () shows the required space to keep the communication distance as same as no-metal mounting.

Reader/Writer



ID Reader/Writer writes to the ID tag by USB or RS-232C connecting to the PC.

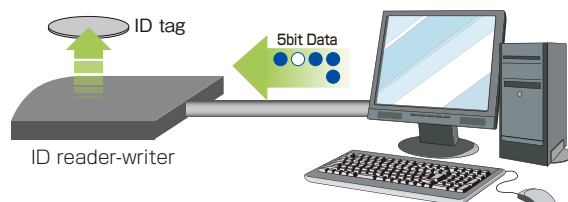
Type code	Z6-01-R	Z6-01-U
Connection type	RS-232C type	USB type
Supply voltage	Power supply from AC adapter	5V DC (USB BUS-power)
Size	120mm x 72mm x 20mm , cable length 1m	
Applicable PC	Windows XP / Vista / 7	
Software for writing	Using the bundled application software	
Operating temperature	0...+50°C	
Storage temperature	-10...+70°C	
included	CD-ROM , AC adapter	CD-ROM

CE approval on Z6-01-R only.

PCConstruction of the system

Write System

USB or RS-232C



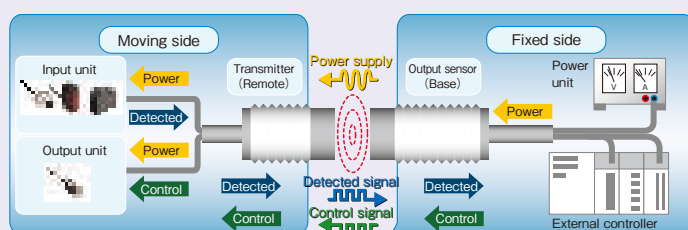
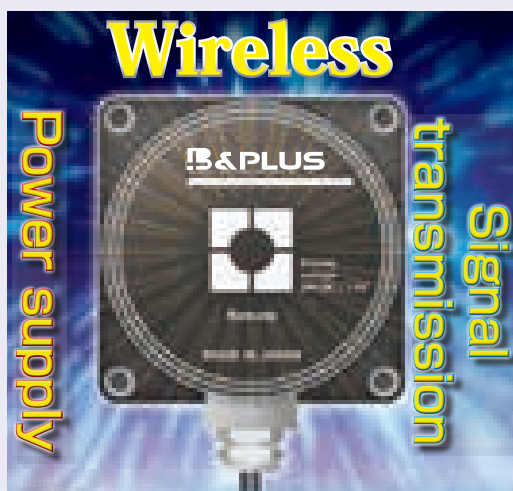
It is easy to write data by using the bundled application software.

- ※ Data writing to ID tag service is available. For more details please contact our sales.
- ※ If the number of the identification is not enough in 5 bit (32), we also have 8 bit (256)

【Introduction of Remote system】

Aiming for wireless No. 1 "B&PLUS"

B&PLUS Remote system is an original connection system which supplies power and transmits signals by air gap at a time. The feeding prepares from a sensor to 24V/5A for the apparatuses on the palette.



Possible to charge to AGV battery.

From the signal of the detection sensor of 1 point to 64 points, the transmission of interactive data signals such as analog signal thermocouple, the load cell, RS-232C and CC-Link is possible.

With a movable side like an index table and a conveyance palette, the device connect to a slip ring or a connector, realizes automation and the efficiency of a machine.

Wireless Power Supply by B & PLUS K.K.

Mail : b-plus-usa@b-plus-kk.com

Web : <http://www.b-plus-kk.com>

* Infor may change the mention contents such as specifications without a notice.
Thank you for understanding