

Ultimate jig, model identification

5, 8, 10 bit system!!

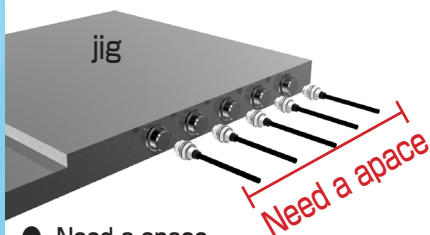
How can you identify a jig, and a die?
B&Plus simple ID system can

easily! certainly! at low-cost!

identify **5, 8, 10-bit**

Case 1

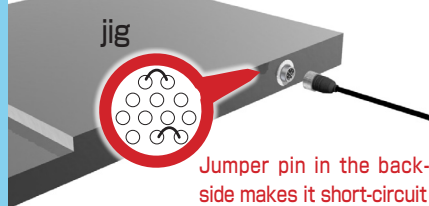
The machine flag which arranged proximity switch.



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

Case 2

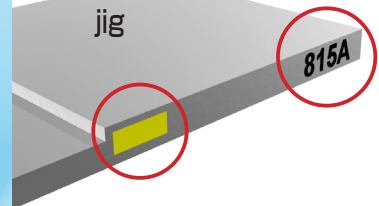
The short circuit connector Identification.



- 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!

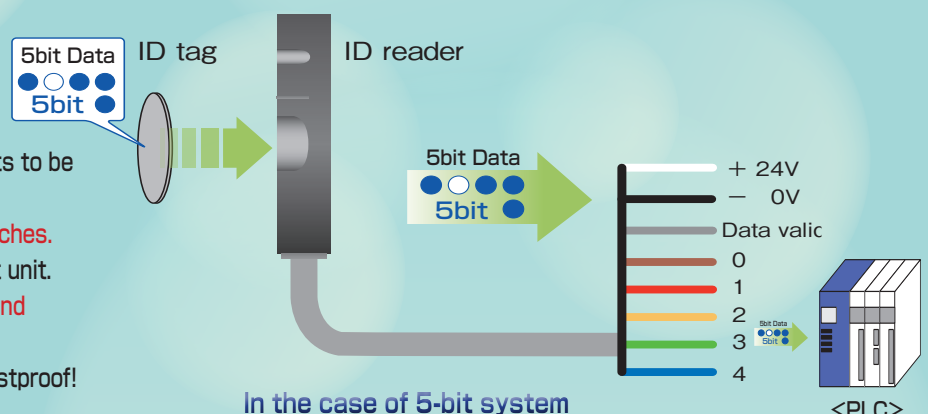
When use B&PLUS simple ID system,

One ID reader can solve the problems!

- Just stick ID tag on to the model that wants to be identified.
- Parallel output starts as ID reader approaches.
- Simple wiring! Just connect cable to input unit.
- Unlike the existing ID system, controller and programming is not required.
- Protection class IP67. Waterproof and dustproof!

Reading automatically

Output in Parallel



In the case of 5-bit system



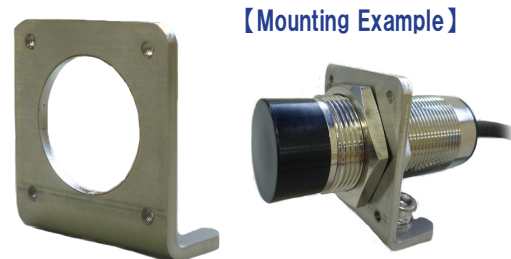
Type	NPN PNP	Z5-EA05N-__ Z5-EA05P-__	Z5-AA01N-__ Z5-AA01P-__	Z5-AA03N-__ Z5-AA03P-__
Supply voltage / Current consumption		24V DC \pm 10% (including ripple) / max. 50mA	24V DC +10% -20% (including ripple) / max.60mA	24V DC +10% -20% (including ripple) / max.70mA
Output signal		Parallel(5bit+Data valid)	Parallel(8bit+Data valid)	
Frequency		13.56MHz (comply with ISO15693)	13.56MHz (comply with ISO15693)	
Operating/ Storage temperature		0...+50°C	0...+50°C / -25...+70°C (with no icing)	0...+50°C / 0...+70°C
Operating/ Storage humidity		35...90%RH	35...90%RH	
Protection class		IP67	IP67	
ID tag data reading time		50ms (Reading automatically)	50ms (Reading automatically)	
Weight		Body 20g + Cable 50g/m	Body 180g + Cable 70g/m	Body 60g + Cable 75g/m
Regular cable length		2 m (Model end 02 \Rightarrow 2m, 05 \Rightarrow 5m, 10 \Rightarrow 10 m)	5 m (Model end 05 \Rightarrow 5m, 10 \Rightarrow 10m, 25 \Rightarrow 25 m)	
Maximum cable length		10m	25m	
Cable		PVC, ϕ 5.5, 8xAWG24	PUR, ϕ 8.2x0.5mm ² , 9x0.18mm ²	PUR, ϕ 7.7, 2x0.5mm ² , 9x0.18mm ²
Cable bend radius		33mm	50mm	
Installation screw/ clamp torque		M4 / 1.2N · m	M30 / 20N · m	M4 / 1.5N · m
Dimension		D10mm x W25mm x H50mm	M30x H74.5mm	D25 x W45 x H45

A dedicated bracket for easy installation is also available!
Comes with screws for simple setup!

Mounting bracket for the 8bit system (optional extra)

Type B-PLUS-BLOP-01

- Cylinder shape (M30) can also be installed.
- Made from SUS, hard to rust material.
- Mounting screws included.



Mounting bracket for the ID tag Z1-AA04-02K (optional extra)

Type B-PLUS-BLOP-05

- ID tag Z1-AA04-02K can be installed.
- Made from SUS, hard to rust material.
- Two screws for tag attachment (M3x8)
and two screws for bracket attachment (M5x20) are included.



Read Write head /ID reader unit 8bit & 10bit



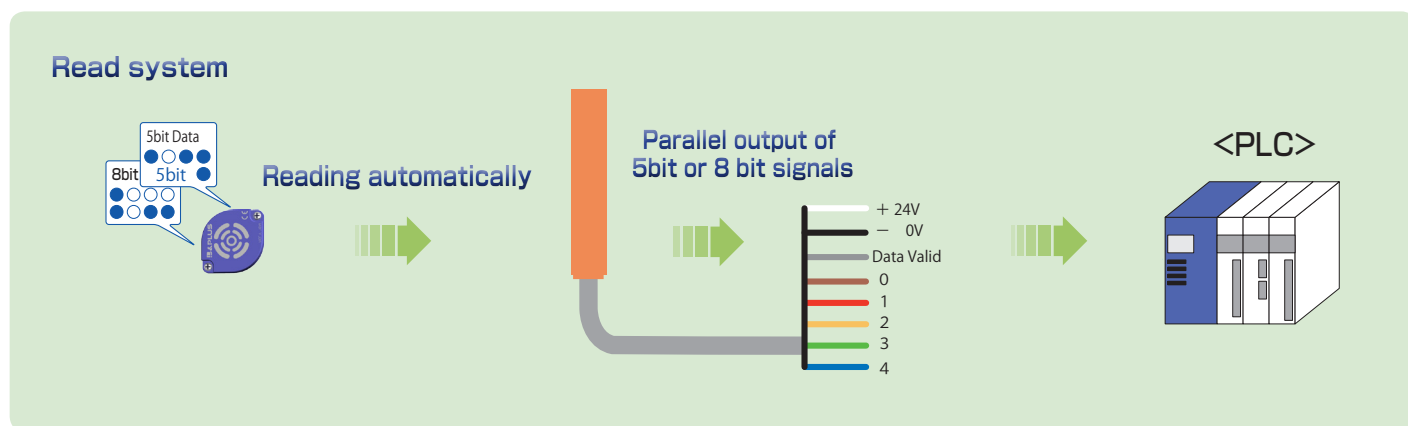
8bit 10bit



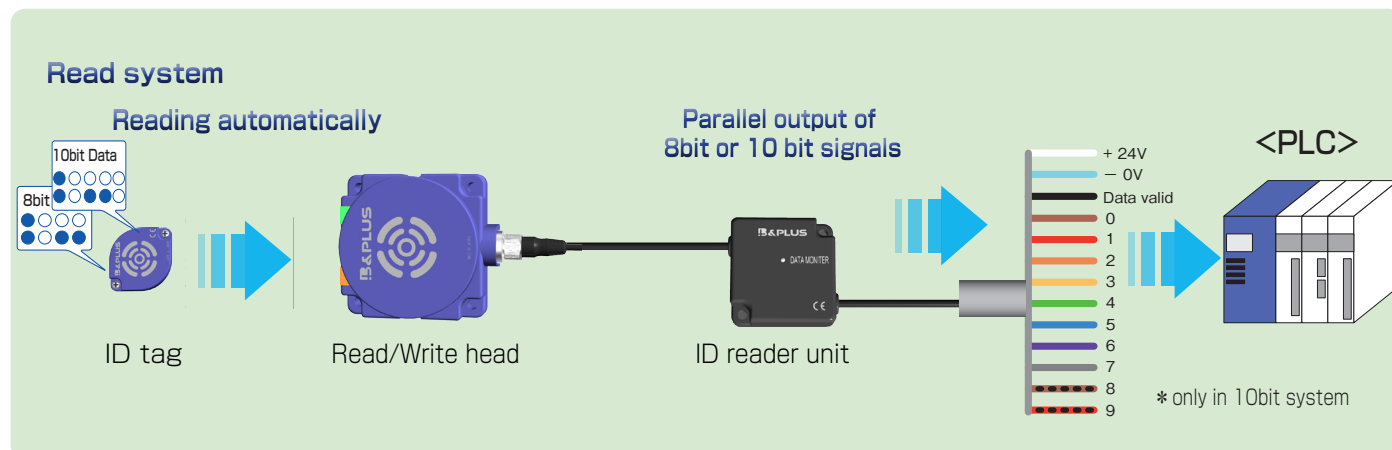
Type	Z3-A010-CN	Z3-A010A-CN
Supply voltage / Current consumption	Refer to ID reader unit	
Output signal	Refer to ID reader unit	
Frequency	13.56MHz (Comply with ISO 15693)	
Operating/ Storage temperature	0...+50°C / -10...+70°C	
Operating/ Storage humidity	5...90% (no condensation)	
Protection class	IP67	
ID tag data reading time	80ms (Reading automatically)	
Weight	Body 210g	
Installation screw/ clamping torque	M5 / 1.5N · m	
Dimension	D30mm x W80mm x H80mm	
Supported ID tags	All tags except "ISO15693CARD tag" are supported.	On 4th page. Only "ISO15693CARD tag" is supported

Type 8bit 10bit	Z5-CA01N(P)-PU02 Z5-DA01N(P)-PU02
Supply voltage / Current consumption	DC24V ± 10% / max.200mA *Total value with read/write head
Output signal	Parallel/ 8(10)bit+Data valid
Output specification	NPN / PNP
Correspondent read/write head	Z3-A010-CN
Operating temperature/ humidity	0...+50°C / 35...90% RH
Protection class	IP67
Weight	8bit...350g (Cable length 2m) 10bit...400g (Cable length 2m)
Regular cable length	2m
Maximum cable length	10m
Cable bend radius	50 mm
Dimension(except the cable)	D25mm x W55mm x H55mm







Construction of the system 5bit & 8bit



Construction of the system 8bit & 10bit



ID tag

Type code	Z1-AA04-02K	Z1-B011-128	Z1-BB10-112	Z1-CB16-112	Z1-CB27-112	Z1-CB45-112
Features	D-2N Compatible install	Long distance D tag	Thin, metal mounting	Thin Tag	Thin Tag	Thin Tag
						
Applicable system	5/8/10 bit Z series	5/8/10 bit Z series	5/8 bit	5/8/10 bit Z series	5/8/10 bit Z series	5/8/10 bit Z series
Size	30 × 30 × 6mm	Φ 50 × 8.3mm	Φ 10 × 0.76mm	Φ 16 × 0.76mm	Φ 27 × 0.76mm	Φ 45 × 0.76mm
Weight	5 g	18 g	0.13 g	0.38 g	0.86 g	2.30 g
Material	PBT	PA6	PVC	PVC	PVC	PVC
Available memory capacity	2k byte (FRAM)	112 byte (EEPROM)				
Operating temperature	− 25 ... + 70℃	− 20 ... + 85℃	− 20 ... + 70℃	− 20 ... + 70℃	− 20 ... + 70℃	− 20 ... + 70℃
Storage temperature	− 40 ... + 85℃	− 25 ... + 120℃	− 40 ... + 85℃	− 40 ... + 85℃	− 40 ... + 85℃	− 40 ... + 85℃
Protection class	IP67 (IEC standard)		IP67 (IEC standard) Water resistance: After immersing in tap water for 30 minutes, the product satisfies communication characteristics without any abnormalities such as damage or deformation.			
Mounting	M3 screw 1) Tightening torque0.5Nm	M4 screw 1) Tightening torque0.7Nm	Double-sided tape on the back			
Read/Write cycles Data retention time	Read cycles: unlimited Write cycles : unlimited Data retention time: 10 years	Read cycles : unlimited Write cycles : 100,000 times Data retention time : 10 years	Read cycles : unlimited Write cycles : 100,000 Data retention time : 50 years			
Standard	Comply with ISO15693(Frequency 13.56MHz)					
Metal mounting	Yes 2)	Yes 2)	Yes	No	No	No
Reading distance (In the case of non-metal)	5 bit : 0 ... 12 mm 8 bit : 0 ... 16 mm 10 bit : 0 ... 30 mm	5 bit : 0 ... 12 mm 8 bit : 0 ... 22 mm 10 bit : 0 ... 50 mm	5 bit : 0 ... 6 mm 8 bit : 0 ... 6 mm	5 bit : 0 ... 12 mm 8 bit : 0 ... 20 mm 10 bit : 0 ... 44 mm	5 bit : 0 ... 20 mm 8 bit : 0 ... 28 mm 10 bit : 0 ... 64 mm	5 bit : 0 ... 25 mm 8 bit : 0 ... 40 mm 10 bit : 0 ... 88 mm

1) M3,M4 or M5 metal screws are not composed with. Please prepare in your side.

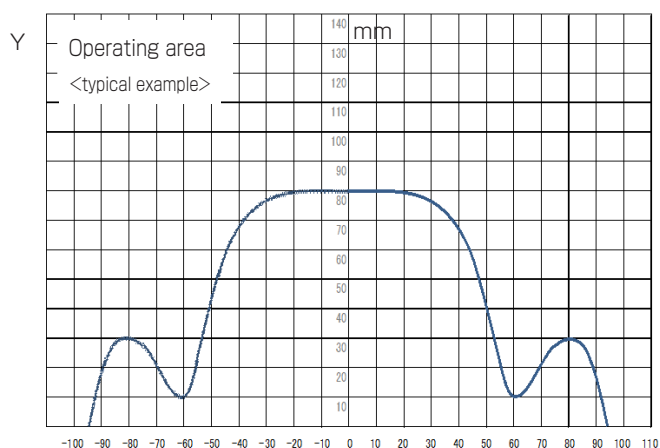
2) Metal mounting is not possible in combination with ID reader Z3.

3) The value of the reading distance is a reference value.

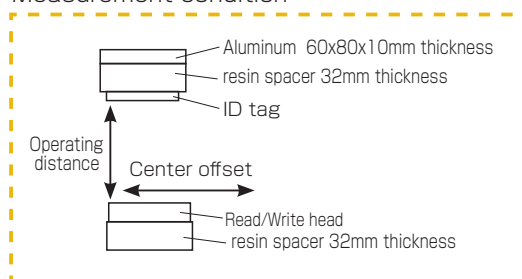
*Please purchase five tags by lot.

ISO15693CARD tag

Example use of Read/Write head Z3-A010A-CN (No metal around Read/Write head)



Measurement condition



SIZE 86mm x 54mm x 0.9mm Comply with ISO7810

Data writing to ID tag service is available, please contact us.

about Installation of ID reader and ID tag

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 Data carrier and Reader, please keep non-metallic area of the greater value.

Wireless Power Supply by
B & PLUS K.K.

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

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

* Infor may change the mention contents such as specifications without a notice.

Thank you for understanding

BN1703Le

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