

Usable and Easy Identification System with a PC!!

Identification Processor for USB interface



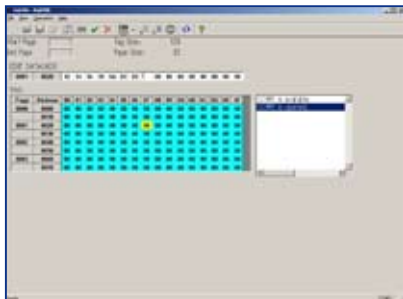
Application software

for communication with Data Carriers such as data reading, writing and editing and for edited data reading and saving

Connect to USB port directly

Read and Write in 3 data formats

● Byte format for Balluff standard



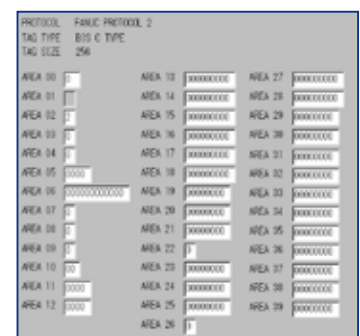
Display for Input : HEX (or ASCII)

● Word Format for MELSEC



Display for Input

● FANUC protocol / Format I, II



Display for Input : Format II

© The processor can be used for editing of the reading and writing data of Data carrier as soon as attached driver software and application software is installed in PC.

© The original application software that was created by the user can also be used. Please refer to an technical manual on the occasion of creating an application.

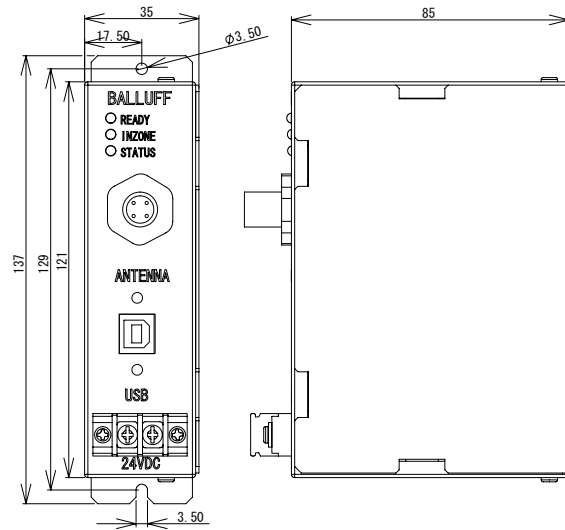
Standard system / BIS C series

Features of BIS C series

- Standard System which has various size Data Carriers from phi 9mm to 80x40mm.
- All Data Carriers needs no battery because of EEPROM and FRAM type. Data Carriers EEPROM type can be rewrite 1,000,000 times.

Processor for USB interface

Dimension



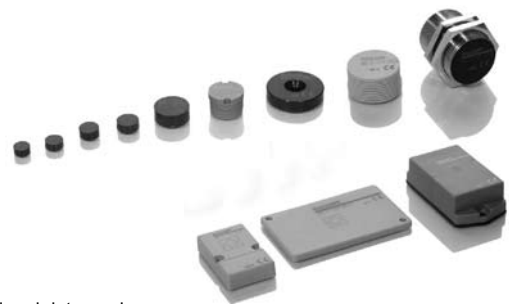
Interface	Based on USB Specification Rev 1.1
Number of Read/Write heads	1CH
Type	BIS C-490-B13
Applicable data carriers	BIS C-490-B14
511 byte	BIS C-490-B11
1023 byte	
2047 byte	
Power supply	24V DC+-10% (incl.)
Current consumption	0.25A
Operating temperature	0...+55 deg .C.
Connection with a Read/write head	Connect R/W head directly (M12 connector)
Applicable read/write heads	BIS C-3xx (except BIS C-350, BIS C-352, BIS C-353)
Connection with a PC	USB cable
Attached articles	CD-ROM (Driver and Application software) : 1 USB cable 1m : 1

Read/write Heads and Data Carrier

The following Read/write Heads and Data carriers are applicable to this System.

R/W Heads	Data carriers
BIS C-300	BIS C-100/103/105/121/122/124/130
BIS C-302	BIS C-100/103/105/121/122/130
BIS C-305	BIS C-100/103/105/108/117/121/122/ BIS C-124/128/130
BIS C-306	BIS C-100/103/105/121/122/124/130
BIS C-310	BIS C-104/108/117/124/127/128/130
BIS C-315	BIS C-104/108/117/127/128/130
BIS C-318	BIS C-108/117/127/128
BIS C-351	BIS C-150

* Please refer to the catalog about the communication distance of each head and data carrier.



About the details of the specifications and the operation method, please refer to the technical manual.

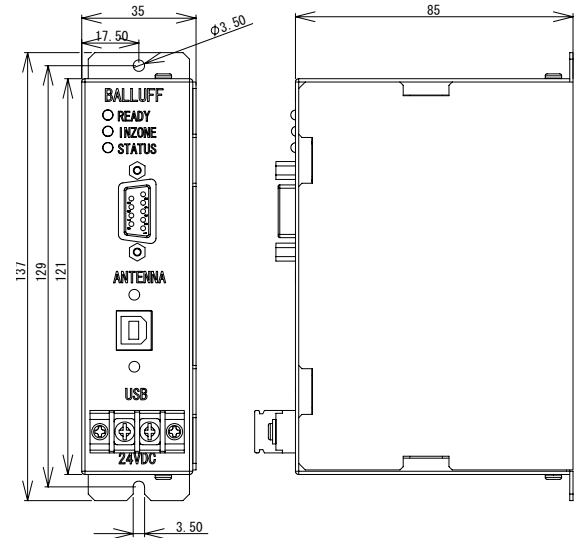
Hi-speed system / BIS S series

Features of BIS S series

- Hi-speed system; its communication speed has improved to 8 times faster than the BIS C series.
- Data capacity of Data carriers is 8K byte/FRAM type, no needs a battery. Read/Write cycle is unlimited.

Processor for USB interface

Dimension



Interface	Based on USB Specification Rev 1.1
Number of Read/Write heads	1CH
Type	BIS S-405-30
Applicable data carriers	
8k byte number	
Power supply	24V DC+10% (incl.)
Current consumption	0.25A
Operating temperature	0...+55 deg .C.
Connection with a Read/write head	Connect R/W head directly (D-sub connector)
Applicable read/write heads	BIS S-3xx
Connection with a PC	USB cable
Attached articles	CD-ROM (Driver and Application software) : 1 USB cable 1m : 1

Read/write Heads and Data Carrier

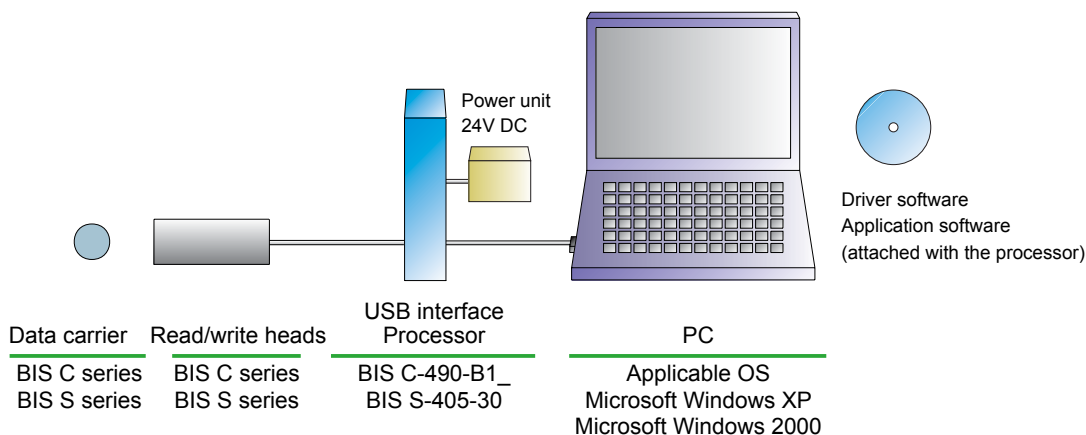
The following Read/write Heads and Data carriers are applicable to this System.

R/W Heads	Data carriers
BIS S-301	BIS S-150
BIS S-302	BIS S-108
BIS S-303	BIS S-108

* Please refer to the catalog about the communication distance of each head and data carrier.



Construction of the System



Balluff Identification System

The Balluff Identification system BIS series is the electromagnetic coupling Identification system which is suitable for the Factory automation environment.

The Balluff Identification System is used much in the Factory automation facilities all over the world because of the Data carriers that have data capacity up to 8 K bytes with various type of shape, Processors that have interface to be connected directly with the programmable controller.

Standard system / BIS C series



Data carrier capacity	Interface with upper controller
511 byte 1023 byte 2047 byte 8K byte	Serial (RS-232C)
	Parallel 8 bit (NPN / PNP)
	USB interface NEW
	MELSEC BUS (AnA, QnA, AnS, QnAS, Q series)
	FANUC protocol (Format I, II)
	Field bus (DeviceNet, CC-Link)

Hi-speed system / BIS S series



Data carrier capacity	Interface with upper controller
8K byte	Serial (RS-232C)
	USB interface NEW
	MELSEC BUS (AnA, QnA, AnS, QnAS, Q series)
	Field bus (CC-Link)

Mini-flag system / BIS C/R series



Data carrier capacity	Interface with upper controller
same as data carrier BIS C series*	Parallel 8 bit (NPN / PNP)

* BIS C series data carriers are used in this system.
The processing data is <8 bits, 16 bits, 64 bits>

● Windows is a registered trademark of Microsoft Corporation.

MELSEC is a registered trademark of product made in Mitsubishi Electric Corporation general-purpose sequencer.

A FANUC protocol is data format for tool management of a CNC device made in FANUC Ltd.

■ Specification is a subject to change without notice.

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