

FCC ID: HLHBISS300

(Redacted by TCB)

Installation and Operation Instructions for the Balluff Identification Systems BIS S series.

BALLUFF

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No. T100C01E

BALLUFF ID system BIS S series
Technical manual for ID controller
(Type: BIS S-401-30)
RS-232C Serial Interface



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Regulatory Notice

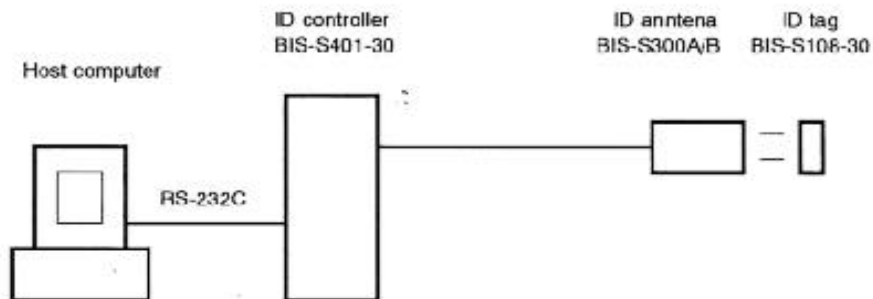
This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference,
and (2) this device must accept any interference received,
including interference that may cause undesired operation.

Pursuant to Part 15.21 of the FCC Rules, any changes or
modifications to this equipment not expressly approved by
Nihon Balluff may cause harmful interference, and void your
authority to operate this equipment.

1. System configuration

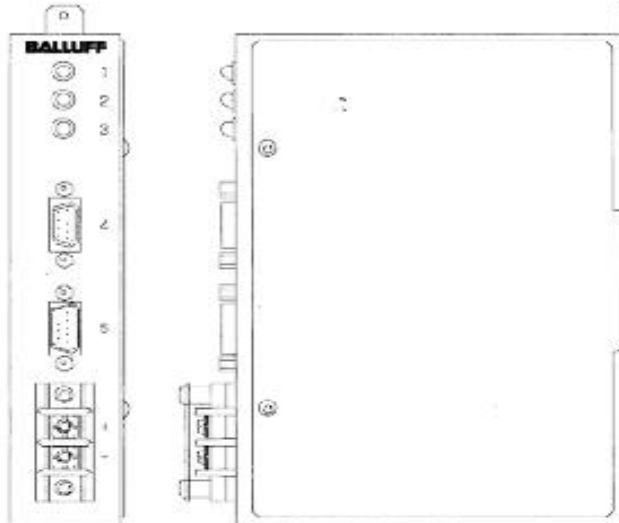


■ Function of the components

- ID tag : memorizes the data. The memory can be read or written through the ID antenna.
- ID antenna : used for the non-contact data transfer with the ID tag. The energy for the ID tag is supplied from ID antenna by means of inductive coupling.
- ID controller : executes the read and write function according to the command from the host computer. The interface between the host computer and the ID controller is serial RS-232C.

2. Specifications**2.1 Type number**

BIS S-401-30 Controller for the ID tag with 8K byte memory

2.2 Function of each part**■ Display LED**

No	Color		Meaning
1	Green	READY	Turns on while power is supplied.
2	Yellow	IN ZONE	Turns on when detecting the ID tag. Blinks in case of cable breakage of ID antenna
3	Red	ERROR	Turns on when an error is detected and turn off when the next command is received. Power on makes this LED turn on until the first command properly received.

■ Connector

No	Function	Connector
4	Connector for the ID antenna	D-sub 9 pin, female
5	Connector for the interface with the host computer	D-sub 9 pin, male

■ Connector

	Function
+	Terminal for connecting + side of 24V DC
-	Terminal for connecting - side of 24V DC

■ Side Cover

When setting the dip switch inside, remove the two screws and open this cover.

3. Installation

3.1 Ambient condition

- ID controller should not be located in the place where;
 - temperature is beyond 0...55 °C
 - temperature changes rapidly causing condensation
 - humidity is beyond 35...90%RH
 - corrosive gas, flammable gas or excessive dust exists
 - excessive shock or vibration exists
 - exposed to sun shine
 - exposed to water, oil or chemicals
- Care should be taken to the control box where ID controller located;
 - keep the space for the air flow
 - do not locate the ID controller next to the hot equipment.
 - if the temperature is to be beyond 55 °C use the cooling equipments.

3.2 Fixing the ID controller

Fix the ID controller as described below using the bracket attached.

- 1) Fix the bracket by two screws.
- 2) Hang the ID controller to the projection of the bracket.
- 3) Fix the ID controller at the top by a M3 screw.

3.3 Connection of protective ground

The frame of ID controller (frame ground) is connected to 0V via a resistor and capacitor.

