FCC ID: HLHBISS300

(Redacted by TCB)
Installation and Operation Instructions for the Balluff Identification Systems BIS S series.

BALLUFF

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BALLUFF ID system BIS S series

Technical manual for ID controller

(Type: BIS S-401-30)

RS-232C Serial Interface

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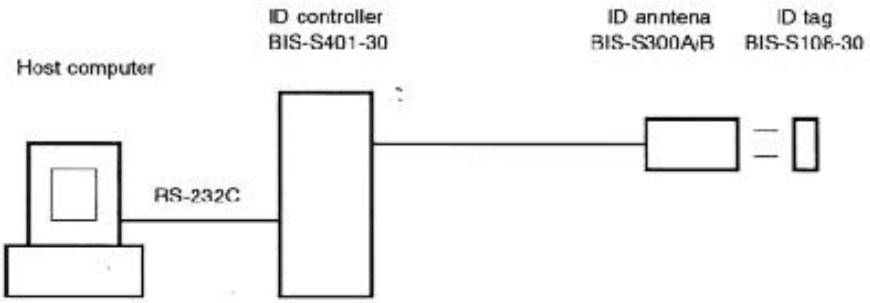
1. System configration



■ Function of the components

- ID tag : memorizes the data. The memory can be read or written through the ID anntena.
- ID anntena : used for the non-contact data transfer with the ID tag. The energy for the ID tag is supplied from ID anntena by means of inductive coupling.
- ID controller : excutes 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.

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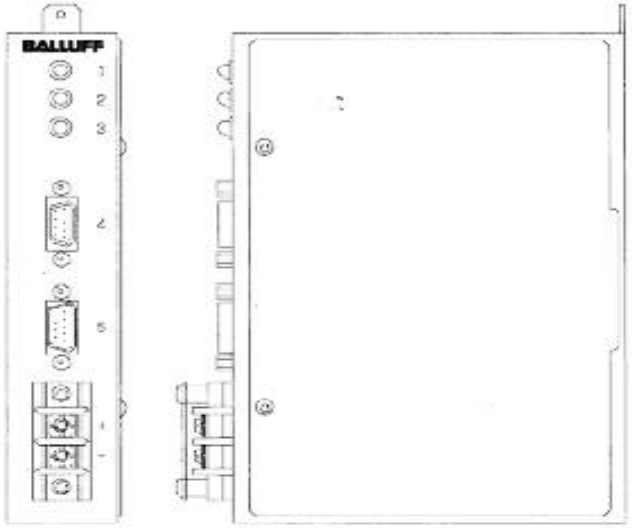
2. Specifications

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 anntena
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.

■ Connecter

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

■ Connecter

	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.

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3. Installation

3.1 Ambient condition

■ ID controller should not be located in the place where;
- temparature is beyond 0...55 °C
- temparature changes rapidly causing condensasion
- humidity is beyond 35...90%RH
- corrosive gas, flamable gas or excessive dust exists
- excessive shock or viblation 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 temparature is to be beyond 55 °C use the cooling equipments.

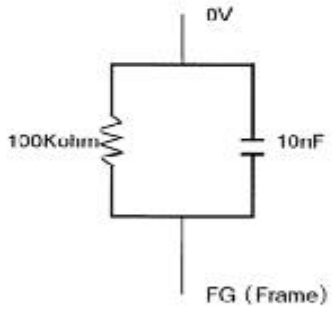
3.2 Fixing the ID controller

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.