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Purpose of the Device

The BF-IDM35 RFID Reader is a contactless read and write system. The read/write head consists of an electronic analysis system with integrated antenna. The system can be used to write information to a data carrier and to read it. The data and current status messages are transmitted from the identification system to the controlling system via a defined protocol. Via this protocol, it is also possible to transmit additional commands to the device, such as switching off the read/write head antenna.

Data transmission to the controlling system is performed with an IO-Link master. The data carrier is an independent unit that is supplied with power by the read/write head. The read/write head permanently transmits a carrier signal that is picked up by the data carrier from a certain distance. As soon as the data carrier is supplied with energy by the carrier signal, a static read operation takes place.

The read/write head manages the data transfer with the data carrier and serves as a buffer. The data is transmitted to the IO-Link master, which forwards it to the controlling system (a control computer, e.g. industrial PC or PLC).

Status Indicators

The device will show its status using the 2 LEDs at the corners of the housing. In normal operation state the meaning of these lights are as follows:

- ▶ Green light "Power" indicates that the device is connected to the processor unit and ready to operate.
- ▶ Orange light "Tag present" indicates that a RFID tag has been detected in front of the transceiver coil.

Electrical Data

Operating voltage (nominal)	+24 V DC
Current draw (at +24 V DC)	≤ 40 mA
Operating Frequency	13.56 MHz
Active principle	Magnetic field
Transmit power	Class 5

Mechanical Data

Housing Material	Zinc, die-cast, nickel-plated /PBT-GF30
Weight max.	360g
Ambient temperature	0...+70°C

Statements

This product was developed and manufactured under observance of the guidelines applicable in the USA and Canada.

Ce produit a été développé et fabriqué conformément aux directives applicables aux États-Unis et au Canada.

Model:

BF-IDM35

RFID Reader

Operating Guide

BALLUFF

USA :



FCC ID: 2AGZY-BFIDM35

This device complies with Section 15 of the FCC Rules. The following two conditions apply to operation:

- this device may not cause interference
- this device must accept any interference, including interference that may cause undesired operation of the device

Changes or modifications not expressly approved by the party responsible for compliance voids the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Radiofrequency radiation exposure Information: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Canada:

This equipment complies with ICSED Canada radiation exposure limits set forth for an uncontrolled environment. This device should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet équipement est conforme aux limites d'exposition aux rayonnements d'ISDE Canada établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

Cet appareil contient un (des) émetteur(s)/récepteur(s) exempté(s) de licence qui est (sont) conforme(s) au(x) CNR exempté(s) de licence du ministère de l'Innovation, des Sciences et du Développement économique du Canada.

Le fonctionnement est soumis aux deux conditions suivantes :

1. Cet appareil ne doit pas provoquer d'interférences.

Model:

BF-IDM35

RFID Reader

Operating Guide

BALLUFF

2. Cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.