

Model:

BF-IDM26

RFID Reader

Operating Guide

BALLUFF

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Regulatory Information

This device complies with part 15 of the FCC Rules and with Industry Canada's licence-exempt RSSs.

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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage;
- (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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.

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Purpose of the Device

The BF-IDM26 RFID Reader is intended to read and write ISO15693 / ISO14443 compliant data carriers via magnetic field communication.

Variability

BF-IDM26 RFID Readers are available in different housings and shapes.

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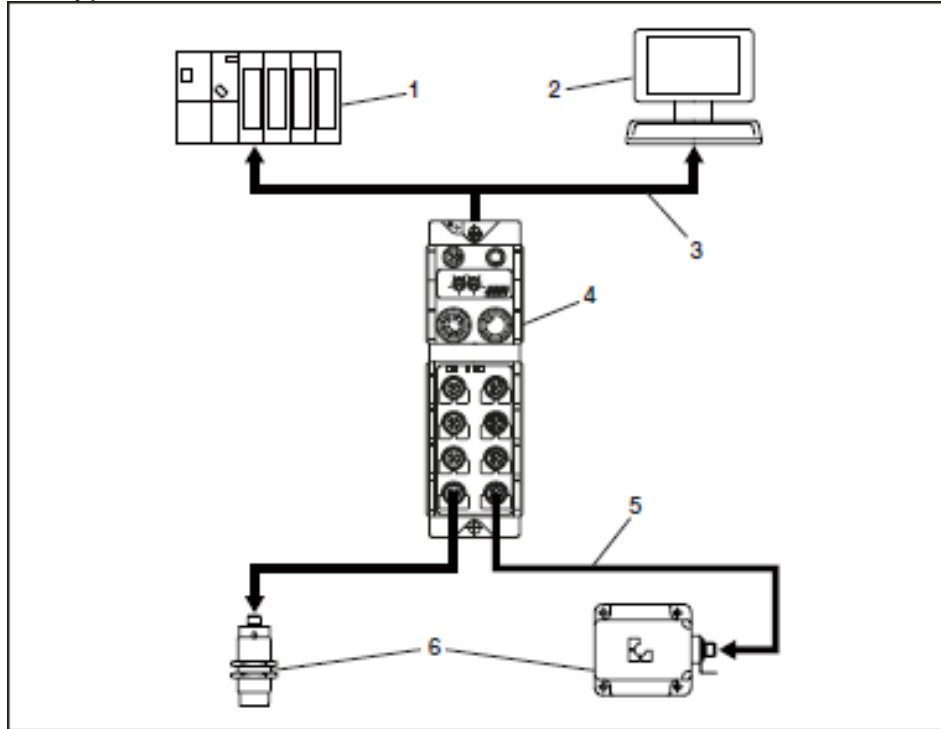
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Connecting the Device

BF-IDM26 devices operate in combination with any IO-Link Master device. For the connection a shielded standard type 4-wire cable M12 / A-coded is used.



Picture 1: Example Application

To ensure reliable operation in strong EMC environments it is recommended to connect metal housings or dedicated functional ground pins directly to installations ground. The ground connection should be short and stable. Depending on the installation situation an indirect ground connection using a RC combination may be required.

For further notes concerning the installation of the processor unit please refer to the operating guide of the processor unit.

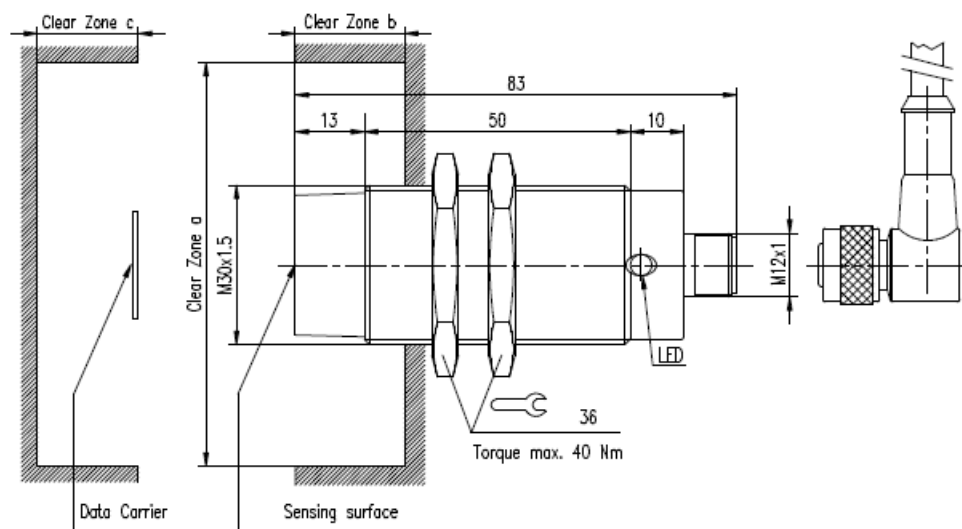
Installation notes

For proper operation at first a suitable mounting position has to be evaluated. The position should respect the recommended clear zones as described. Furthermore, please note that strong electrical or magnetic fields in the close environment may influence the RFID Reader.

Precise information concerning clear zones and distances are available on request.

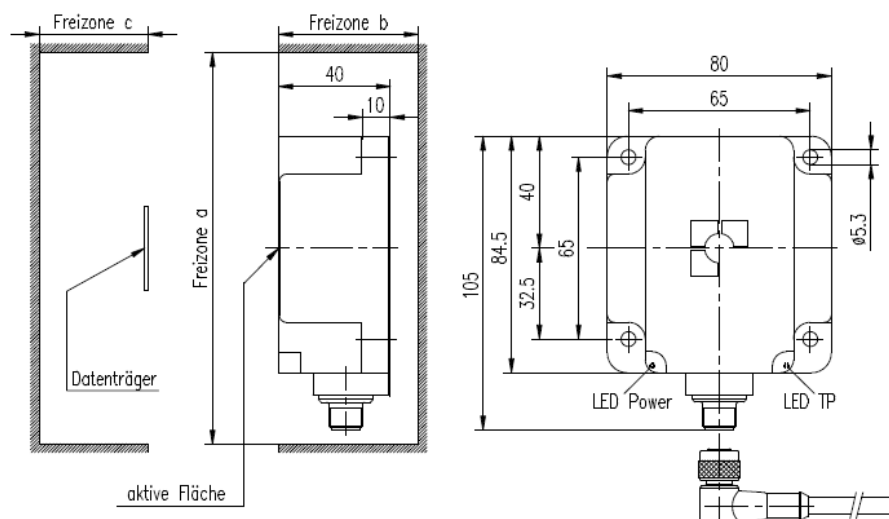
For BF-IDM26 Readers are available in different housings respectively shapes different types of installation may be considered.

a) Direct In-Hole mounting (Example):



Picture 2: Direct In-Hole mounting (Example)

b) Direct On-Wall mounting (Example):



Picture 3: Direct On-Wall mounting (Example)

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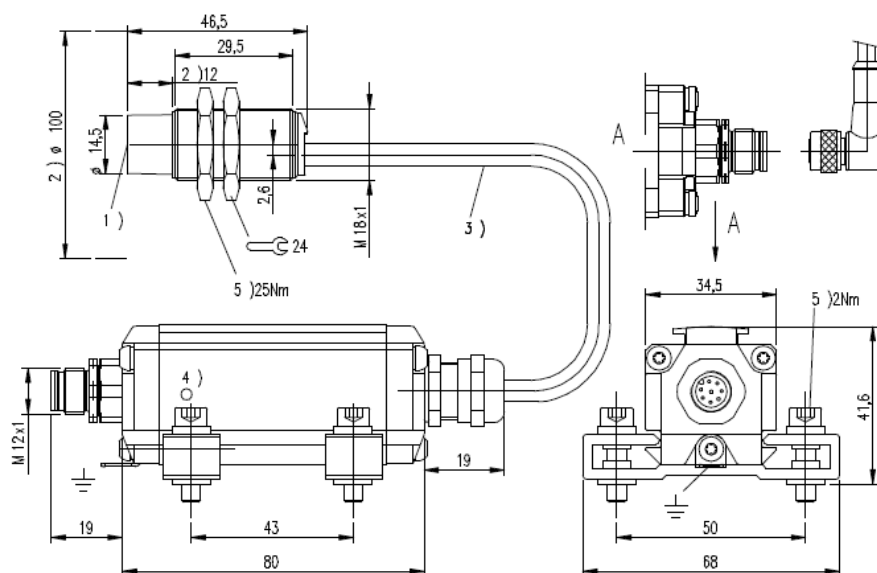
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c) Indirect On-Wall mounting using metal holder (Example):



Active surface 2) Clear zone 3) Cable length see notes 4) LED function indicator 5) Tightening torque

Picture 3: Indirect On-Wall mounting using metal holder (Example):

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Setup and Operation

For operation of BF-IDM26 Readers a IO-Link Master device is needed. The Master is used as gateway between higher level controllers and RFID Reader.

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)	≤ 200 mA
Operating Frequency	13.56 MHz
Active principle	Magnetic field
Transmit power	Class 5

Mechanical Data

Housing Material	Metal / ABS-GF16 / PBT / PA12-GF30
Weight max.	400g
Ambient temperature	0...+70°C