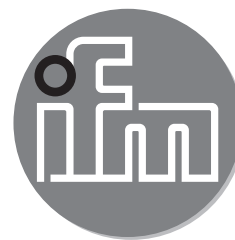


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Installation instructions

E80390

E80391

UK

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1 Preliminary note

This document is intended for specialists. These specialists are people who are qualified by their appropriate training and their experience to see risks and to avoid possible hazards that may be caused during operation or maintenance of the accessories. The document contains information about the correct handling of the accessories.

Read this document before use to familiarise yourself with the operating conditions and installation. Keep this document during the entire duration of use of the accessories.

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1.1 Symbols used

- Instructions
- > Reaction, result
- [...] Designation of keys, buttons or indications
- Cross-reference
-  Important note
Non-compliance may result in malfunction or interference.
-  Information
Supplementary note

2 Functions and features

The articles E80390 and E80391 are accessories for M18 and rectangular type RFID read/write heads. The accessories are used to change the field of the connected RFID read/write heads. This leads to the following effects depending on the installation of the accessories:

- higher range
- larger detection zone
- smaller detection zone

3 Items supplied

3.1 E80390

- E80390 for RFID read/write head, type M18

3.2 E80391

- E80391 for RFID read/write head, rectangular type
- 2x lens screw M3x6


4 Installation

4.1 Mount E80390

E80390 is suitable for mounting on an M18 type RFID read/write head (e.g. DTM424 / DTM425).

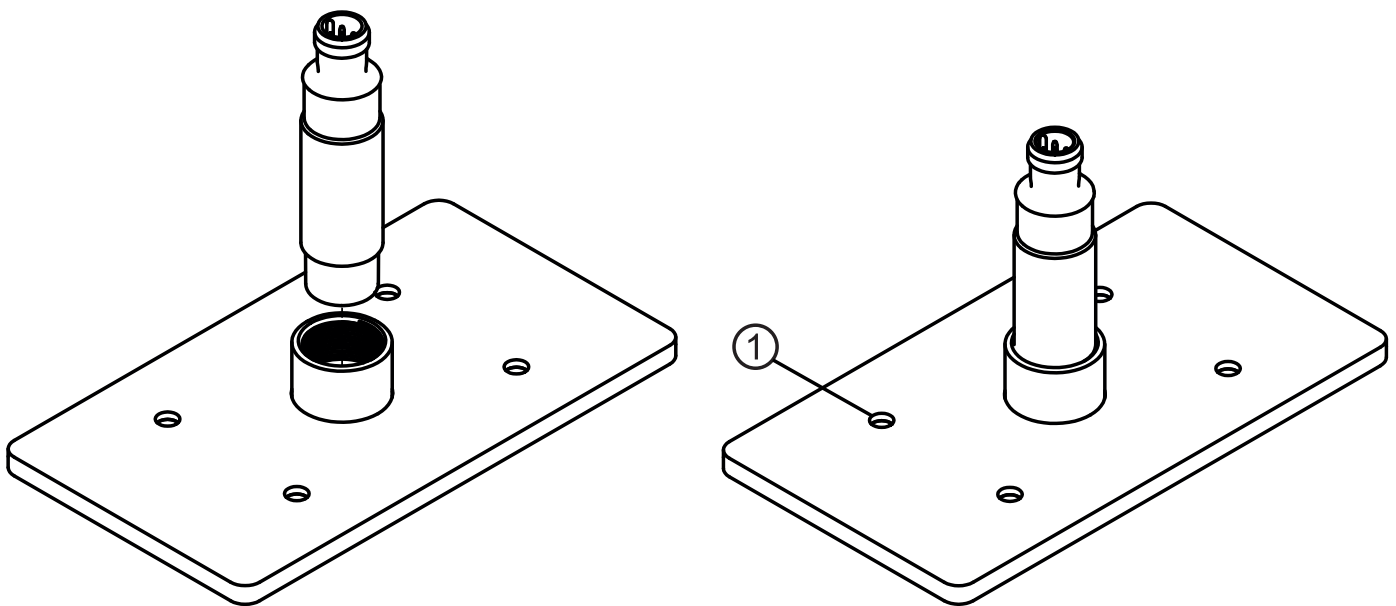
There are two ways to mount E80390:

- Installation to a mounted RFID read/write head (→ 4.1.1)
- Installation to a non-mounted RFID read/write head (→ 4.1.2)

 If E80390 is mounted on metal or in the vicinity of metal, the range of the RFID read/write head is reduced.

► Mount E80390 at least at 100 mm from any metal.

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4.1.1 Installation to a mounted RFID read/write head

In practical applications it is often necessary to change the field characteristics of a mounted RFID read/write head in operation. As a solution the RFID read/write head can be retrofitted with an E80390.

Follow the instructions:

1. Screw E80390 to the RFID-read/write head by hand (see figure above).
 - > Tighten E80390 with max. 0.6 Nm.
2. Additionally fasten E80390 via mounting holes ①.
 - > For a permanently reliable installation E80390 must additionally be fastened to a suitable surface via the mounting holes.

4.1.2 Installation to a non-mounted RFID read/write head

The field characteristics of new and non-mounted RFID read/write heads can be changed easily by mounting an E80390. The RFID read/write head and E80390 combination is then mounted to a suitable surface.

Follow the instructions:

1. Screw the RFID read/write head to E80390 by hand.
 - > Tighten the RFID read/write head with max. 0.6 Nm.
2. Mount E80390 to a surface via mounting holes ①.
3. Additionally fasten RFID read/write head.
 - > For a permanently reliable installation the RFID read/write head must additionally be fastened via its M18 thread.
4. Lay and connect the cable of the RFID read/write head.

4.2 Mount E80391

E80391 is suitable for mounting to a rectangular type RFID read/write head (e.g. ANT515 / ANT516).



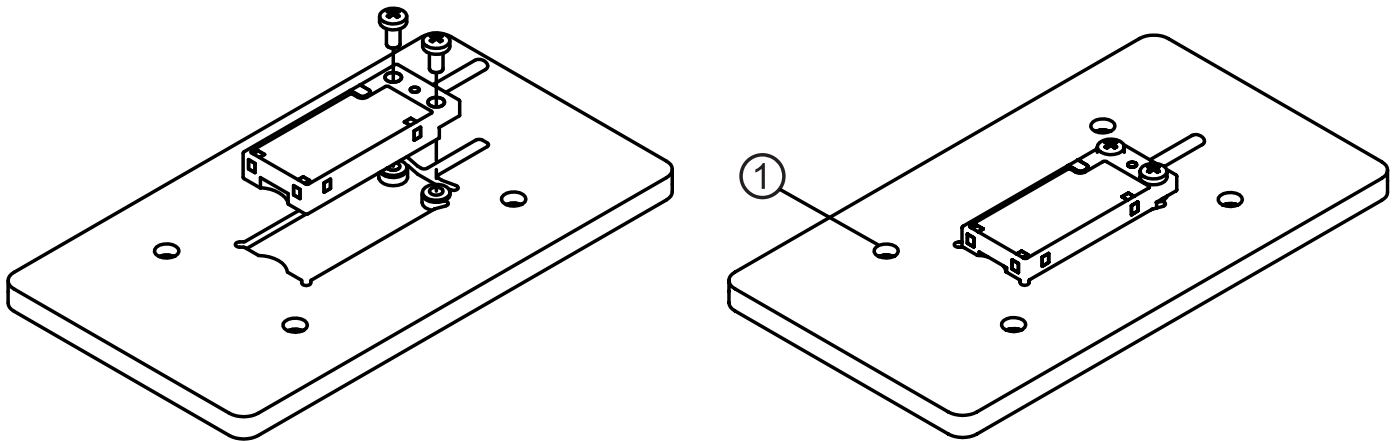
For the installation of E80391 the RFID read/write head must not be mounted.



If E80391 is mounted on metal or in the vicinity of metal, the range of the RFID read/write head is reduced.

► Mount E80391 at least at 100 mm from any metal.

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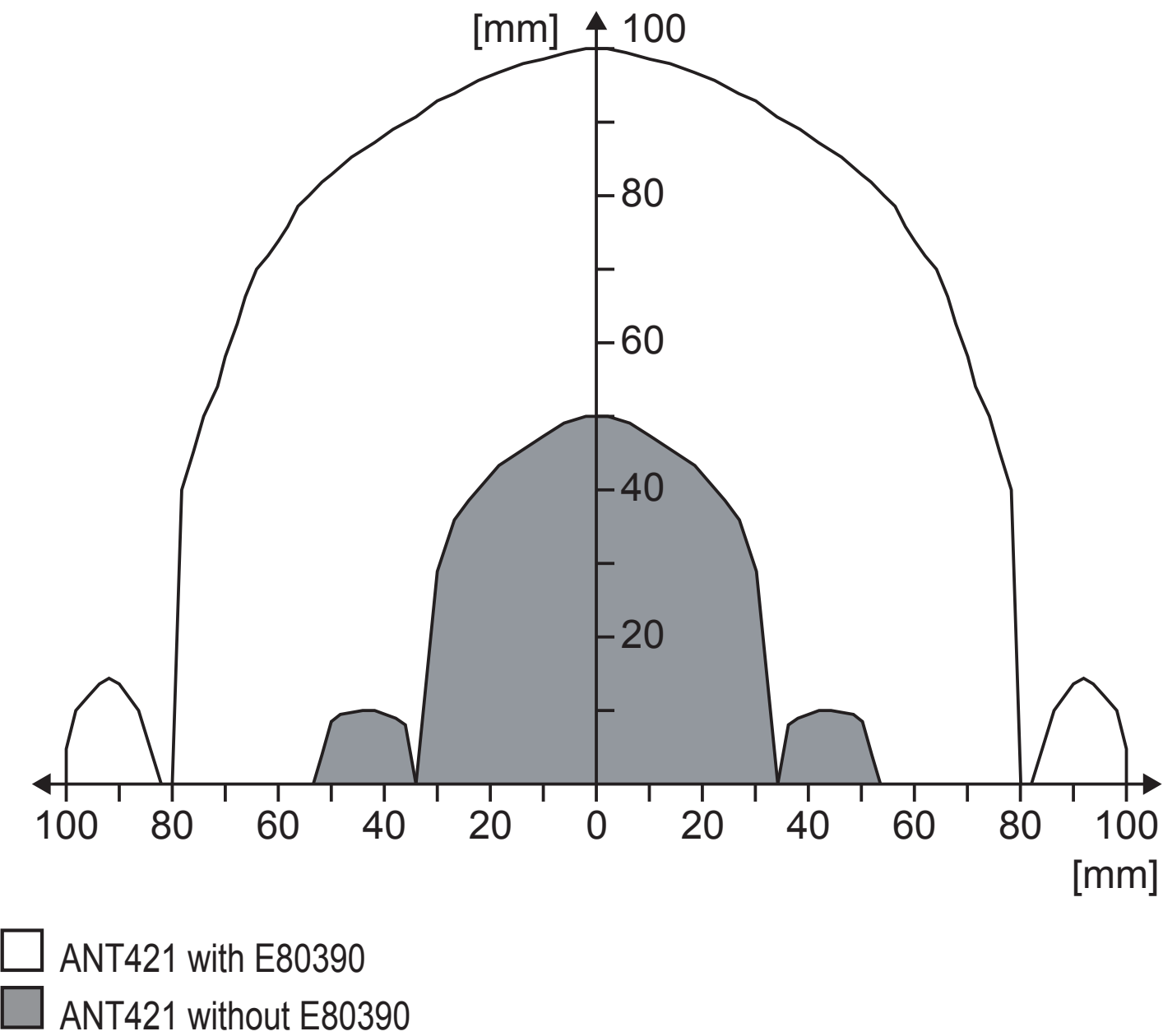
Follow the instructions:

1. Place the RFID read/write head in the cut-out of E80391 (see figure above).
 - > The RFID read/write head must be placed in the cut-out with the sensing face showing downward.
2. Insert M3x6 lens screws into the RFID read/write head and tighten.
3. Mount E80391 to the surface via mounting holes ①.

5 Technical data

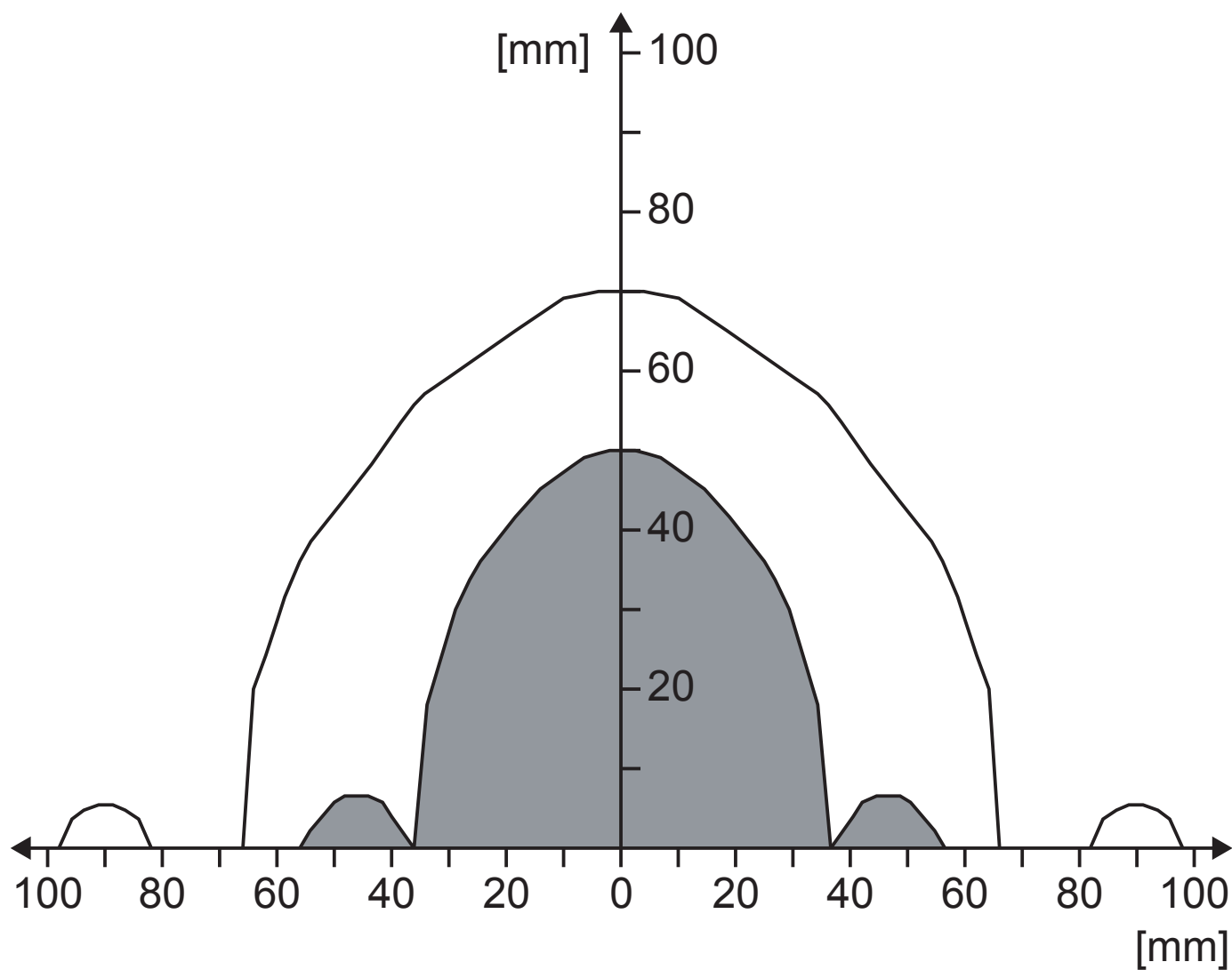
5.1 Detection zone E80390

The figure below shows the detection zone of an ANT421 with and without E80390. A 50 mm tag (E80384) was used for the measurement.



5.2 Detection zone E80391

The figure below shows the detection zone of an ANT515 with and without E80391. A 50 mm tag (E80384) was used for the measurement.



- ☐ ANT515 with E80391
- ☒ ANT515 without E80391