

RFID system ID 200

## Antenna ID 200/A-...



The antennas enable reading from and writing to mobile data tags MDT...L (125 kHz, low frequency) or MDT...H (13.56 MHz, high frequency). The antennas are intended for operation with a communication module, which supplies them with voltage.

### Antenna ID 200/A-...F (flat antenna)

The flat design of the antenna is optimal for installation on the side of transfer systems. Other installation sites are possible with the corresponding mounting kits.

### Antenna ID 200/A-...R (round antenna)

The round design of the antenna is particularly suited for reading data tags mounted on the bottom of workpiece pallets. Other installations are possible with the corresponding mounting kits.

Accessories: Mounting kits 2-8

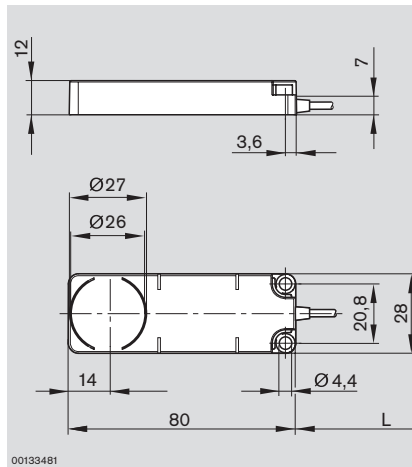
#### Note:

Mobile data tags MDT.../...H for 13.56 MHz 2-6

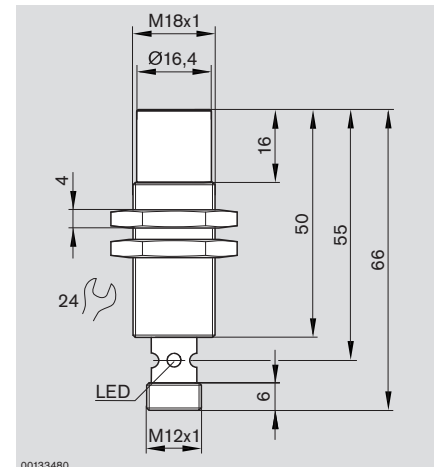
Mobile data tags MDT.../...L for 125 kHz 2-7



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Antenna ID 200/A-...F

|                         | No.                  |
|-------------------------|----------------------|
| ID 200/A-HF (13.56 MHz) | <b>3 842 410 065</b> |
| ID 200/A-LF (125 kHz)   | <b>3 842 410 176</b> |

Antenna ID 200/A-...R

|                         | No.                  |
|-------------------------|----------------------|
| ID 200/A-HR (13.56 MHz) | <b>3 842 410 063</b> |
| ID 200/A-LR (125 kHz)   | <b>3 842 410 177</b> |

| Type                                          | ID 200/A-LR                             | ID 200/A-LF         | ID 200/A-HR             | ID 200/A-HF         |
|-----------------------------------------------|-----------------------------------------|---------------------|-------------------------|---------------------|
| Operating voltage (from communication module) | 24 V                                    | 24 V                | 24 V                    | 24 V                |
| Power consumption                             | 0.35 A                                  | 0.35 A              | 0.35 A                  | 0.35 A              |
| Status display                                | LED<br>yellow/green                     | LED<br>yellow/green | LED<br>yellow/green     | LED<br>yellow/green |
| Protection class                              | IP67                                    | IP67                | IP67                    | IP67                |
| Housing material                              | PBT/<br>stainless steel                 | ABS                 | PBT/<br>stainless steel | ABS                 |
| Ambient temperature                           | -25 to +70°C                            | -25 to +70°C        | -25 to +70°C            | -25 to +70°C        |
| Storage temperature                           | -40 to +85°C                            | -40 to +85°C        | -40 to +85°C            | -40 to +85°C        |
| Humidity                                      | Max. 96%                                | Max. 96%            | Max. 96%                | Max. 96%            |
| Vibration resistance                          | 1 mm (10 to 55 Hz); 5 g (10 to 2000 Hz) |                     |                         |                     |
| Shock and impact resistance                   | 30 g/11 ms, 18 cycles                   |                     |                         |                     |
| Mass                                          | 0.1 kg                                  | 0.1 kg              | 0.1 kg                  | 0.1 kg              |
| Transmission frequency                        | 125 kHz                                 | 125 kHz             | 13.56 MHz               | 13.56 MHz           |
| Write/read distance                           |                                         |                     |                         |                     |
| - Static                                      | 18 mm                                   | 18 mm               | 35 mm                   | 35 mm               |
| - Dynamic (v = 20 m/min)                      | 16 mm                                   | 16 mm               | 30 mm                   | 30 mm               |
| Min. distance between two antennas            |                                         |                     |                         |                     |
| - Multiplex operation                         | 30 mm                                   | 50 mm               | 30 mm                   | 100 mm              |
| - Simultaneous operation                      | 180 mm                                  | 290 mm              | 80 mm                   | 150 mm              |