

**RO-IR SRD-08**

**TECHNICAL REGULATION**

**for the radio interface**

**concerning devices for inductive applications**

**(previous codification RO-IR 09)**

## 1. Basic Considerations

Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonization of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC was implemented in national legislation by Government Decision No 740/2016 on making available on the market of radio equipment, with subsequent amendments and completions.

This technical regulation contains the requirements for license-exempt use of radio spectrum by inductive devices in the specified frequency bands and considers compliance, especially, with the provisions of Article 3 Paragraph 2 and Articles 6-8 of Directive 2014/53/EU.

Nothing in this technical regulation shall preclude the obligation for radio equipment placed on the market or made available on the market in Romania to comply with Directive 2014/53/EU.

The obligations arising from Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services are met in this regulation (OJ L 241, 17.9.2015, p. 1-15).

All the Romanian technical regulations for the radio interfaces notified under Directive (EU) 2015/1535 shall be published and made available on National Authority for Management and Regulation in Communications (ANCOM) website at: [https://www.ancom.ro/en/romanian-regulation\\_2719](https://www.ancom.ro/en/romanian-regulation_2719).

## 2. Radio Interface Specifications

### Inductive devices

Frequency band	Annex
100 Hz – 9 kHz	RO-IR SRD-08-01
9 – 59.75 kHz	RO-IR SRD-08-02
59.75 – 60.25 kHz	RO-IR SRD-08-03
60.25 – 74.75 kHz	RO-IR SRD-08-04
74.75 – 75.25 kHz	RO-IR SRD-08-05
75.25 – 77.25 kHz	RO-IR SRD-08-06
77.25 – 77.75 kHz	RO-IR SRD-08-07
77.75 – 90 kHz	RO-IR SRD-08-08
90 – 119 kHz	RO-IR SRD-08-09
119 – 128.6 kHz	RO-IR SRD-08-10
128.6 – 129.6 kHz	RO-IR SRD-08-11
129.6 – 135 kHz	RO-IR SRD-08-12
135 – 140 kHz	RO-IR SRD-08-13
140 – 148.5 kHz	RO-IR SRD-08-14
148.5 – 5 000 kHz	RO-IR SRD-08-15
3 155 – 3 400 kHz	RO-IR SRD-08-16
5 000 – 30 000 kHz	RO-IR SRD-08-17

6 765 – 6 795 kHz	RO-IR SRD-08-18
7 400 – 8 800 kHz	RO-IR SRD-08-19
10 200 – 11 000 kHz	RO-IR SRD-08-20
13 553 – 13 567 kHz	RO-IR SRD-08-21

For the purpose of this technical regulation, *a proximity radio device (short-range device - SRD)* means a radio device which provides either unidirectional or bidirectional communication and which receives and/or transmits signals over a short distance and at a low power.

The *inductive device category* covers radio devices that use magnetic fields with inductive loop systems for communications in near field and radiodetermination applications. They include, usually, devices for: car immobilization, animal identification, alarms, cable detection, waste management, persons' identification, voice transmissions on radio support, access control, proximity and metal detection sensors, anti-theft systems, including RF anti-theft induction systems, data transfer to portable devices, automatic objects identification, radio control systems and electronic road tolling.

For the purpose of this technical regulation, *non-interference and non-protected basis* means that no harmful interference may be caused to any radio communications services and that no claim may be made for protection of these devices against harmful interferences originating from radio communications services.

The use of radio spectrum by proximity radio devices (short-range devices) is allowed on a non-interference and non-protected basis provided that such devices meet the conditions set out in the Annexes below.

### 3. Document History:

<b>Edition</b>	<b>Changes</b>
Edition 1/2014	Notification number according to Directive 98/34/EC: 2014/605/RO.
Edition 2/2018 (06.08.2018)	Update according to Commission Implementing Decision (EU) 2017/1483 amending Decision 2006/771/EC on harmonizing the radio spectrum for the use of short-range devices and repealing Decision 2006/804/EC: <ul style="list-style-type: none"> <li>RO-IR 09-21 is eliminated (26957–27283 kHz frequency band)</li> </ul> Update of the legal framework according to Point 1 – „Basic considerations” and reference documents (line 13); Formal changes according to TCAM-RSC model of November 2017.
Edition 3/2020 (23.12.2020)	Update according to Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC in order to update the harmonised technical conditions for the use of radio spectrum for short-range devices: <ul style="list-style-type: none"> <li>Introducing/updating some definitions and terms.</li> </ul> Update according to the list of Class 1 radio equipment subclasses (version of January 2020) published according to Article 1 Paragraph (3) of Commission Decision 2000/299/EC ( <a href="https://ec.europa.eu/docsroom/documents/40361">https://ec.europa.eu/docsroom/documents/40361</a> ).

<p>Edition 4/2021 (04.10.2021)</p>	<p>Updating according to ERC/REC 70-03 (version of 12 February 2021):</p> <ul style="list-style-type: none"> <li>• The 100 Hz – 9 kHz frequency band has been introduced (RO-IR SRD-08-01);</li> <li>• The rest of the technical specifications have been renumbered.</li> </ul> <p>Title changed according to Decision no 248/2021 amending and completing the Decision of the President of the National Authority for Management and Regulation in Communications of Romania no. 311/2016 on license exempt radio frequencies or radio frequency bands.</p> <p>Notification number according to Directive (EU) 2015/1535: 2021/350/RO.</p>
<p>Edition 5/2022 (11.10.2022)</p>	<p>Update according to Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices</p> <ul style="list-style-type: none"> <li>• Update of reference documents (line 13) and definitions Point 2.</li> </ul>

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-01	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	100 Hz – 9 kHz	
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	82 dBμA/m at 10 m. Antenna size < 1/20 λ.	Antenna size is defined as the distance between the two farthest points on the antenna (for example, the largest diagonal for a rectangular antenna or the diameter for a circular antenna).
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 303 447; EN 303 454; ERC/REC 70-03	
	14	Notification number	2021/350/RO	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-02	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	9 – 59.75 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	72 dBμA/m at 10 meters	
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-03	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	59.75 – 60.25 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	42 dBμA/m at 10 meters	
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

<b>ROMANIA</b>	<b>Radio Interface Specification</b>	<b>SRD / Inductive applications</b>	<b>RO-IR SRD-08-04</b>	<b>Edition 5/2022</b>
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	<b>No</b>	<b>Parameter</b>	<b>Description</b>	<b>Comments</b>
<b>Normative part</b>	<b>1</b>	<b>Radiocommunication Service</b>	Mobile	
	<b>2</b>	<b>Application</b>	Proximity radio devices (short-range)/ Inductive applications	
	<b>3</b>	<b>Frequency band</b>	60.25 – 74.75 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	<b>4</b>	<b>Channelling (channel distribution)</b>	-	
	<b>5</b>	<b>Modulation/Occupied bandwidth</b>	-	
	<b>6</b>	<b>Direction/Separation</b>	-	
	<b>7</b>	<b>Transmit power / Power density</b>	72 dBμA/m at 10 meters	
	<b>8</b>	<b>Channel occupation and access rules</b>	-	
	<b>9</b>	<b>Authorisation regime</b>	Licence exemption	
	<b>10</b>	<b>Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)</b>	-	
	<b>11</b>	<b>Assumptions on spectrum planning</b>	-	
<b>Informative part</b>	<b>12</b>	<b>Planned changes</b>	-	
	<b>13</b>	<b>Reference</b>	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	<b>14</b>	<b>Notification number</b>	-	
	<b>15</b>	<b>Remarks</b>	-	

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<b>ROMANIA</b>	<b>Radio Interface Specification</b>	<b>SRD / Inductive applications</b>	<b>RO-IR SRD-08-05</b>	<b>Edition 5/2022</b>
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	<b>No</b>	<b>Parameter</b>	<b>Description</b>	<b>Comments</b>
<b>Normative part</b>	<b>1</b>	<b>Radiocommunication Service</b>	Mobile	
	<b>2</b>	<b>Application</b>	Proximity radio devices (short-range)/ Inductive applications	
	<b>3</b>	<b>Frequency band</b>	74.75 – 75.25 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	<b>4</b>	<b>Channelling (channel distribution)</b>	-	
	<b>5</b>	<b>Modulation/Occupied bandwidth</b>	-	
	<b>6</b>	<b>Direction/Separation</b>	-	
	<b>7</b>	<b>Transmit power / Power density</b>	42 dBμA/m at 10 meters	
	<b>8</b>	<b>Channel occupation and access rules</b>	-	
	<b>9</b>	<b>Authorisation regime</b>	Licence exemption	
	<b>10</b>	<b>Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)</b>	-	
	<b>11</b>	<b>Assumptions on spectrum planning</b>	-	
<b>Informative part</b>	<b>12</b>	<b>Planned changes</b>	-	
	<b>13</b>	<b>Reference</b>	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	<b>14</b>	<b>Notification number</b>	-	
	<b>15</b>	<b>Remarks</b>	-	

F1- RTIR Edition:1; Revision:1

<b>ROMANIA</b>	<b>Radio Interface Specification</b>	<b>SRD / Inductive applications</b>	<b>RO-IR SRD-08-06</b>	<b>Edition 5/2022</b>
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	No	Parameter	Description	Comments
<b>Normative part</b>	<b>1</b>	<b>Radiocommunication Service</b>	Mobile	
	<b>2</b>	<b>Application</b>	Proximity radio devices (short-range)/ Inductive applications	
	<b>3</b>	<b>Frequency band</b>	75.25 – 77.25 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	<b>4</b>	<b>Channelling (channel distribution)</b>	-	
	<b>5</b>	<b>Modulation/Occupied bandwidth</b>	-	
	<b>6</b>	<b>Direction/Separation</b>	-	
	<b>7</b>	<b>Transmit power / Power density</b>	72 dBμA/m at 10 meters	
	<b>8</b>	<b>Channel occupation and access rules</b>	-	
	<b>9</b>	<b>Authorisation regime</b>	Licence exemption	
	<b>10</b>	<b>Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)</b>	-	
	<b>11</b>	<b>Assumptions on spectrum planning</b>	-	
<b>Informative part</b>	<b>12</b>	<b>Planned changes</b>	-	
	<b>13</b>	<b>Reference</b>	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	<b>14</b>	<b>Notification number</b>	-	
	<b>15</b>	<b>Remarks</b>	-	

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<b>ROMANIA</b>	<b>Radio Interface Specification</b>	<b>SRD / Inductive applications</b>	<b>RO-IR SRD-08-07</b>	<b>Edition 5/2022</b>
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	No	Parameter	Description	Comments
Normative part	1	<b>Radiocommunication Service</b>	Mobile	
	2	<b>Application</b>	Proximity radio devices (short-range)/ Inductive applications	
	3	<b>Frequency band</b>	77.25 – 77.75 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	<b>Channelling (channel distribution)</b>	-	
	5	<b>Modulation/Occupied bandwidth</b>	-	
	6	<b>Direction/Separation</b>	-	
	7	<b>Transmit power / Power density</b>	42 dBμA/m at 10 meters	
	8	<b>Channel occupation and access rules</b>	-	
	9	<b>Authorisation regime</b>	Licence exemption	
	10	<b>Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)</b>	-	
	11	<b>Assumptions on spectrum planning</b>	-	
Informative part	12	<b>Planned changes</b>	-	
	13	<b>Reference</b>	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	<b>Notification number</b>	-	
	15	<b>Remarks</b>	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-08	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	77.75 – 90 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	72 dBμA/m at 10 meters	
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-09	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	90 – 119 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	42 dBμA/m at 10 meters	
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

<b>ROMANIA</b>	<b>Radio Interface Specification</b>	<b>SRD / Inductive applications</b>	<b>RO-IR SRD-08-10</b>	<b>Edition 5/2022</b>
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	No	Parameter	Description	Comments
<b>Normative part</b>	<b>1</b>	<b>Radiocommunication Service</b>	Mobile	
	<b>2</b>	<b>Application</b>	Proximity radio devices (short-range)/ Inductive applications	
	<b>3</b>	<b>Frequency band</b>	119 – 128.6 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	<b>4</b>	<b>Channelling (channel distribution)</b>	-	
	<b>5</b>	<b>Modulation/Occupied bandwidth</b>	-	
	<b>6</b>	<b>Direction/Separation</b>	-	
	<b>7</b>	<b>Transmit power / Power density</b>	66 dBμA/m at 10 meters	
	<b>8</b>	<b>Channel occupation and access rules</b>	-	
	<b>9</b>	<b>Authorisation regime</b>	Licence exemption	
	<b>10</b>	<b>Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)</b>	-	
	<b>11</b>	<b>Assumptions on spectrum planning</b>	-	
<b>Informative part</b>	<b>12</b>	<b>Planned changes</b>	-	
	<b>13</b>	<b>Reference</b>	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	<b>14</b>	<b>Notification number</b>	-	
	<b>15</b>	<b>Remarks</b>	-	

F1- RTIR Edition:1; Revision:1

<b>ROMANIA</b>	<b>Radio Interface Specification</b>	<b>SRD / Inductive applications</b>	<b>RO-IR SRD-08-11</b>	<b>Edition 5/2022</b>
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	<b>No</b>	<b>Parameter</b>	<b>Description</b>	<b>Comments</b>
<b>Normative part</b>	<b>1</b>	<b>Radiocommunication Service</b>	Mobile	
	<b>2</b>	<b>Application</b>	Proximity radio devices (short-range)/ Inductive applications	
	<b>3</b>	<b>Frequency band</b>	128.6 – 129.6 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	<b>4</b>	<b>Channelling (channel distribution)</b>	-	
	<b>5</b>	<b>Modulation/Occupied bandwidth</b>	-	
	<b>6</b>	<b>Direction/Separation</b>	-	
	<b>7</b>	<b>Transmit power / Power density</b>	42 dBμA/m at 10 meters	
	<b>8</b>	<b>Channel occupation and access rules</b>	-	
	<b>9</b>	<b>Authorisation regime</b>	Licence exemption	
	<b>10</b>	<b>Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)</b>	-	
	<b>11</b>	<b>Assumptions on spectrum planning</b>	-	
<b>Informative part</b>	<b>12</b>	<b>Planned changes</b>	-	
	<b>13</b>	<b>Reference</b>	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	<b>14</b>	<b>Notification number</b>	-	
	<b>15</b>	<b>Remarks</b>	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-12	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	129.6 – 135 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	66 dBμA/m at 10 meters	
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1



<b>ROMANIA</b>	<b>Radio Interface Specification</b>	<b>SRD / Inductive applications</b>	<b>RO-IR SRD-08-13</b>	<b>Edition 5/2022</b>
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	<b>No</b>	<b>Parameter</b>	<b>Description</b>	<b>Comments</b>
<b>Normative part</b>	<b>1</b>	<b>Radiocommunication Service</b>	Mobile	
	<b>2</b>	<b>Application</b>	Proximity radio devices (short-range)/ Inductive applications	
	<b>3</b>	<b>Frequency band</b>	135 – 140 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	<b>4</b>	<b>Channelling (channel distribution)</b>	-	
	<b>5</b>	<b>Modulation/Occupied bandwidth</b>	-	
	<b>6</b>	<b>Direction/Separation</b>	-	
	<b>7</b>	<b>Transmit power / Power density</b>	42 dBμA/m at 10 meters	
	<b>8</b>	<b>Channel occupation and access rules</b>	-	
	<b>9</b>	<b>Authorisation regime</b>	Licence exemption	
	<b>10</b>	<b>Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)</b>	-	
	<b>11</b>	<b>Assumptions on spectrum planning</b>	-	
<b>Informative part</b>	<b>12</b>	<b>Planned changes</b>	-	
	<b>13</b>	<b>Reference</b>	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	<b>14</b>	<b>Notification number</b>	-	
	<b>15</b>	<b>Remarks</b>	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-14	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	140 – 148.5 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	37.7 dBμA/m at 10 meters	
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-15	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	148.5 – 5 000 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	– 15 dBμA/m at 10 meters in any bandwidth of 10 kHz. In addition, the total field strength is – 5 dBμA/m at 10 m for systems operating in bandwidths larger than 10 kHz	<i>In the 3 155 – 3 400 kHz frequency band higher field strength values and additional usage restrictions for inductive applications shall apply</i>
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; EN 302 536; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-16	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	3 155 – 3 400 kHz	Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	13.5 dBμA/m at 10 meters	
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-17	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	5 000 – 30 000 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	– 20 dBμA/m at 10 meters in any bandwidth of 10 kHz. In addition, the total field strength is – 5 dBμA/m at 10 m for systems operating at bandwidths larger than 10 kHz	<i>In the 6 765 – 6 795 kHz, 7 400 – 8 800 kHz, 10 200 – 11 000 kHz, 13 553 – 13 567 kHz and 26 957 – 27 283 kHz frequency bands, higher field strength values and additional usage restrictions for inductive applications shall apply</i>
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-18	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	6 765 – 6 795 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	42 dBμA/m at 10 meters	
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-19	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	7 400 – 8 800 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	9 dBμA/m at 10 meters	
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-20	Edition 5/2022
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	10 200 – 11 000 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	9 dBμA/m at 10 meters	
	8	Channel occupation and access rules	-	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1



ROMANIA	Radio Interface Specification	SRD / Inductive applications	RO-IR SRD-08-21	Edition 5/2021
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	No	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range)/ Inductive applications	
	3	Frequency band	13 553 – 13 567 kHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channelling (channel distribution)	-	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	42 dBμA/m at 10 meters	
	8	Channel occupation and access rules	Requirements for transmission mask and antenna requirements for all combined frequency bands segments are applicable.	<i>Antenna requirements that provide an appropriate performance level to comply with the essential requirements provisioned in Directive 2014/53/EU shall apply. If the relevant restrictions are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to these restrictions shall be ensured.</i>  <i>A transmission mask that provides an appropriate performance level to comply with the essential requirements provisioned in Directive 2014/53/EU shall apply. If the relevant restrictions are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to these restrictions shall be ensured.</i>
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	
	11	Assumptions on spectrum planning	-	

<b>Informative part</b>	<b>12</b>	<b>Planned changes</b>	-	
	<b>13</b>	<b>Reference</b>	EN 300 330; Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC as regards the update of harmonised technical conditions in the area of radio spectrum use for short-range devices; ERC/REC 70-03	
	<b>14</b>	<b>Notification number</b>	-	
	<b>15</b>	<b>Remarks</b>	-	

F1- RTIR Edition:1; Revision:1