

RO-IR SRD-06

TECHNICAL REGULATION

for the radio interface concerning alarm systems

(previous coding RO-IR 07)

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 proximity radio devices (short-range devices) intended for alarm systems including social alarm systems, 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 shall be made available on National Authority for Management and Regulation in Communications (ANCOM) website at: http://www.ancom.ro/reglementari-interfete_2723.

2. Radio Interface Specifications

Alarm Systems (devices with low usage regime / with high reliability)

Frequency band	Annex
868.6 – 868.7 MHz	RO-IR SRD-06-01
869.2 – 869.25 MHz	RO-IR SRD-06-02
869.25 – 869.3 MHz	RO-IR SRD-06-03
869.3 – 869.4 MHz	RO-IR SRD-06-04
869.65 – 869.7 MHz	RO-IR SRD-06-05

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 low power.

For the purposes of this technical regulation, the category of *reliable alarm devices* covers radio devices that use radio communication support for indicating an alert to a system or a person, as a main functionality, at a distant location when a problem or a specific situation occurs. Radio alarms include social alarms and alarms for security and safety.

Social alarm devices mean radio communications systems that allow reliable communication in a given area for a person in distress to initiate a call for assistance. Typical uses of social alarms are to assist elderly or disabled people.

For the purpose of this technical regulation, *duty cycle* means the ratio, expressed as a percentage, of $\Sigma(Ton)/(Tobs)$ where *Ton* is the "on" time of a single transmitter device and *Tobs* is the observation period. *Ton* is measured in an observation frequency band (*Fobs*). Unless otherwise specified in this technical annex, *Tobs* is a continuous one hour period and *Fobs* is the applicable frequency band in this technical annex.

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

The use of radio spectrum by short-range devices is permitted on a non-interference and non-protected basis provided that such equipment meets the conditions set out in the Annex.

3. Document History:

Edition	Changes
Edition 1/2014	Notification number according to Directive 98/34/EC: 2014/603/RO.
Edition 2/2018 (06.08.2018)	Update according to Commission Implementing Decision (EU) 2017/1483 amending Decision 2006/771/EC on harmonization of the radio spectrum for use by short-range devices and repealing Decision 2006/804/EC; Update of the legal framework according to Point 1 – „Basic considerations“; 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 updating harmonized technical conditions in the area of radio spectrum use for short-range devices: <ul style="list-style-type: none"> • Update of some definitions and terms. Update of the legal framework according to Point 1 – „Basic considerations“ and reference documents (line 13).
Edition 4/2022 (11.10.2022)	Update according to Commission Implementing Decision (EU) 2022/180 amending Decision 2006/771/EC to update the technical requirements for radio spectrum use by short-range devices (SRDs) <ul style="list-style-type: none"> • Update of reference documents (line 13) and definitions point 2.
Edition 5/2025 (22.12.2025)	Update according to Commission Implementing Decision (EU) 2025/105 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices and repealing Implementing Decision 2014/641/EU on harmonised technical conditions of radio spectrum use by wireless audio programme making and special events equipment in the Union.

ROMANIA	Radio Interface Specification	SRD / Alarm systems	RO-IR SRD-06-01	Edition 5/2025
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	No	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range) / Reliable alarm devices	
	3	Frequency band	868.6 – 868.7 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2025/105 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices and repealing Implementing Decision 2014/641/EU on harmonised technical conditions of radio spectrum use by wireless audio programme making and special events equipment in the Union)</i>
	4	Channeling (channel distribution)		
	5	Modulation/Occupied bandwidth	Bandwidth ≤ 25 kHz The whole frequency band may also be used as a single channel	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW effective radiated power (e.r.p.)	
	8	Channel occupation and access rules	Duty cycle ≤ 1 %	
	9	Authorization 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 300 220; Commission Implementing Decision (EU) 2025/105 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices and repealing Implementing Decision 2014/641/EU on harmonised technical conditions of radio spectrum use by wireless audio programme making and special events equipment in the Union; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Alarm systems	RO-IR SRD-06-02	Edition 5/2025
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	No	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range) / Reliable alarm devices	<i>This set of usage conditions is only available for social alarm devices.</i>
	3	Frequency band	869.2 – 869.25 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2025/105 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices and repealing Implementing Decision 2014/641/EU on harmonised technical conditions of radio spectrum use by wireless audio programme making and special events equipment in the Union)</i>
	4	Channeling (channel distribution)	Channel spacing: 25 kHz	
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel occupation and access rules	Duty cycle ≤ 0.1 %	
	9	Authorization 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 300 220; Commission Implementing Decision (EU) 2025/105 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices and repealing Implementing Decision 2014/641/EU on harmonised technical conditions of radio spectrum use by wireless audio programme making and special events equipment in the Union; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Alarm systems	RO-IR SRD-06-03	Edition 5/2025
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	No	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range) / Reliable alarm devices	
	3	Frequency band	869.25 – 869.3 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2025/105 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices and repealing Implementing Decision 2014/641/EU on harmonised technical conditions of radio spectrum use by wireless audio programme making and special events equipment in the Union)</i>
	4	Channeling (channel distribution)		
	5	Modulation/Occupied bandwidth	Bandwidth ≤ 25 kHz	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel occupation and access rules	Duty cycle ≤ 0.1%	
	9	Authorization 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 300 220; Commission Implementing Decision (EU) 2025/105 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices and repealing Implementing Decision 2014/641/EU on harmonised technical conditions of radio spectrum use by wireless audio programme making and special events equipment in the Union; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

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ROMANIA	Radio Interface Specification	SRD / Alarm systems	RO-IR SRD-06-04	Edition 5/2025
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	No	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range) / Reliable alarm devices	
	3	Frequency band	869.3 – 869.4 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2025/105 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices and repealing Implementing Decision 2014/641/EU on harmonised technical conditions of radio spectrum use by wireless audio programme making and special events equipment in the Union)</i>
	4	Channeling (channel distribution)		
	5	Modulation/Occupied bandwidth	Bandwidth ≤ 25 kHz	
	6	Direction/Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel occupation and access rules	Duty cycle ≤ 1%	
	9	Authorization 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 300 220; Commission Implementing Decision (EU) 2025/105 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices and repealing Implementing Decision 2014/641/EU on harmonised technical conditions of radio spectrum use by wireless audio programme making and special events equipment in the Union; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

F1- RTIR Edition:1; Revision:1

ROMANIA	Radio Interface Specification	SRD / Alarm systems	RO-IR SRD-06-05	Edition 5/2025
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	No	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Proximity radio devices (short-range) / Reliable alarm devices	
	3	Frequency band	869.65 – 869.7 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2025/105 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices and repealing Implementing Decision 2014/641/EU on harmonised technical conditions of radio spectrum use by wireless audio programme making and special events equipment in the Union)</i>
	4	Channeling (channel distribution)		
	5	Modulation/Occupied bandwidth	Bandwidth ≤ 25 kHz	
	6	Direction/Separation	-	
	7	Transmit power / Power density	25 mW e.r.p.	
	8	Channel occupation and access rules	Duty cycle ≤ 10 %	
	9	Authorization regime	License 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 300 220; Commission Implementing Decision (EU) 2025/105 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices and repealing Implementing Decision 2014/641/EU on harmonised technical conditions of radio spectrum use by wireless audio programme making and special events equipment in the Union; ERC/REC 70-03	
	14	Notification number	-	
	15	Remarks	-	

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