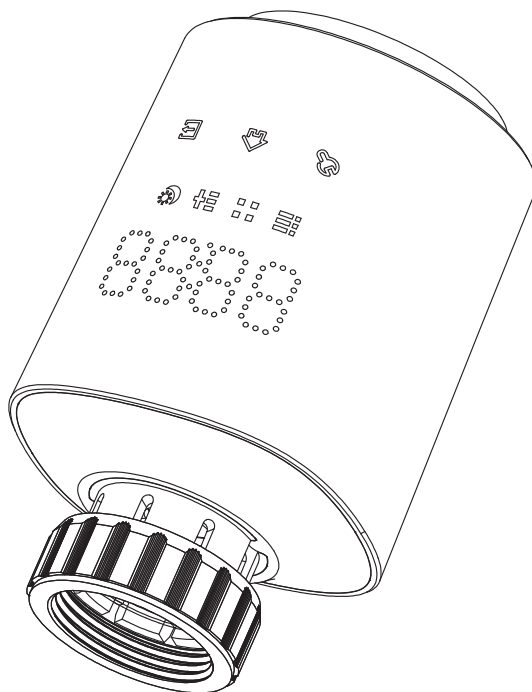


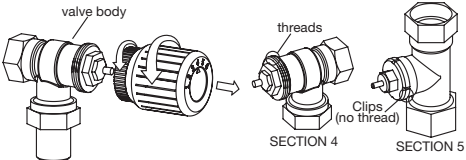
SMART⁺ WIFI RADIATOR THERMOSTAT



	EAN	°C
SMART WIFI RADIATOR THERMOSTAT	4099854418914	-10...+45
SMART WIFI RADIATOR THERMOSTAT 4X3	4099854418945	-10...+45

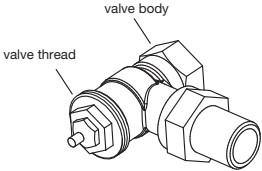
3 Identify Radiator Valve

The radiator thermostat is easy to install and can be mounted without draining the heating water and without interfering with the heating system. No special tools are required and the heating system does not need to be switched off. The built-in connecting nut M30x1.5mm can be used universally for most common valve manufacturers without the need for additional adapters. For Danfoss RA/RAV/RAVL, Giacomini, Caleffi and M28x1.5 valves, the valve connection adapters are included in the accessories package.



Remove the old mechanical thermostat head from the valve to access the valve body.
Check which valve is installed to select the correct installation variant. If your valve body has a thread, continue with section 4. If your valve body has clips without threads, continue with section 5. of this document.

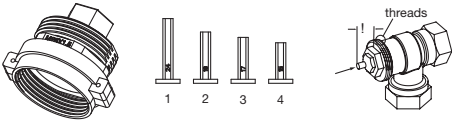
4 Valve Body with Thread



Check the diameter of your valve thread.
No adapter is required for an M30x1.5 valve, as the screw connection fits directly.
An adapter is required for M28x1.5mm valves.

4.1 Valve Body with M28x1.5 Thread

The M28 adapter is suitable for almost all valve bodies with M28 x 1.5 mm connection thread. To compensate for different valve heights, this set includes 4 different extension pins. If the manufacturer of the valve can be recognized by a print or symbol on the valve, then select the correct pin according to the following table. If the manufacturer cannot be identified, the closing dimension of the valve can also be determined as an alternative. To do this, press the valve pin all the way down (the valve is then fully closed) and measure the height of the valve pin relative to the surface of the adapter (A). The appropriate extension pin can then be taken from the second table.



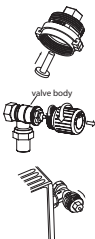
Pin No.	Pin Size	Valve Close Size (A)	Valve Manufacturer	Pin No.
1	24.0 mm	1.0 - 3.0 mm	SAM, Slovarm	
2	18.5 mm	6.5 - 8.5 mm	Comap, Markaryds, TA	
3	17.0 mm	8.5 - 10 mm	Herz, MMA, Remagg	
4	15.0 mm	10.0 - 12.0 mm		

Installation of M28x1.5 adapter:

Insert the extension pin into the adapter attachment from the inside. This is only possible in one position, as one side of the extension pin is flattened to prevent it from twisting.

Turn the old mechanical thermostat head to the maximum value. This prevents the thermostatic head from pressing on the valve spindle and makes it easier to remove. Loosen the union nut completely. Turn it counterclockwise. The head can now be removed from the valve.

Screw the adapter clockwise onto the valve thread. Do not use tools such as wrenches or pliers, as this could damage the adapter. Finally, screw the new thermostat onto the adapter.

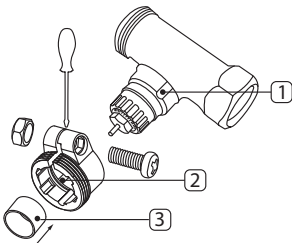


5 Valve Body with Clip (no Thread)

Check which adapter is required for the installed valve body. The valve can be identified either by the corresponding marking on the valve or by its visual appearance. For visual identification, the valve types are shown schematically below and the corresponding adapters are illustrated.

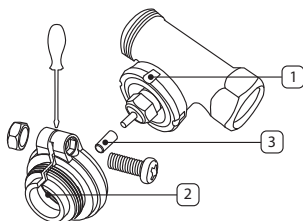
RA

During installation, make sure that the pins inside the adapter (2) match the notches (1) on the valve body. Ensure that the appropriate adapter for the valve is clipped on correctly. The valves of different manufacturers may have tolerance variations, so that the radiator thermostat sits more loosely on the valve. In this case, the supplied support ring (3) should be inserted into the flange before installing the radiator thermostat.



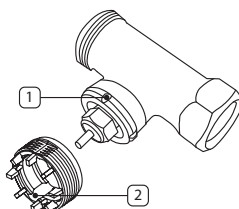
RAV

During installation, make sure that the pins inside the adapter (2) match the notches (1) on the valve body. Ensure that the appropriate adapter for the valve is clipped on correctly. The lifter extension (3) must be fitted to the valve pin on RAV valves before installation.



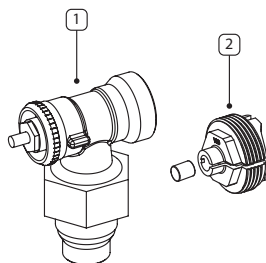
RAVL

During installation, make sure that the pins inside the adapter (2) match the notches (1) on the valve body. Ensure that the appropriate adapter for the valve is clipped on correctly.



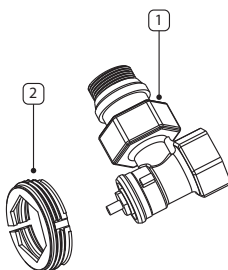
Giacomini

During installation, make sure that the pins inside the adapter (2) match the notches (1) on the valve body. Ensure that the appropriate adapter for the valve is clipped on correctly.

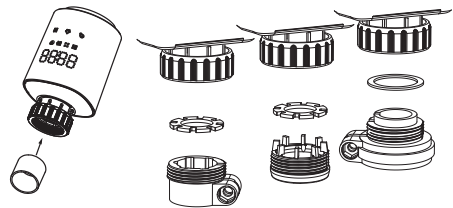


Caleffi

During installation, make sure that the pins inside the adapter (2) match the notches (1) on the valve body. Ensure that the appropriate adapter for the valve is clipped on correctly.



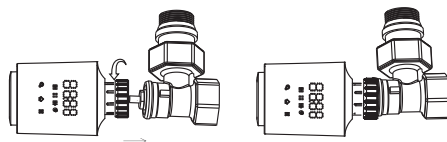
Adjusting the Axle Tolerances



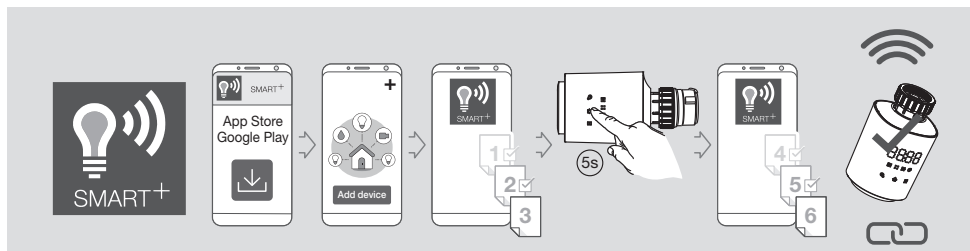
The valves from different manufacturers may have tolerance fluctuations that make the radiator thermostats on the valve. In this case, the provided support ring should be placed into the flange before mounting the radiator thermostat.

In some cases, where the valve pin has a different length greater than 14mm or the radiator cannot close the valve to go down the temperature, you will need to add a spacer inside the base ring. The spacer comes with two thicknesses, 0.5mm/1mm. (refer to trouble shooting code F4).

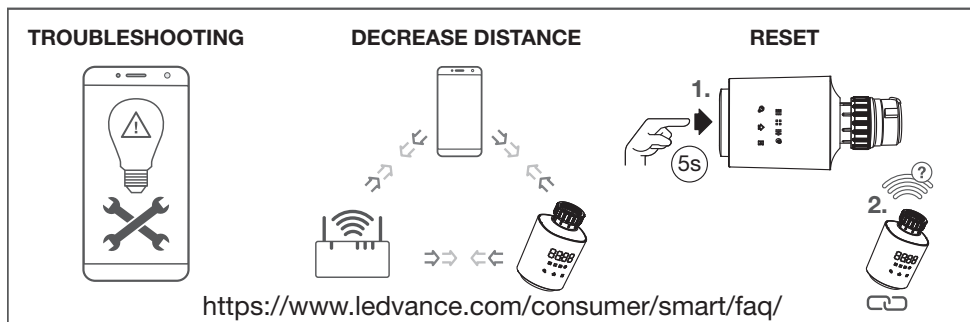
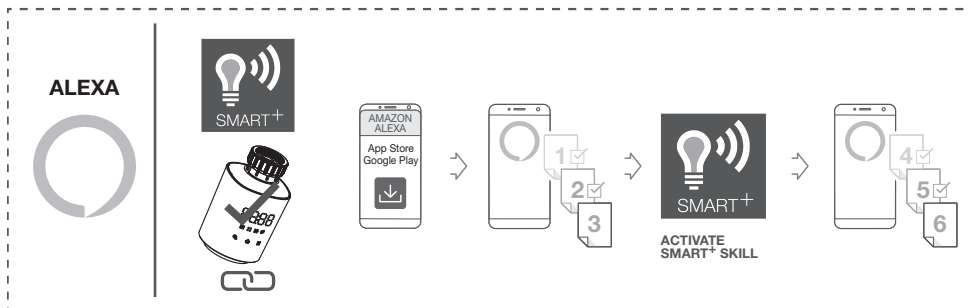
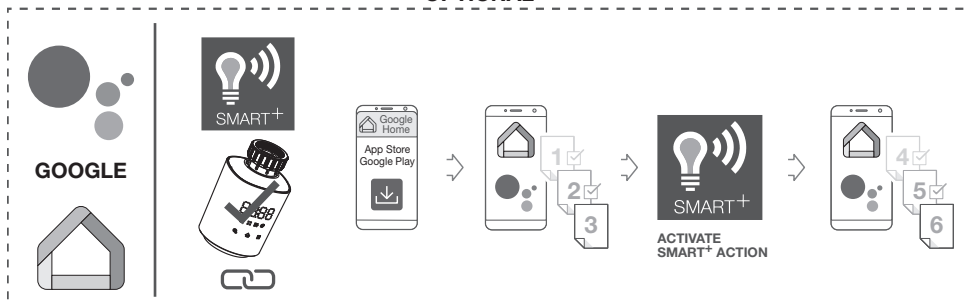
Finalizing the Hardware Installation



- After "AdA" appears, the radiator is ready to fix with valve.
- Turn the thread ring to fix with valve.
- After the valve is well fixed, then press "Confirm" button (F) to enter adaptation step. In the end, the main menu default set temperature 17° appears. Then the device is well installed. If screen display "F1/F2/F3/F4", refer to the trouble shooting chapter.



OPTIONAL



F-Code	Description	Solution
F1	Valve drive sluggish	Check whether valve pin is stuck
F2	Actuation range too wide	Check whether valve pin is not installed in place, if the screw is fastened
F3	Adjustment range too small	Check whether valve pin is stuck
F4	Valve adaption failed	Check whether valve bearing moving distance too small and adjust the distance with the provided spacers

FAQ



<https://smartplus.ledvance.com/faq>

⑥ Hiermit erklärt LEDVANCE, dass die Funkanlage vom Typ OSRAM SMART+ den Bestimmungen der Richtlinie 2014/53/EU entspricht. Den vollständigen Text der EU-Konformitätserklärung finden Sie unter der folgenden Adresse: smartplus.ledvance.com/declaration-of-conformity. Drahtlose Funkverbindung verwendet in WIFI-Lampen/-Leuchten/-Komponenten 2412-2472 MHz, max. HF-Ausgangsleistung 20 dBm. Drahtlose Funkverbindung verwendet in Bluetooth-Lampen/-Leuchten/-Komponenten 2402-2480 MHz, max. RF output power 20 dBm. Wireless radio used in Bluetooth lamps/ luminaires/ components 2402-2480 MHz, max. RF output power 16 dBm

⑥ Hereby, LEDVANCE declares that the radio equipment type OSRAM SMART+ Device is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: smartplus.ledvance.com/declaration-of-conformity. Wireless radio used in WIFI lamps/ luminaires/ components 2412-2472 MHz, max. RF output power 20 dBm. Wireless radio used in Bluetooth lamps/ luminaires/ components 2402-2480 MHz, max. RF output power 16 dBm

⑥ LEDVANCE atteste que le type d'équipement radio du dispositif OSRAM SMART+ est conforme à la directive 2014/53/EU. Le texte intégral de la déclaration de conformité UE est disponible à l'adresse internet suivante: smartplus.ledvance.com/declaration-of-conformity. Fréquences radio utilisées dans les lampes/ luminaires/ composants WIFI 2412-2472 MHz, puissance de sortie RF max. 20 dBm. Fréquences radio utilisées dans les lampes/ luminaires/ composants Bluetooth 2 402 à 2 480 MHz, puissance de sortie RF max. 16 dBm

⑥ Con il presente, LEDVANCE dichiara che il dispositivo radio OSRAM SMART+ è conforme alla Direttiva 2014/53/UE. Il testo completo della Dichiarazione di Conformità UE è disponibile all'indirizzo internet che segue: smartplus.ledvance.com/declaration-of-conformity. Radio wireless utilizzata in lampadine/impianti di illuminazione/componenti WIFI 2412-2472 MHz, potenza uscita RF max. 20 dBm. Radio wireless utilizzata in lampadine/impianti di illuminazione/componenti Bluetooth 2402-2480 MHz, potenza uscita RF max. 16 dBm

⑥ Por la presente, LEDVANCE declara que el tipo de equipo de radio SMART+ de LEDVANCE cumple la Directiva 2014/53/UE. El texto completo de la declaración de conformidad de la UE está disponible en la siguiente dirección de Internet: smartplus.ledvance.com/declaration-of-conformity. Se usa radio inalámbrico usado en lámparas, luminarias y componentes de WIFI 2412-2472 MHz, potencia de salida de RF max. de 20 dBm. Se usa radio inalámbrico usado en lámparas, luminarias y componentes de Bluetooth 2402-2480 MHz, potencia de salida de RF max. de 16 dBm

⑥ Pela presente, a LEDVANCE declara que o equipamento de rádio tipo OSRAM SMART+ Device está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade da UE está disponível no seguinte endereço de internet: smartplus.ledvance.com/declaration-of-conformity. Rádio sem fios utilizado em lâmpadas/luminárias/componentes WIFI 2412-2472 MHz, potência de saída máxima de RF 20 dBm. Rádio sem fios utilizado em lâmpadas/luminárias/componentes Bluetooth 2402-2480 MHz, potência de saída máxima de RF 16 dBm

⑥ Με το παρόν, η LEDVANCE δηλώνει ότι η συσκευή ραδιοεξοπλισμού OSRAM SMART+ συμμορφώνεται με την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης της ΕΕ είναι διαθέσιμο στην ακόλουθη διεύθυνση στο Διαδίκτυο: smartplus.ledvance.com/declaration-of-conformity. Ασύρματο ραδιόφωνο που χρησιμοποιείται σε λαμπτήρες/φωτιστικά/εξαρτήματα WIFI 2412-2472 MHz, μέγιστη ισχύς εξόδου RF 20 dBm. Ασύρματο ραδιόφωνο που χρησιμοποιείται σε λαμπτήρες/φωτιστικά/εξαρτήματα Bluetooth 2402-2480 MHz, μέγιστη ισχύς εξόδου RF 16 dBm

⑥ Hierbij verklaart LEDVANCE dat de radioapparatuur van het type OSRAM SMART+ voldoet aan Richtlijn 2014/53/EU. De volledige tekst van de EU-verklaring van conformiteit is beschikbaar op het volgende internetadres: smartplus.ledvance.com/declaration-of-conformity. Draadloze radio gebruikt in WIFI lampen/armaturen/onderdelen 2412-2472 MHz, max. RF uitgangsvermogen 20 dBm. Draadloze radio gebruikt in Bluetooth lampen/armaturen/onderdelen 2402-2480 MHz, max. RF uitgangsvermogen 16 dBm

⑥ Härmed deklarerar LEDVANCE att radioutrustningsenheten av typen OSRAM SMART+ uppfyller kraven i Direktiv 2014/53/EU. Hela texten i EU:s deklaration om överensstämmelse finns tillgänglig på följande internetadress: smartplus.ledvance.com/declaration-of-conformity. Trådlös radio använd i WIFI lampor/armaturer/komponenter 2412-2472 MHz, max. RF uteffekt 20 dBm. Trådlös radio använd i Bluetooth lampor/armaturer/komponenter 2402-2480 MHz, max. RF uteffekt 16 dBm

CUSTOMER SUPPORT



<https://www.ledvance.com/consumer/smart/faq>

MHz, max. RF uteffekt 16 dBm

⑥ LEDVANCE täten vahvistada, etta OSRAM SMART+ -tüüppinen radioalaite täyttää direktiivin 2014/53/EU vaatimukset. Löydät EU-vaatimustenmukaisuusvaatutuksen kokonaisuudessaan osoitteesta smartplus.ledvance.com/declaration-of-conformity. WIFI-lampuissa/-valaisimissa/-komponenteissa käytettävä langaton radio 2412-2472 MHz, maks. RF-lähtöteho 20 dBm. Bluetooth-lampuissa/-valaisimissa/-komponenteissa käytettävä langaton radio 2402-2480 MHz, maks. RF-lähtöteho 16 dBm

⑥ LEDVANCE erklærer herved at radioustrøyt av type OSRAM SMART+ er i samsvar med EU-direktiv 2014/53/EU. EU-samsvarserklæringens fulle tekst er tilgjengelig på følgende nettsider: smartplus.ledvance.com/declaration-of-conformity. Trådløs radio benyttet i WIFI-lamper/-armaturer/-komponenter 2412-2472 MHz, maks. RF-utgangseffekt 20 dBm. Trådløs radio benyttet i Bluetooth-lamper/-armaturer/-komponenter 2402-2480 MHz, maks. RF-utgangseffekt 16 dBm

⑥ Hermed erklærer LEDVANCE, at det trådløse udstyr type OSRAM SMART+ er i overensstemmelse med direktiv 2014/53/EU. EU overensstemmelseserklæringens fulde tekst findes på følgende internet-adresse: smartplus.ledvance.com/declaration-of-conformity. Trådløs radio anvendt i WIFI pærer/ lysarmaturer/ komponenter 2412-2472 MHz, max. RF udgangseffekt 20 dBm. Trådløs radio anvendt i Bluetooth pærer/ lysarmaturer/ komponenter 2402-2480 MHz, max. RF udgangseffekt 16 dBm

⑥ Společnost LEDVANCE prohlašuje, že vysílaci vybavení zařízení OSRAM SMART+ splňuje požadavky směrnice 2014/53/EU. Celý text ES prohlášení o shodě naleznete na následující internetové adrese: smartplus.ledvance.com/declaration-of-conformity. Vysílací pouzít v žárovkách/ svítilnách/prvích WIFI využívá frekvenci 2412-2472 MHz, maximální vyzářovaný RF výkon 20 dBm. Vysílací pouzít v žárovkách/svítilnách/prvích Bluetooth využívá frekvenci 2402-2480 MHz, maximální vyzářovaný RF výkon 16 dBm

⑥ Штм документом компания LEDVANCE подтверждает, что радиооборудование типа OSRAM SMART+ Device соответствует требованиям Директивы 2014/53/EU для радиооборудования. Полный текст Декларации Соответствия ЕС можно найти по адресу: smartplus.ledvance.com/declaration-of-conformity. Беспроводное радиоустройство используется в лампах WIFI/светильниках/компонентах с частотой 2412-2472 МГц и выходной радиомощностью 20 дБм. Какой тип беспроводного радиоприемника используется в лампах Bluetooth/светильниках/компонентах С частотой 2402-2480 МГц и максимальной выходной радиомощностью 16 дБм.

⑥ A LEDVANCE ezenmel kijelenti, hogy a OSRAM SMART+ típusú rádió berendezés teljesíti a 2014/53/EU irányelv előírásait. Az EU megelégedéssel nyilatkozott teljes szövege megtalálható a következő internetes oldalon: smartplus.ledvance.com/declaration-of-conformity. WIFI izóközban/lámpatestekben/ komponensekben használt vezeték nélküli rádió: 2412-2472 MHz, max. kimenő RF teljesítmény 20 dBm. Bluetooth izóközban/lámpatestekben/ komponensekben használt vezeték nélküli rádió: 2402-2480 MHz, max. kimenő RF teljesítmény 16 dBm

⑥ Firma LEDVANCE deklaruje, że urządzenia wykorzystujące fale radiowe typu OSRAM SMART+ spełniają wymogi dyrektywy 2014/53/EU. Pełen tekst europejskiej deklaracji zgodności dostępny jest pod adresem internetowym: smartplus.ledvance.com/declaration-of-conformity. Moduł sieci bezprzewodowej użyty w lampach/oprawach/elementach WIFI: 2412-2472 MHz, maks. moc wyjściowa sygnału bezprzewodowego – 20 dBm. Moduł sieci bezprzewodowej użyty w lampach/oprawach/elementach Bluetooth: 2402-2480 MHz, maks. moc wyjściowa sygnału bezprzewodowego – 16 dBm

⑥ Týmto spoločnosť LEDVANCE prehlasuje, že rádiové zariadenie typu OSRAM SMART+ spĺňa smernicu 2014/53/EU. Celé znenie prehlásenia o zhode EU je dostupné na tejto internetovej adrese: smartplus.ledvance.com/declaration-of-conformity. Bezdrôtový rádiopriemník pouzít v žiarovkách/svítilniach/ komponentoch WIFI 2412-2472 MHz, max. RF výstupný výkon 20 dBm. Bezdrôtový rádiopriemník pouzít v žiarovkách/svítilniach/ komponentoch Bluetooth 2402-2480 MHz, max. RF výstupný výkon 16 dBm

Ⓔ S tem družba LEDVANCE izjavlja, da je naprava OSRAM SMART+ , ki sodi med radijsko opremo, skladna z Direktivo št. 2014/53/EU. Četlino besedilo izjave EU o skladnosti je na voljo na naslednjem internetnem naslovu: smartplus.ledvance.com/declaration-of-conformity. Brežžični radio, ki se uporablja v svetilkah/sijalkah/komponentah WIFI 2412-2472 MHz, maks. RF oddajana moč 20 dBm. Brežžični radio, ki se uporablja v svetilkah/sijalkah/komponentah Bluetooth 2402-2480 MHz, maks. RF oddajana moč 16 dBm

Ⓕ Burada, LEDVANCE, telişiz ekipman tipi OSRAM SMART+ Cihazının 2014/53/EU Direktifine uygun olduğunu beyan eder. EU uygunluk beyanının tam metni aşağıdaki internet adresinde mevcuttur. smartplus.ledvance.com/declaration-of-conformity. WIFI lambaları / armatürleri/bileşenlerinde kullanılan kablosuz radyo 2412-2472 MHz, maks. RF çıkış gücü 20 dBm. Bluetooth lambaları/armatürleri/bileşenlerinde kullanılan kablosuz radyo 2402-2480 MHz, maks. RF çıkış gücü 16 dBm

Ⓖ Omvim tvrtka LEDVANCE izjavljuje da je radio oprema tipa uređaja OSRAM SMART+ u skladu s direktivom 2014/53/EU. Cjelokupni tekst EU izjave o sukladnosti dostupan je na sledećoj internetkoj adresi: smartplus.ledvance.com/declaration-of-conformity. Bežični radiouređaj koji se upotrebljava u žaruljama/svetiljkama/komponentama s funkcijom WIFI, frekvencija iznosi 2412-2472 MHz, a maks. radiofrekvencijska izlazna snaga 20 dBm. Bežični radiouređaj koji se upotrebljava u žaruljama/svetiljkama/komponentama s funkcijom Bluetooth, frekvencija iznosi 2402-2480 MHz, a maks. radiofrekvencijska izlazna snaga 16 dBm

Ⓖ Prin prezenta, LEDVANCE declară că echipamentul radio Dispozitiv OSRAM SMART+ respectă Directiva 2014/53/UE. Textul complet al declaraţiei de conformitate UE este disponibil online la următoarea adresă: smartplus.ledvance.com/declaration-of-conformity. Radio fără fir foloseşte la lămpi/sisteme de iluminat/componente WIFI 2412-2472 MHz, putere rezultată max. RF 20 dBm. Radio fără fir foloseşte la lămpi/sisteme de iluminat/componente Bluetooth 2402-2480 MHz, putere rezultată max. RF 16 dBm

Ⓖ С настоящото LEDVANCE декларира, че радиосъоръжението тип устройство OSRAM SMART+ е в съответствие с Директива 2014/53/ЕС. Пълният текст на ЕС декларацията за съответствие е наличен на следния интернет адрес: smartplus.ledvance.com/declaration-of-conformity. Безжични радиоустройства, използвани в WIFI лампи / осветителни тела/компоненти 2412-2472 MHz, макс. РЧ изходна мощност 20 dBm. Безжични радиоустройства, използвани в Bluetooth лампи / осветителни тела / компоненти 2402-2480 MHz, макс. РЧ изходна мощност 16 dBm

Ⓖ LEDVANCE kinnitab käesolevaga, et OSRAM SMART+ tüüpi raadioseaded vastab direktiivile 2014/53/EL. ELi vastavusdeklaratsiooni teksti tekst on kätesaadav järgmisel veebiaadressil: smartplus.ledvance.com/declaration-of-conformity. Traadita raadio, mida kasutatakse WIFI-lampides/valgustites/ komponentides 2412-2472 MHz, maks. RF väljundvõimsus 20 dBm. Traadita raadio, mida kasutatakse Bluetooth-lampides / valgustites / komponentides 2402-2480 MHz, maks. RF väljundvõimsus 16 dBm

Ⓔ „LEDVANCE“ pareiškia, kad radijo įrangos tipo „OSRAM SMART+“ prietaisas atitinka direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas pateiktas šiuo adresu: smartplus.ledvance.com/declaration-of-conformity. Belaidis radijas, naudojamas WIFI lempos/sviestuvuose/komponentuose 2412-2472 MHz, maks. RF išėjimo galia 20 dBm. Belaidis radijas, naudojamas Bluetooth lempos / sviestuvuose / komponentuose 2402 - 2480 MHz, maks. RF išėjimo galia 16 dBm

Ⓕ Ar šio LEDVANCE pazino, ka radio aprikojums OSRAM SMART+ atbilst Direktivai 2014/53/ EU. ES atbilstības deklarācijas pilns teksts pieejams šajā tīrīsaistes adresē: smartplus.ledvance.com/declaration-of-conformity. Bezvadu radio, kas izmantots WIFI lampās/gaismekļos/sastāvdaļās ar 2412-2472 MHz, maks. RF izvades jauda 20 dBm. Bezvadu radio, kas izmantots Bluetooth lampās/gaismekļos/sastāvdaļās ar 2402-2480 MHz, maks. RF izvades jauda 16 dBm

Ⓖ Omvim kompanija LEDVANCE izjavljuje da je radio oprema tipa uređaja OSRAM SMART+ u saglasnosti sa direktivom 2014/53/EU. Celokupan tekst EU izjave o usaglasenosti dostupan je na sledećoj internet adresi: smartplus.ledvance.com/declaration-of-conformity. Bežični radio uređaj koji se koristi u sijalicama/svetiljkama/komponentama sa WIFI funkcijom, frekvencija je 2412-2472 MHz, a maks. RF izlazna snaga 20 dBm. Bežični radio uređaj koji se koristi u sijalicama/svetiljkama/komponentama sa Bluetooth funkcijom, frekvencija je 2402-2480 MHz, a maks. RF izlazna snaga 16 dBm

Ⓖ Цим документом компания LEDVANCE підтверджує, що радіоприймач типу OSRAM SMART+ Девісе відповідає вимогам Директиви 2014/53/ЄС для радіоспівіднання. Повний текст Декларації відповідності ЄС можна знайти за адресою: smartplus.ledvance.com/declaration-of-conformity. Який тип бездротового радіоприймача використовується в лампах WIFI/ світильниках/компонентах із частотою 2412-2472 МГц і вихідною радіо- частотною потужністю 20 дБм. Який тип бездротового радіоприймача використовується в лампах Bluetooth/світильниках/компонентах із частотою 2402-2480 МГц і вихідною радіо- частотною потужністю 16 дБм.

Ⓖ LEDVANCE kompanijasy radioukyrlyгы türkeri OSRAM SMART+ kyrlygysy 2014/53/ EU direktivasyna saýkess ekenin malimleýdi. EU saýkestik turaly malimdemesiniň tolyk matnini myňa internet mekenjaýnda koljetimdi: smartplus.ledvance.com/declaration-of-conformity. Jililiri 2412-2472 MГц және макс. шығыс жилілі 20 дБм болатын WIFI шамдарда / шамдалдарда / компоненттерде қолданылатын сымсыз радио. Bluetooth шамдарында/шамдалдарында/компоненттерде пайдаланылатын сымсыз радио, 2402-2480 МГц, макс. РК шығыс қуаты: 16 дБм



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