


 **empenoso** / **diy-sound-alerts** Public


gb Old speakers + Raspberry Pi  / ru Старые колонки + выход аналогового звука на Малине Pi


 MIT license














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 empenoso Update README.md	4d280db · 6 years ago	
 00100dPORTRAIT_00...	Foto	6 years ago
 ESPHome.png	screenshot	6 years ago
 Home Assistant.png	screenshot	6 years ago
 IMG_20191110_16151...	Foto	6 years ago
 LICENSE	Initial commit	6 years ago
 README.md	Update README.md	6 years ago
 README.ru.md	Описание	6 years ago
 automations.yaml	Automation rule for Home A...	6 years ago
 ced7f955cfb440b12c4...	sound	6 years ago
 configuration.yaml	Configuration TTS - Home A...	6 years ago
 tda7492_speakers.yaml	ESPHome firmware	6 years ago

 **README**  MIT license 

Sound alerts on the Raspberry Pi

license MIT

labor hours 2 hours

Together with or without Home Assistant.

Read this in other languages: [English](#), [Русский язык](#).

After I literally found the old speakers, it was decided that I make voice alerts for my smart home. In order to power the speakers, an amplifier is needed - I chose the [2 x 50W TDA7492 Class D High-Power Digital Amplifier Board](#). I am not a music lover, and for the operation of my speakers, this amplifier is enough.

At first, I used a separate Raspberry Pi 1 with [Volumio](#). Everything worked fine, but after updating Volumio in the summer of 2019, something broke and I had to use another image - [Pi MusicBox](#). Such a bunch can be used without home automation.

Then, I decided to use it on the same Raspberry Pi on which Hass.io is installed. For a long time, I could not find a suitable addition, but eventually, the [Mopidy addon for hass.io](#) for hass.io was found.

Since the speakers are used only for voice alerts, it was found that they hiss in standby mode - perhaps the wire is of poor quality, the amplifier is not the best, or, more likely, because it does NOT use [DAC+ ADC](#). In any case, the solution was the [Sonoff SV](#) relay, which supplies voltage to the amplifier before the announcement, and de-energizes the amplifier after.

ESPHome firmware for relay

I use the [ESPHome Hass.io Add-On](#) to compile yaml. I chose this firmware specifically because of the elementary integration in the Home Assistant:

[tda7492_speakers.yaml](#)

tda7492_speakers 

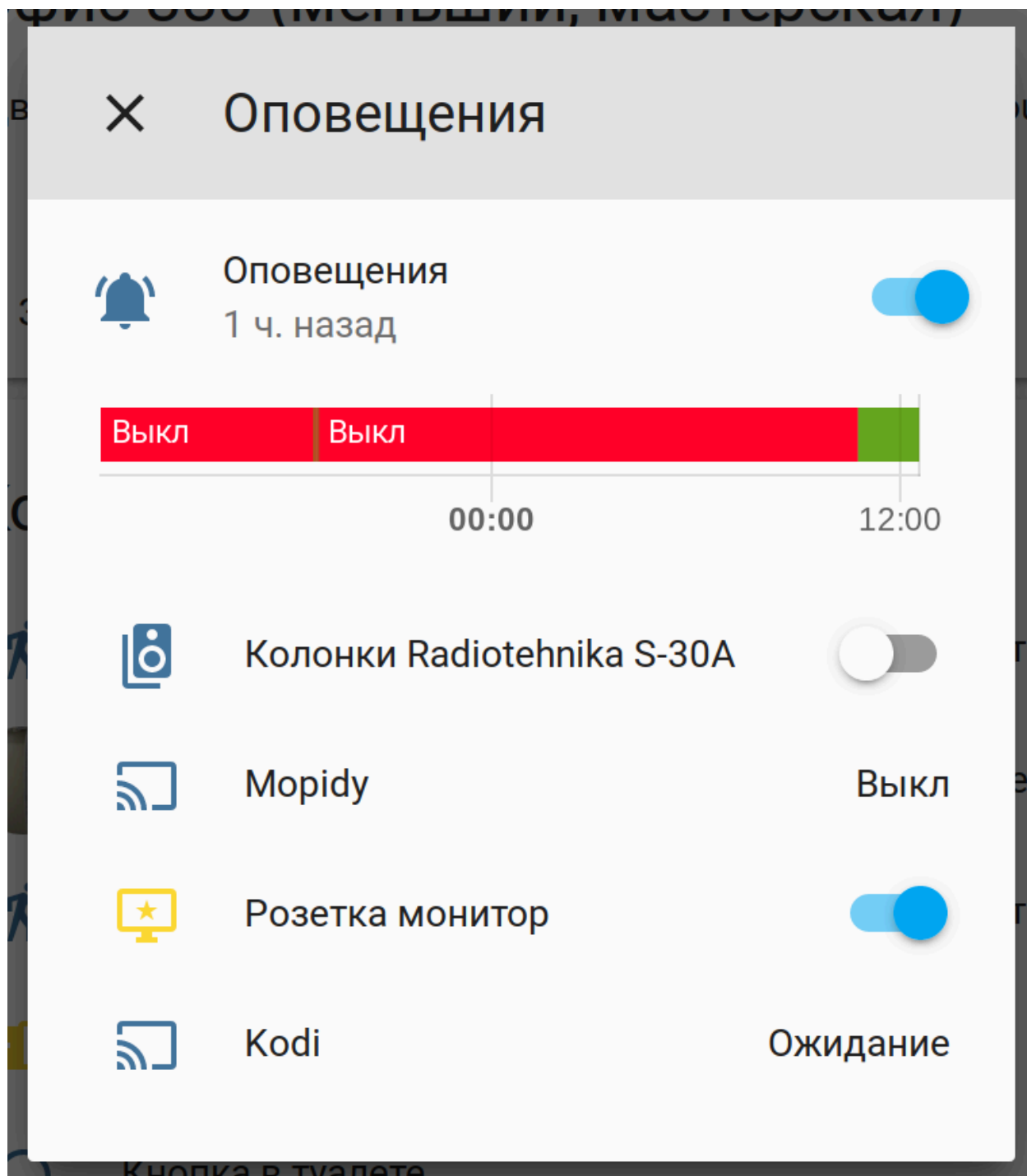
● Online. Full path: /config/esphome/tda7492_speakers.yaml

UPLOAD EDIT SHOW LOGS VALIDATE

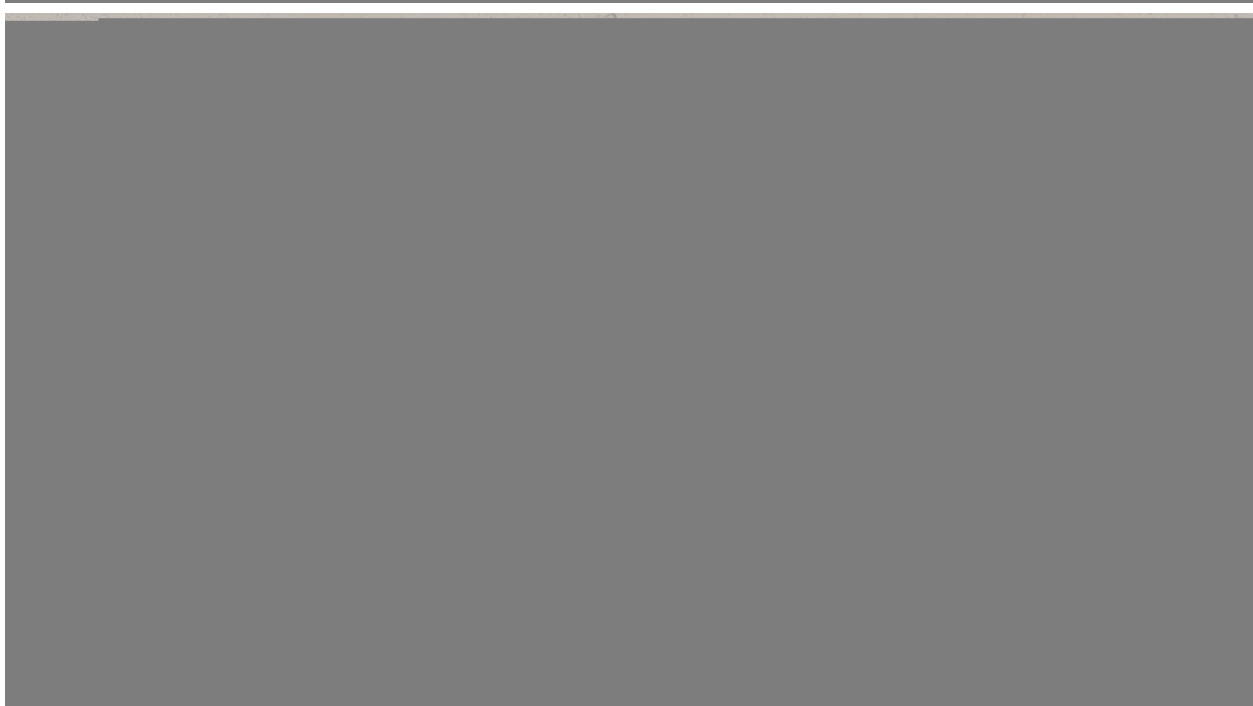
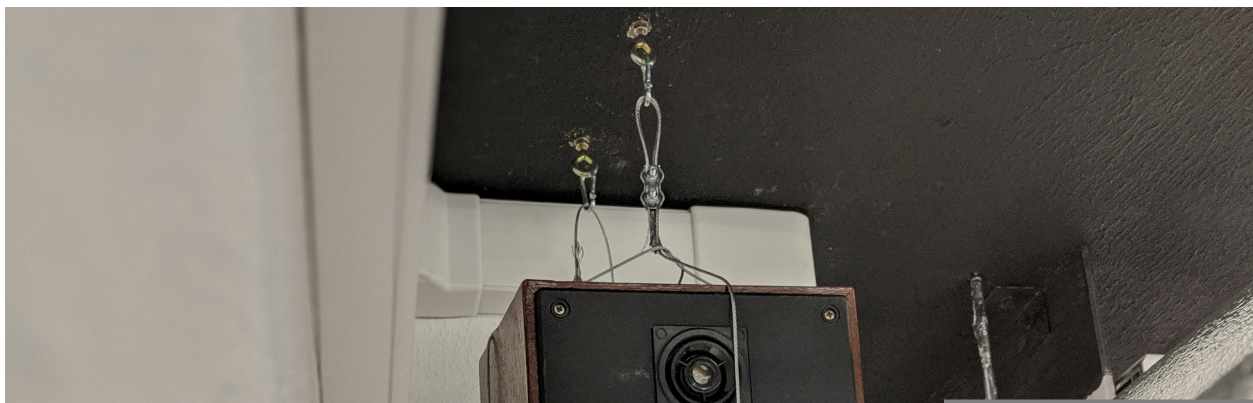
Voice alerts from Home Assistant

In [automations.yaml](#), there are various rules for voice alerts, and in [configuration.yaml](#) - settings for free Text to Speech (TTS). Sample sound (RU) in the file:

[ced7f955cfb440b12c419befd25ffa7fd7854989_ru_-_google_translate.mp3](#).



Photos



Releases

No releases published

Packages

No packages published