

## R140A Rainbow

**WEATHER-PROOF  
ACOUSTIC AND OPTICAL  
TELEPHONE AND DOORBELL  
CALLS REPEATER  
IP66**

### Description

- Telephone and/or doorbell or voltage-free contact calls repeater.
- Wall mount installation.
- Built in a sturdy cast alloy case, weatherproof IP 66. Stainless steel screws and fittings.
- High level acoustic signalling, up to 120dBA/1mt.
- 4 selectable melodies.
- 4 volume levels, fixed or incremental. When using incremental volume, the top level is reached on the third ring (suggested for installation in popular environment).
- "MUTE" function, to enable optical-only signalling.
- RGB LED efficient optical signalling, up to 2.130 lumen.
- Selectable colours: White, Red, Orange, Green, Blue, Fuchsia, Rainbow (sequentially uses each of the available colours).
- 4 brightness levels

### Functioning features

- Telephone call mode (PHONE CALL) and "doorbell/voltage-free contact" mode (EXT.INPUT) working at the same time.
- Different acoustic and optical signalling for each of the two working modes.
- The acoustic signalling "follows" the telephone call rhythm or the "doorbell/voltage-free contact" closure, and immediately ends on answer or on contact opening.
- The optical signalling is kept active for the whole duration of the telephone call or of the "doorbell/voltage-free contact" closure, and immediately ends on answer or on contact opening. In case of no answer, it lasts for 6 seconds after the end of the call.
- Built-in output relays (maximum power 30W direct current or 62,5VA alternate current) to drive external signalling devices, as beacons or horns; the relays is kept active for the whole duration of the telephone call or of the "doorbell/voltage-free contact" closure.
- "TEST" key to check the selected programming parameters.



- Easy and intuitive programming by means of 4 keys, guided by multicolour LED on the electronic board.
- The multicolour LED on the electronic board continuously show the status of the device and the programmed parameters for both the working modes (PHONE CALL and EXT.INPUT).
- "RESET" key to restore default configuration.

### Connections

- Telephone call: parallel connection to PSTN public line or PABX extension port. Support to ringing signals as per technical specifications ("Telephone ringing signals").
- "Doorbell/voltage-free contact": input signals from 3 to 60Vdc, from 3 to 24Vac or "voltage-free".



## TECHNICAL SPECIFICATIONS

### ACOUSTIC

- Level 1 acoustic pressure: 80dBA/1mt
- Level 2 acoustic pressure: 95dBA/1mt
- Level 3 acoustic pressure: 108dBA/1mt
- Level 4 acoustic pressure (MAX): 120dBA/1mt

### OPTICAL

- RGB LED lamp
- Luminous flux, White colour: 1760 ÷ 2130 lumen
- Luminous flux, Orange colour: 654 ÷ 775 lumen
- Luminous flux, Red colour: 630 ÷ 750 lumen
- Luminous flux, Green colour: 750 ÷ 880 lumen
- Luminous flux, Blue colour: 380 ÷ 500 lumen
- Luminous flux, Fuchsia colour: 885 ÷ 1091 lumen

### INPUT

- Telephone ringing signals: 20 ÷ 60 Hz @ 15 ÷ 80 Vac or 10 ÷ 60 Hz @ 20 ÷ 80 Vac
- Telephone line consumption: < 100µA @ 50Vdc
- Doorbell input voltage: 3 ÷ 60 Vdc (not polarized) or 3 ÷ 24 Vac
- Voltage-free resistance: ≤ 100kΩ

### OUTPUT

- Insulated output relays: maximum commutation power 30W, direct current, or 62,5VA, alternate current.

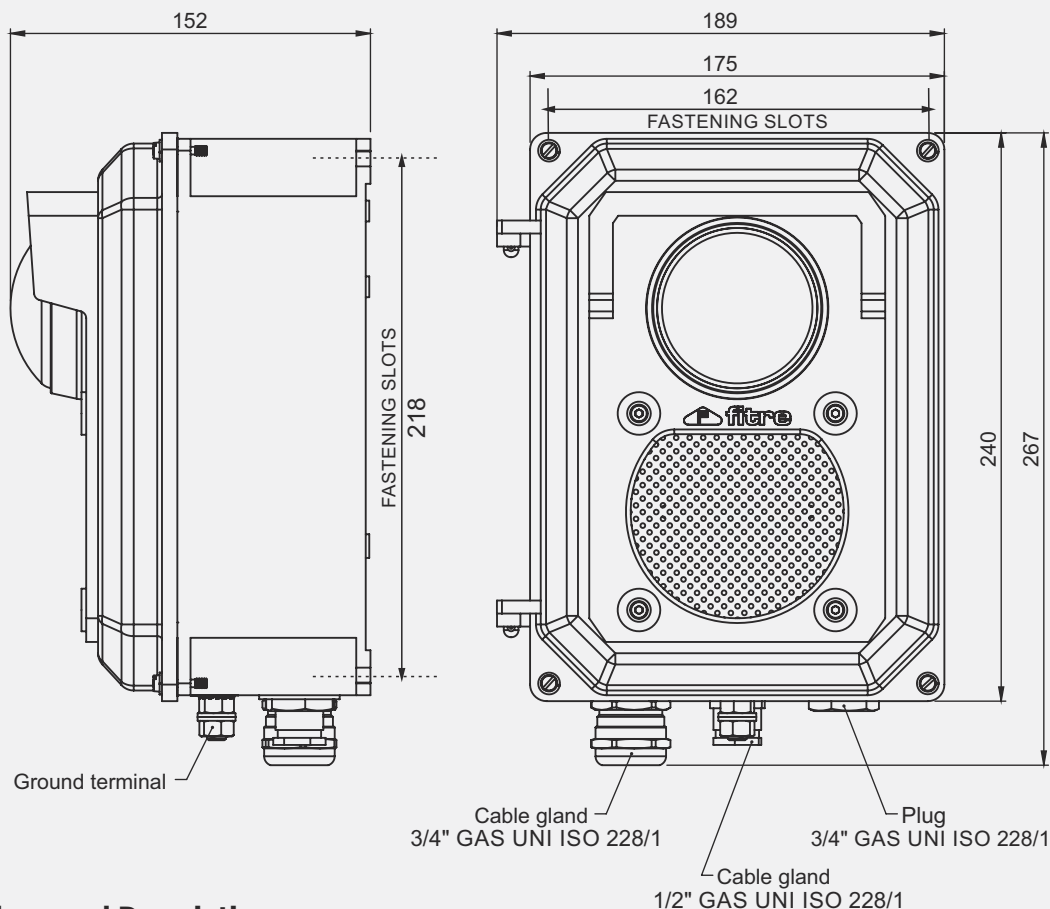
### PHYSICAL

- Cast light alloy
- Weatherproof IP66 (IEC 144)
- 3/4" and 1/2" GAS UNI-ISO 228 cable glands
- 3/4" GAS UNI-ISO 228 plug
- Working temperature range: -40 ÷ 80 °C
- Max relative humidity: 95% not condensing
- Dimensions: see below image
- Weight: ~ 4.5 kg
- Wall mount

### POWER AND CONSUMPTION

- Supply: see table below
- Idle consumption: less than 1W
- Maximum consumption: 30W

## DIMENSIONS



### Part numbers and Description

|                               | Description  | P/N            |
|-------------------------------|--|----------------|
| <b>R140A Rainbow</b>          | Weatherproof acoustic and optical telephone and doorbell calls repeater - 230Vac   | <b>7332400</b> |
| <b>R140A Rainbow 115Vac</b>   | Weatherproof acoustic and optical telephone and doorbell calls repeater - 115Vac   | <b>7332410</b> |
| <b>R140A Rainbow 24-60Vdc</b> | Weatherproof acoustic and optical telephone and doorbell calls repeater - 24-60Vdc | <b>7332411</b> |

