



Doorbells and chimes SUNDI

ZAMEL have been producing bells and chimes for 30 years and it does not come as a surprise that SUNDI products signalise the arrival of guests in the majority of Polish homes. ZAMEL's bells and chimes include a wide range of models, shapes, and colours together with a great selection of sounds which offer optimal solutions for those who love modern design as well as for those who prefer a classic style. The high quality and variety of installation methods guarantee universal application, comfort, and safety which are of crucial importance to all users. SUNDI group includes dozens of different products, e.g. wired and wireless

chimes or electronic recording devices. The wireless chimes are very popular and particularly interesting as they can form a bell installation without any cables. The devices are perfect for doorbells, internal calling devices, or personal alarms. They can be successfully used in houses, flats, hotels, restaurants, companies, or used as nurse calling equipment for persons who require care. The greatest advantages of ZAMEL's wireless chimes include a wide selection of melodies, volume control, visual signalisation, and long range.

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Two-tone chime BIM-BAM

GNS-921 (230 V AC), GNT-921 (8 V AC)

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 85 dB (GNS-921), app. 78 dB (GNT-921)



white



beige



grey



silver

Technical data

Power consumption: 11 VA (GNS-921), 5 VA (GNT-921)
 Weight [g]: 260 (GNS-921) and 280 (GNT-921)
 Dimensions [mm]: 136 x 106 x 42
 Colour: white, beige, grey
 Bulk package [pcs]: 20

Two-tone chime BIM-BAM with pull-switch

GNS-921/N (230 V AC), GNT-921/N (8 V AC)

Description

- electromechanical chime,
- due to the built-in pull-switch ideal for babies' parents or people who do not want to be disturbed,
- plastic casing,
- sound: two tones – BIM-BAM ,
- volume level: app. 85 dB (GNS-921/N), app. 78 dB (GNT-921/N).



white



beige



grey

Technical data

Power consumption: 11 VA (GNS-921/N), 5 VA (GNT-921/N)
 Weight [g]: 260 (GNS-921/N), 280 (GNT-921/N)
 Dimensions [mm]: 136 x 106 x 42
 Colour: white, beige, grey
 Bulk package [pcs]: 20

Two-tone chime TURBO

GNS-931 (230 V AC), GNT-931 (8 V AC)

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM repeated continuously as long as bell-push is pressed,
- volume level: app. 85 dB (GNS-931), app. 80 dB (GNT-931).



white



beige

Technical data

Power consumption: 11 VA (GNS-931), 5 VA (GNT-931)
 Weight [g]: 290 (GNS-931), 310 (GNT-931)
 Dimensions [mm]: 136 x 106 x 42
 Colour: white, beige
 Bulk package [pcs]: 20

Two-tone chime DUO

GNS-943 (230 V AC), GNT-943 (8 V AC)

Description

- combination of two-tone doorbell and two-tone chime BIM-BAM in one casing,
- makes it possible to recognize the places of call by the sound (e.g. coming from the entrance door or a garden gate),
- plastic casing,
- other data: two-tone doorbell and two-tone chime BIM-BAM,
- volume level: 72 dB / 82 dB (GNS-943), app. 68 dB / 78 dB (GNT-943).

Technical data

Power consumption: 11 VA (GNS-943), 5 VA (GNT-943)
 Weight [g]: 280 (GNS-943), 290 (GNT-943)
 Dimensions [mm]: 136 x 106 x 42
 Colour: white, beige
 Bulk package [pcs]: 20



beige



white

Two-tone chime LARGO

GNS-208 (230 V AC), GNT-208 (8 V AC), GNW-208 (230 V AC with a built-in transformer)

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM long ringing,
- volume level: app. 85 dB (GNS-208, GNW-208), app. 75 dB (GNT-208).

Technical data

Power consumption: 11 VA (GNS-208, GNW-208), 5 VA (GNT-208)
 Weight [g]: 490 (GNS-208), 540 (GNT-208), 700 (GNW-208)
 Dimensions [mm]: 200 x 145 x 55
 Colour: white, beige, silver metallic,
 Bulk package [pcs]: 5



silver metallic



beige



white

Two-tone chime FORTE

GNS-223 (230 V AC), GNT-223 (8 V AC), GNW-223 (230 V AC with a built-in transformer)

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM, long ringing,
- volume level: app. 85 dB (GNS-223, GNW-223), app. 78 dB (GNT-223).

Technical data

Power consumption: 11 VA (GNS-223, GNW-223), 5 VA (GNT-223)
 Weight [g]: 390 (GNS-223), 410 (GNT-223), 570 (GNW-223)
 Dimensions [mm]: 205 x 126 x 42
 Colour: white, beige
 Bulk package [pcs]: 8



beige



white

Two-tone chime VIVO

GNS-224 (230 V AC), GNT-224 (8 V AC)



Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM repeated continuously as long as bell-push is pressed,
- volume level: app. 85 dB (GNS-224), 80 dB (GNT-224).

Technical data

Power consumption: 11 VA (GNS-224), 5 VA (GNT-224)
 Weight [g]: 350 (GNS-224), 360 (GNT-224)
 Dimensions [mm]: 166 x 105 x 44
 Colour: white
 Bulk package [pcs]: 10

Two-tone chime GLASSO

GNS-248 (230 V AC), GNT-248 (8 V AC), GNW-248 (230 V AC with a built-in transformer)



white



silver

Description

- electromechanical chime,
- plastic casing, covered with a sheet of chilled glass (8 mm thick) and decorative silver or white plate,
- modern, elegant design,
- sound: two tones BIM-BAM, long ringing,
- volume level: app. 85 dB (GNS-248), app. 78 dB (GNT-248), app. 77 dB (GNW-248).

Technical data

Power consumption: 11 VA (GNS-248, GNW-248), 5 VA (GNT-248)
 Weight [g]: 900 (GNS-248), 930 (GNT-248), 1050 (GNW-248)
 Dimensions [mm]: 202 x 131 x 48
 Colour: glass + silver; glass + white
 Bulk package [pcs]: 5

Two-tone chime VETRO

GNS-247 (230 V AC), GNT-247 (8 V AC)



Description

- electromechanical chime,
- plastic casing, covered with a sheet of chilled glass (8 mm thick) and decorative silver or white plate,
- modern, elegant design,
- sound: two tones BIM-BAM, repeated continuously as long as bell-push is pressed
- volume level: app. 85 dB (GNS-247), app. 80 dB (GNT-247).

Technical data

Power consumption: 11 VA (GNS-247), 5 VA (GNT-247)
 Weight [g]: 900 (GNS-247), 930 (GNT-247)
 Dimensions [mm]: 202 x 131 x 48
 Colour: glass + white
 Bulk package [pcs]: 5

Two-tone chime Type: 77

Type: 77 (230 V AC), Type: 77 (8÷12 V AC), Type: 77 (220/127 V AC)

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 83 dB (230 V), app. 80 dB (8 V) and app. 83 dB (220/127 V),
- power consumption: 16 VA (230 V), 7 VA (8 V) and 19/15 VA (220/127 V),
- available in power supply versions: 230 V AC, 8÷12 V AC, dual triggering: 220/127 V AC.

Technical data

Weight [g]: 235 (230 V), 250 (8 V), 240 (220/127 V)
 Dimensions [mm]: 113 x 79 x 40
 Colours: white, gray
 Bulk package [pcs.]: 20



Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 85

Type: 85 (230 V AC), Type: 85 (8÷12 V AC), Type: 85 (220/127 V AC),
 Type: 85 (9 V DC) – Battery 6LR61

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 90 dB (230 V), and app. 85 dB (8 V),
- power consumption: 26 VA (230 V), 26 VA (230 V), 11 VA (8 V), 37/21 VA (220/127 V),
- available in power supply versions: 230 V AC, 8÷12 V AC, dual triggering: 220/127 V AC, 9 V DC – battery type: 6LR61.

Technical data

Weight [g]: 220 (230 V), 235 (8 V), 213 (220/127 V)
 Dimensions [mm]: 113 x 113 x 42
 Colours: white, gray
 Bulk package [pcs.]: 18



Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 880

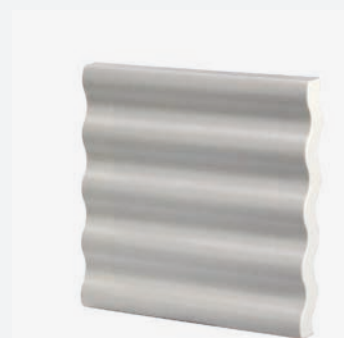
Type: 880 (230 V AC), Type: 880 (8÷12 V AC), Type: 880 (220/127 V AC),
 Type: 880 (9 V DC) – Battery 6LR61

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 83 dB (230 V), app. 80 dB (8 V) and 83 dB (220/127 V),
- power consumption: 35 VA (230 V), 16 VA (8 V) and 36/21 VA (220/127 V),
- available in power supply versions: 230 V AC, 8÷12 V AC, dual triggering: 220/127 V AC, 9 V DC – battery type: 6LR61

Technical data

Weight [g]: 270 (230 V), 285 (8 V) and 262 (220/127 V)
 Dimensions [mm]: 150 x 150 x 45
 Colours: white
 Bulk package [pcs.]: 18



Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 500

Type: 500 (230 V AC), Type: 500 (8÷12 V AC), Type: 500 (220/127 V AC), Type: 500 (9 V DC) – Battery 6LR61



Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 80 dB (230 V), app. 80 dB (8 V) and app. 83 dB (220/127 V),
- power consumption: 35 VA (230 V), 16 VA (8 V) und 36/21 VA (220/127 V),
- available in power supply versions: 230 V AC, 8÷12 V AC, dual triggering: 220/127 V AC, 9 V DC – battery type: 6LR61.

Technical Data

Weight [g]: 338 (230 V), 352 (8 V) and 335 (220/127 V)
 Dimensions [mm]: 150 x 150 x 45
 Colours: white
 Bulk package [pcs.]: 10

Bittorf *BIM*
ELEKTROTECHNIK

Two-tone chime Type: 2201

Type: 2201 (230 V AC), Type: 2201 (8÷12 V AC), Type: 2201 (220/127 V AC)



white



silver

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 80 dB (230 V), app. 75 dB (8 V) and app. 80 dB (220/127 V),
- power consumption: 14 VA (230 V), 6 VA (8 V) and 17/13 VA (220/127 V),
- available in power supply versions: 230 V AC, 8÷12 V AC, dual triggering: 220/127 V AC.

Technical Data

Weight [g]: 225 (230 V), 240 (8 V), 230 (220/127 V)
 Dimensions [mm]: 119 x 82 x 36
 Colours: white, silver
 Bulk package [pcs.]: 22

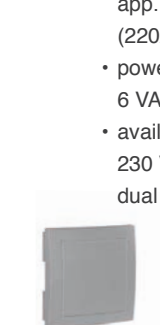
Bittorf *BIM*
ELEKTROTECHNIK

Two-tone chime Type: 2250

Type: 2250 (230 V AC), Type: 2250 (8÷12 V AC), Type: 2250 (220/127 V AC)



white



silver

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 80 dB (230 V), app. 75 dB (8 V) and app. 80 dB (220/127 V),
- power consumption: 14 VA (230 V), 6 VA (8 V) and 17/13 VA (220/127 V),
- available in power supply versions: 230 V AC, 8÷12 V AC, dual triggering: 220/127 V AC.

Technical Data

Weight [g]: 265 (230 V), 280 (8 V), 260 (220/127 V)
 Dimensions [mm]: 132 x 132 x 43
 Colours: white, silver
 Bulk package [pcs.]: 18

Bittorf *BIM*
ELEKTROTECHNIK

Two-tone chime Type: 660

Type: 660 (230 V AC), Type: 660 (8÷12 V AC), Type: 660 (220/127 V AC), Type: 660 (9 V DC) – Battery 6LR61

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 82 dB (230 V), app. 79 dB (8 V) and 82 dB (220/127 V)
- power consumption: 27 VA (230 V), 11 VA (8 V) and 37/21 VA (220/127 V)
- available in power supply versions: 230 V AC, 8÷12 V AC, dual triggering: 220/127 V AC, 9 V DC – battery type: 6LR61.

Technical Data

Weight [g]: 374 (230 V), 385 (8 V) and 368 (220/127 V)
 Dimensions [mm]: 170 x 170 x 52
 Colours: white/anthracite
 Bulk package [pcs.]: 10



Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 103

Type: 103 (230 V AC), Type: 103Tr (230 V AC, with integrated transformer),
 Type: 103 (8÷12 V AC), Type: 103 (9 V DC) – battery 6LR61

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 85 dB (230 V), app. 82 dB (8 V, 9 V),
- power consumption: 25 VA (230 V), 11 VA (8 V),
- available in power supply versions: 230 V AC, 230 V AC with integrated transformer, 8÷12 V AC, 9 V DC – battery type: 6LR61

Technical Data

Weight [g]: 354 (230 V), 369 (8 V, 9 V), 581 (with integrated transformer)
 Dimensions [mm]: 168 x 111 x 47
 Colours: white/silver metallic, white/blue metallic
 Bulk package [pcs.]: 10



white/blue metallic

white/silver metallic

Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 105

Type: 105 (230 V AC), Type: 105Tr (230 V AC, with integrated transformer),
 Type: 105 (8÷12 V AC), Typ: 105 (9 V DC) – battery 6LR61

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 85 dB (230 V), app. 82 dB (8 V, 9 V),
- power consumption: 25 VA (230 V), 11 VA (8 V),
- available in power supply versions: 230 V AC, 230 V AC with integrated transformer, 8÷12 V AC, 9 V DC – battery type: 6LR61.

Technical Data

Weight [g]: 400 (230 V), 415 (8 V, 9 V), 627 (with integrated transformer)
 Dimensions [mm]: 191 x 154 x 45
 Colour: white/gold
 Bulk package [pcs.]: 10



Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 106

Type: 106 (230 V AC), Type: 106Tr (230 V AC, (with integrated transformer), Type: 106 (8÷12 V AC)

Type: 106 (220/127 V AC), Type: 106 (9 V DC) – Battery 6LR61



Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 85 dB (230 V), app. 82 dB (8 V) and app. 85 dB (220/127 V),
- power consumption: 25 VA (230 V), 11 VA (8 V), 38/22 VA (220/127 V),
- available in power supply versions: 230 V AC, 230 V AC with integrated transformer, 8÷12 V AC, 9 V DC – battery type: 6LR61, dual triggering: 220/127 V AC.

Technical Data

Weight [g]: 354 (230 V), 369 (8 V), 581 (with integrated transformer) and 345 (220/127 V)
 Dimensions [mm]: 168 x 111 x 47
 Colours: white/silver metallic
 Bulk package [pcs.]: 10

Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 405

Type: 405 (230 V AC), Type: 405Tr (230 V AC, (with integrated transformer), Type: 405 (8÷12 V AC)

Type: 405 (220/127 V AC), Type: 405 (9 V DC) – Battery 6LR61



Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 85 dB (230 V), app. 82 dB (8 V) and app. 85 dB (220/127 V),
- power consumption: 23 VA (230 V), 10 VA (8 V), 35/21 VA (220/127 V),
- available in power supply versions: 230 V AC, 230 V AC with integrated transformer, 8÷12 V AC, dual triggering: 220/127 V AC, 9 V DC – battery type: 6LR61.

Technical Data

Weight [g]: 535 (230 V), 510 (8 V), 750 (with integrated transformer), 528 (220/127 V)
 Dimensions [mm]: 235 x 160 x 47
 Colour: white
 Bulk package [pcs.]: 10

Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 411

Type: 411 (230 V AC), Type: 411Tr (230 V AC, (with integrated transformer), Type: 411 (8÷12 V AC)

Type: 411 (220/127 V AC), Type: 411 (9 V DC) – Battery 6LR61



Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 85 dB (230 V), app. 82 dB (8 V) and app. 85 dB (220/127 V),
- power consumption: 23 VA (230 V), 10 VA (8 V), 35/21 VA (220/127 V),
- available in power supply versions: 230 V AC, 230 V AC with integrated transformer, 8÷12 V AC, dual triggering: 220/127 V AC, 9 V DC – battery type: 6LR61.

Technical Data

Weight [g]: 505 (230 V), 490 (8 V), 735 (with integrated transformer) and 495 (220/127 V)
 Dimensions [mm]: 220 x 160 x 47
 Colours: anthracite /silver metallic
 Bulk package [pcs.]: 10

Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 412

Type: 412 (230 V AC), Type: 412Tr (230 V AC, with integrated transformer), Type: 412 (8÷12 V AC)
Type: 412 (220/127 V AC), Type: 412 (9 V DC) – Battery 6LR61

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 85 dB (230 V), app. 82 dB (8 V) and app.85 dB (220/127 V),
- power consumption: 23 VA (230 V), 10 VA (8 V), 35/21 VA (220/127 V),
- available in power supply versions: 230 V AC, 230 V AC with integrated transformer, 8÷12 V AC, dual triggering: 220/127 V AC, 9 V DC – battery type: 6LR61.

Technical Data

Weight [g]: 505 (230 V), 490 (8 V), 735 (with integrated transformer) and 495 (220/127 V)
Dimensions [mm]: 220 x 160 x 47
Colours: anthracite/silver metallic
Bulk package [pcs.]: 10



Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 707

Type: 707 (8÷12 V AC) or battery-powered– 4 batteries type R20, Type: 707 (230 V AC)

Technical Data

Weight [g]: 650 (8÷12 V AC), 790 (230 V AC)
Dimensions [mm]: 210 x 210 x 55
Colours: gray/yellow
Bulk package [pcs.]: 10

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 86 dB (230 V AC) and app. 83 dB (8÷12 V)
- available in power supply versions: 8÷12 V AC or battery-powered 4 x 1,5 V DC (4 x battery type R20), 230 V AC.



gray/yellow

Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 708

Type: 708 (8÷12 V AC) or battery-powered – 4 batteries type R20, Type: 708 (230 V AC)

Technical Data

Weight [g]: 650 (8÷12 V AC), 790 (230 V AC)
Dimensions [mm]: 210 x 210 x 55
Colours: gray/silver metallic
Bulk package [pcs.]: 10

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 86 dB (230 V AC) and app. 83 dB (8÷12 V),
- available in power supply versions: 8÷12 V AC or battery-powered 4 x 1,5 V DC (4 x battery type R20), 230 V AC.



Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 709

Type: 709 (8÷12 V AC) or battery-powered – 4 batteries type R20, Type: 709 (230 V AC)



Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 86 dB (230 V AC) and app. 83 dB (8÷12 V),
- available in power supply versions: 8÷12 V AC or battery-powered 4 x 1,5 V DC (4 x battery type R20), 230 V AC.

Technical Data

Weight [g]: 650 (8÷12 V AC), 790 (230 V AC)
 Dimensions [mm]: 210 x 210 x 55
 Colours: gray/chrome
 Bulk package [pcs.]:10

Bittorf *BIM*
ELEKTROTECHNIK

Two-tone chime Type: 850

Type: 850 (230 V AC), Type: 850 (8÷12 V AC), Type: 850 (220/127 V AC)



Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 90 dB (230 V) and app. 85 dB (8 V),
- power consumption: 26 VA (230 V), 11 VA (8 V), 37/21 VA (220/127 V),
- available in power supply versions: 230 V AC, 8÷12 V AC, dual triggering: 220/127 V AC, 9 V DC – battery type: 6LR61.

Technical Data

Weight [g]: 220 (230 V), 235 (8 V), 213 (220/127 V)
 Dimensions [mm]: 113 x 113 x 43
 Colour: white
 Bulk package [pcs.]: 18

Bittorf *BIM*
ELEKTROTECHNIK

Two-tone chime Type: 88

Type: 88 (230 V AC), Type: 88 (8÷12 V AC), Type: 88 (220/127 V AC), Type: 88 (9 V DC) – Battery 6LR61



Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app.83 dB (230 V), app. 80 dB (8 V) and app. 83 dB (220/127 V),
- power consumption: 35 VA (230 V), 16 VA (8 V) and 36/21 VA (220/127 V),
- available in power supply versions: 230 V AC, 8÷12 V AC, dual triggering: 220/127 V AC, 9 V DC – battery type: 6LR61.

Technical Data

Dimensions [mm]: 129 x 113 x 45
 Weight [g]: 280 (230 V), 275 (8 V), 276 (220/127 V)
 Colours:white/silver
 Bulk package [pcs.]: 10

Bittorf *BIM*
ELEKTROTECHNIK

Two-tone chime Type: 95

Type: 95 (230 V AC), Type: 95Tr (230 V AC, with integrated transformer), Type: 95 (8÷12 V AC)
Type: 95 (220/127 V AC), Type: 95 (9 V DC) – Battery 6LR61

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 85 dB (230 V), app. 82 dB (8 V) and app. 85 dB (220/127 V),
- power consumption: 25 VA (230 V), 11 VA (8 V) and 38/22 VA (220/127 V),
- available in power supply versions: 230 V AC, 8÷12 V AC, dual triggering: 220/127 V AC, 9 V DC – battery type: 6LR61.

Technical Data

Weight [g]: 354 (230 V), 369 (8 V), 581 (with integrated transformer) and 345 (220/127 V)
Dimensions [mm]: 166 x 112 x 45
Colours: white/silver metallic, cream-coloured/gold
Bulk package [pcs.]: 10



cream-coloured/gold

white/silver metallic

Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 99

Type: 99 (230 V AC), Type: 99 (230 V AC, with integrated transformer), Type: 99 (8÷12 V AC)
Type: 99 (220/127 V AC), Type: 99 (9 V DC) – Battery 6LR61

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 85 dB (230 V), app. 82 dB (8 V) and app. 85 dB (220/127 V),
- power consumption: 25 VA (230 V), 11 VA (8 V) and 38/22 VA (220/127 V),
- available in power supply versions: 230 V AC, 8÷12 V AC, dual triggering: 220/127 V AC, 9 V DC – battery type: 6LR61.

Technical Data

Weight [g]: 354 (230 V), 369 (8 V), 581 (with integrated transformer) and 345 (220/127 V)
Dimensions [mm]: 166 x 112 x 45
Colours: white/silver
Bulk package [pcs.]: 10



Bittorf **BIM**
ELEKTROTECHNIK

Two-tone chime Type: 300

Type: 300 (230 V AC), Type: 300 (8÷12 V AC), Type: 300 (220/127 V AC),
Type: 300 (9 V DC) – Battery 6LR61

Description

- electromechanical chime,
- plastic casing,
- sound: two tones – BIM-BAM,
- volume level: app. 83 dB (230 V), app. 80 dB (8 V) and app. 83 dB (220/127 V),
- power consumption: 35 VA (230 V), 16 VA (8 V) and 36/21 VA (220/127 V)
- available in power supply versions 230 V AC, 8÷12 V AC, dual triggering: 220/127 V AC, 9 V DC – battery type: 6LR61.

Technical Data

Weight [g]: 338 (230 V), 352 (8 V) and 335 (220/127 V)
Dimensions [mm]: 160 x 160 x 45
Colours: white/gold
Bulk package [pcs.]: 10



Bittorf **BIM**
ELEKTROTECHNIK

ONE-TONE doorbell

DNS-902/N (230 V AC), DNT-902/N (8 V AC)

Description

- electronic bell,
- plastic casing,
- fluent volume adjustment,
- sound: one pulsating tone,
- volume level: app. 91 dB (DNS-902/N), app. 85 dB (DNT-902/N).



ecru



green-metallic

Technical data

Power consumption: 0,9 VA (DNS-902/N), 0,025 VA (DNT-902/N)

Weight [g]: 170 (DNS-902/N) and 185 (DNT-902/N)

Dimensions [mm]: 160 x 110 x 37

Colour: ecru, green metallic

Bulk package [pcs]: 15

TWO-TONE doorbell

DNS-911/N (230 V AC), DNT-911/N (8 V AC)

Description

- electronic bell,
- plastic casing,
- fluent volume adjustment,
- sound: two tones sounding alternatively,
- volume level: app. 84 dB (DNS-911/N), app. 80 dB (DNT-911/N).



white



beige



silver

Technical data

Power consumption: 0,9 VA (DNS-911/N), 0,15 VA (DNT-911/N)

Weight [g]: 160 (DNS-911/N), 180 (DNT-911/N)

Dimensions [mm]: 160 x 110 x 35

Colour: white, beige, silver (DNS-911/N)

Bulk package [pcs]: 15

TRES doorbell

DNS-972/N (230 V AC), DNT-972/N (8 V AC)

Description

- electronic three-tone bell,
- sound level adjustment,
- plastic casing,
- sound: three tones sounding alternatively,
- volume level: app. 90 dB.

**Technical data**

Power consumption: 0,9 VA (DNS-972/N), 0,75 VA (DNT-972/N)

Weight [g]: 140 (DNS-972/N), 160 (DNT-972/N)

Dimensions [mm]: 160 x 110 x 42

Colour: white

Bulk package [pcs]: 14

Description

- electronic chime,
- plastic casing,
- sound level adjustment,
- sound: two repeating tones DING-DONG,
- volume level: app. 81 dB.

Technical data

Power consumption: 10 VA
 Weight [g]: 180
 Dimensions [mm]: 160 x 98 x 35
 Colour: white
 Bulk package [pcs]: 18

DI-DO chime

GNS-976/N (230 V AC)

**Description**

- electronic chime,
- plastic casing,
- battery-operated playing system (3x battery 1,5 V, type AA),
- activated after applying the voltage of 8÷230 V AC to the doorbell terminals,
- sound level adjustment,
- sound: 8 tones (sound of the Westminster Abbey Bell),
- volume level: app. 76 dB.

Technical data

Power consumption: 1,15 VA
 Weight [g]: 240
 Dimensions [mm]: 140 x 100 x 45
 Colour: white
 Bulk package [pcs]: 20

WESTMINSTER chime

GNU-209 (3 batteries 1,5 V, type: AA)

**Description**

- electronic chime,
- plastic casing,
- battery-operated playing system (3x battery 1,5 V, type AA),
- activated after applying the voltage of 8÷230 V AC to the doorbell terminals,
- fluent volume adjustment,
- sound: three tones – BIM-BAM-BOM,
- volume level: app. 83 dB.

Technical data

Power consumption: 1,1 VA
 Weight [g]: 250
 Dimensions [mm]: 140 x 100 x 47
 Colour: ecru, silver
 Bulk package [pcs]: 18

THREE-TONE chime

GNU-913/N (3 batteries 1,5 V, type: AA)



silver

ecru

Description

- electronic bell,
- plastic casing,
- volume level adjustment,
- battery-operated playing system (2 x battery 1,5 V, type AA),
- activated after applying the voltage of 8÷230 V AC
- sound: any of 16 melodies successively,
- volume level: app. 84 dB.

Technical data

Power consumption: 1,1 VA
 Weight [g]: 250
 Dimensions [mm]: 140 x 100 x 47
 Colour: ecru, silver, green metallic
 Bulk package [pcs]: 18

16 MELODIES doorbell

DNU-912/N (2 batteries 1,5 V, type: AA)



green-metallic

silver

ecru

RECORDER doorbell

DNU-210 (4 batteries 1,5 V, type: AA)

**Description**

- the doorbell plays back a selected user recorded tune (e.g. the latest hit), sound (e.g. cow's sound, laughter) or voice message (e.g. 'Hello! Nice to see you. I'm opening in a minute'),
- ability to record new messages without time limit and recording quality degradation,
- maximum playback time: 60 seconds,
- sound recording using built-in microphone or AUDIO input,
- the doorbell has a factory-recorded message of approximately 13 sec.,
- battery-operated playing system (4x battery 1.5 V, type AA),
- activated after applying the voltage of 8÷230 V AC to the bell's terminals,
- fluent volume control,
- volume level: max. 80 dB.

Technical data

Power consumption: 1,15 VA
 Weight [g]: 290
 Dimensions [mm]: 140 x 100 x 47
 Colour: ecru
 Bulk package [pcs]: 18

Electronic doorbell Type: 900

Type: 900 (230 V AC), Type: 900 (8÷12 V AC)

**Description**

- electronic three-tone bell,
- volume adjustment,
- 2 loudspeakers (stereo-effect),
- power supply of the melody unit through 9-V-block type: 6LR61,
- available in the following triggering versions:
230 V AC, 8÷12 V AC
- volume level: app. 86 dB.

Technical data

Power consumption: 1 VA
 Weight [g]: 330
 Dimensions [mm]: 215 x 130 x 92
 Colour: white
 Bulk package [pcs.]: 10

Bittorf *BIM*
ELEKTROTECHNIK

Electronic doorbell Type: 950

Type: 950 (230 V AC), Type: 950 (220/127 V AC), Type: 950 (8÷12 V AC), Type: 950/N (8÷24 V AC)



white

Description

- electronic three-tone bell,
- volume and pitch adjustment,
- power supply of the melody unit through 9-V-block type: 6LR61,
- available in the following triggering versions: 30 V AC, 8÷12 V AC, 220/127 V AC, 8÷24 V AC,
- volume level: app. 80 dB.



blue



gray

Technical data

Power consumption: 1 VA
 Weight [g]: 150
 Dimensions [mm]: 125 x 95 x 35
 Colours: white, blue, gray
 Bulk package [pcs.]: 12

Bittorf *BIM*
ELEKTROTECHNIK

Electronic doorbell Type: 970

Type: 970 (230 V AC), Type: 970 (8÷12 V AC)



gray/black

Description

- electronic bell,
- volume and pitch adjustment,
- available in power supply versions: 230 V AC, 8÷12 V AC,
- volume level: app. 90 dB.



gray/yellow



gray/blue



gray/green

Technical data

Power consumption: 1,9 VA (230 V), 2,7 VA (8 V)
 Weight [g]: 160
 Dimensions [mm]: 140 x 77 x 55
 Colours: gray/black, gray/yellow, gray/blue, gray/green
 Bulk package [pcs.]: 12

Bittorf *BIM*
ELEKTROTECHNIK

Description

- electronic alarm siren,
- sound: continuous tone,
- surface mounting in the building,
- resonance chamber for amplifying the volume level,
- tone colour and volume control,
- voltage versions: 12 V, 24 V, 127 V, 230 V,
- volume level: app. 98 dB.

Technical data

Power consumption: 6,3 VA (12 V),
16,6 VA (24 V), 6,13 VA (127 V), 8 VA (230 V).
Weight [g]: 680
Dimensions [mm]: 180 x 87 x 93
Colours: black /red
Bulk package [pcs.]: 10

Bittorf **BiM**
ELEKTROTECHNIK

Alarm siren Type: 1400**WIRED CHIMES AND DOORBELLS - Electromechanical doorbells****Description**

- electromechanical bell,
- plastic casing,
- steel bowl, varnished (Ø 54 mm),
- volume level adjustment,
- volume level: app. 85 dB (DNS-001/N),
app. 78 dB (DNT-001/N).

Technical data

Power consumption: 15 VA (DNS-001/N),
6 VA (DNT-001/N)
Weight [g]: 142 (DNS-001/N),
160 (DNT-001/N)
Dimensions [mm]: 116 x 71 x 40
Colour: white
Bulk package [pcs]: 50

BOWL doorbell

DNS-001/N (230 V AC), DNT-001/N (8 V AC)

**Description**

- electromechanical bell,
- plastic casing,
- steel bowl, varnished or chromium-plated (Ø 76 mm),
- volume level: app. 90 dB (DNS-206),
app. 79 dB (DNT-206).

Technical data

Power consumption: 14 VA (DNS-206),
5 VA (DNT-206)
Bulk package [pcs]: 20
Weight [g]: 156 (DNS-206), 180 (DNT-206)
Dimensions [mm]: 140 x 105 x 60
Colour:
chromium-plated steel + white casing,
gold steel + brown casing,
silver steel + grey casing

TRADITIONAL doorbell

DNS-206 (230 V AC), DNT-206 (8 V AC)



beige

white

Description

- electromechanical bell,
- steel bowl, varnished or chromium-plated, enclosed in a plastic casing,
- volume level adjustment,
- volume level: app. 80 dB.

Technical data

Power consumption: 11 VA (DNS-002/N),
5 VA (DNT-002/N)
Weight [g]: 210 (DNS-002/N),
220 (DNT-002/N)
Dimensions [mm]: 160 x 98 x 43
Colour: white
Bulk package [pcs]: 16

COMPACT doorbell

DNS-002/N (230 V AC), DNT-002/N (8 V AC)



MULINO bell

DNS-222 (230 V AC), DNT-222 (8 V AC), DNB-222 (4 batteries 1,5 V, type: R14)



Description

- electromechanical bell,
- wooden mahogany colour of casing,
- brass spring mounted bowl,
- pleasant metallic sound coming from brass bowl,
- volume level: app. 80 dB.

Technical data

Weight [g]: 1400 (DNS-222),
1270 (DNT-222, DNB-222)
Dimensions [mm]: 320 x 110 x 50 (100)
Colour: mahogany
Bulk package [pcs]: 1

Possible connections of MULINO bell:

DNS-222, DNT-222

1. Standard connection (to the existing doorbell system) – Fig. 1,
2. Special four-wire connection (enables using low-voltage bell-pushes and brass doorbell pushes e.g. doorbell pushes type PDM-231, PDM-232, PDK-250/1, PDK-250/2, PDK-250/3 by ZAMEL) – Fig. 2.

DNB-222

1. Special two-wire connection – does not require power supply installation due to batteries (enables using low-voltage bell-pushes and brass doorbell pushes e.g. doorbell pushes type PDM-231, PDM-232, PDK-250/1, PDK-250/2, PDK-250/3 by ZAMEL) – Fig. 3.

Universal supply and control solution makes it possible to match the doorbell to various system configurations.

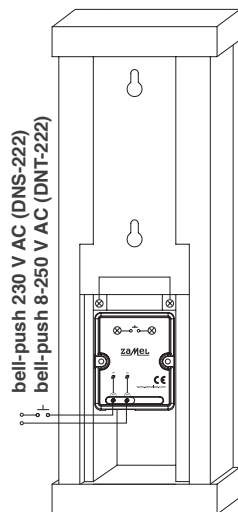


Fig. 1
Traditional doorbell
installation

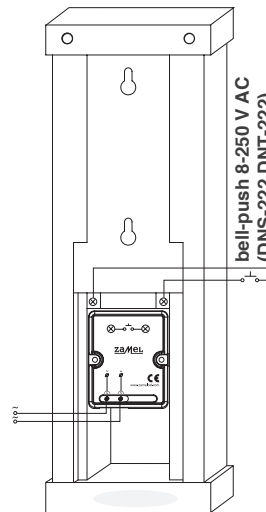


Fig. 2
Special connection,
4-wire

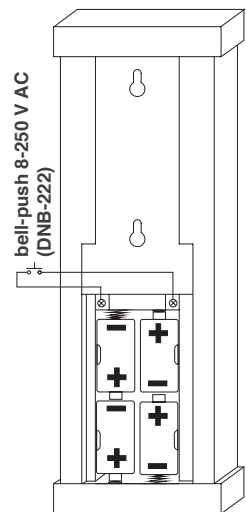


Fig. 3
Special connection,
2-wire

BUZZER chime

DNS-255 (110÷230 V AC), DNT-255 (8 V AC)



Description

- electromechanical bell,
- plastic casing,
- buzzer type sound,
- volume level app. 70 dB.

Technical data

Power consumption: 6 VA (DNS-255),
4,5 VA (DNT-255) Weight [g]: 26
Dimensions [mm]: 40 x 60 x 35
Colour: white
Bulk package [pcs]: 72

Description

- electromechanical bell,
- stained wood casing,
- brass bowl (Ø 52 mm),
- a replica of a 1920 model,
- volume level adjustment,
- volume level: app. 88 dB (DNS-971), app. 86 dB (DNT-971).

Technical data

Power consumption: 35 VA (DNS-971),
4 VA (DNT-971)
Weight [g]: 570 (DNS-971), 580 (DNT-971)
Dimensions [mm]: 168 x 97 x 85
Colour: light wood, dark wood
Bulk package [pcs]: 8

RETRO doorbell
DNS-971 (230 V AC), DNT-971 (8 V AC)

dark wood

light wood

Description

- electromechanical bell,
- plastic casing (PC),
- red-painted steel bowl (Ø 150 mm),
- ideal in schools or as a signalling device,
- protection factor: IP44,
- volume level: app. 102 dB (DNS-212M), app. 93 dB (DNT-212M).

Technical data

Power consumption: 14,5 VA (DNS-212M),
10,3 VA (DNT-212M)
Weight [g]: 1000 (DNS-212M),
1030 (DNT-212M)
Dimensions [mm]: 160 x 150 x 90
Bulk package [pcs]: 4

SMALL SCHOOL-ALARM bell
DNS-212M (230 V AC), DNT-212M (24 V AC)**Description**

- electromechanical bell,
- plastic casing (PC),
- red-painted steel bowl (Ø 230 mm),
- ideal in schools or as a signalling device,
- protection factor: IP44,
- volume level: app. 104 dB (DNS-212D) and app. 95 dB (DNT-212D).

Technical data

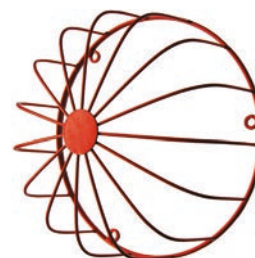
Power consumption: 14,5 VA (DNS-212D),
10,3 VA (DNT-212D)
Weight [g]: 1600 (DNS-212D),
1700 (DNT-212D)
Dimensions [mm]: 240 x 230 x 100
Bulk package [pcs]: 2

BIG SCHOOL-ALARM bell
DNS-212D (230 V AC), DNT-212D (24 V AC)**Description**

- an additional school-alarm doorbell protection (DNS-212D or DNT-212D),
- perfect while using the doorbell in nonstandard conditions (e.g. a gym) in order to secure the device from mechanical damages (e.g. a ball stroke),
- made of steel wire, red-painted (Ø 281 mm).

Technical data

Weight [g]: 360
Dimensions [mm]: Ø 281 x 130
Colour: red

SCHOOL-ALARM bell protection
ODS-256D

BOWL doorbell Type: 2000

Type: 2000 (8 V AC), Type: 2000 (12 V AC), Type: 2000 (24 V AC), Type: 2000 (230 V AC)

**Description**

- electromechanical bell,
- double coil,
- sound bowl made of chromium-plated steel (ø 70 mm),
- plastic casing,
- volume level: app. 83 dB (8, 12, 24 V AC), 86 dB (230 V AC),
- power consumption: 5,4 VA (8 V), 6 VA (12 V), 7 VA (24 V), 15 VA (230 V).

Technical data

Weight [g]: 140 (8 V), 145 (12 V), 150 (24 V), 160 (230 V)
 Dimensions [mm]: 142 x 70 x 32
 Colours: white/chrome
 Bulk package [pcs.]: 20

Bittorf *BiM*
ELEKTROTECHNIK

BOWL doorbell Type: 2531

Type: 2531 (8 V AC), Type: 2531 (12 V AC), Type: 2531 (24 V AC), Type: 2531 (230 V AC)

**Description**

- electromechanical bell,
- double coil,
- sound bowl made of chromium-plated steel (ø 70 mm),
- plastic casing,
- volume level: app. 83 dB (8, 12, 24 V AC), 86 dB (230 V AC),
- power consumption: 5,4 VA (8 V), 6 VA (12 V), 7 VA (24 V), 15 VA (230 V).

Technical data

Weight [g]: 85 (8 V), 90 (12 V), 95 (24 V), 110 (230 V)
 Dimensions [mm]: 115 x 70 x 32
 Colours: white/chrome
 Bulk package [pcs.]: 20

Bittorf *BiM*
ELEKTROTECHNIK

BOWL doorbell Type: 2536

Type: 2536 (8 V AC), Type: 2536 (12 V AC), Type: 2536 (24 V AC), Type: 2536 (230 V AC)

**Description**

- electromechanical bell,
- sound bowl made of steel (ø 48 mm),
- plastic casing,
- volume level: app. 80 dB (8, 12, 24 V AC), 83 dB (230 V AC),
- power consumption: 5,4 VA (8 V), 6 VA (12 V), 7 VA (24 V), 15 VA (230 V),
- available in the following voltage versions: 8 V AC, 12 V AC, 24 V AC, 230 V AC.

Technical data

Weight [g]: 90 (8 V), 95 (12 V), 100 (24 V), 115 (230 V)
 Dimensions [mm]: 97 x 60 x 32
 Colour: white
 Bulk package [pcs.]: 20

Bittorf *BiM*
ELEKTROTECHNIK

Flush-mounted doorbell Type: 2550

Type: 2550 (8 V AC) – time-controlled bell, Type: 2551 (8 V AC) – doorbell / buzzer

Description

- electromechanical bell,
- sound bowl made of steel (ø 48 mm) – type: 2550,
- bell/buzzer – type: 2551,
- plastic casing for flush mounting in junction box ø 60 mm,
- volume level: app. 75 dB (2550), 70 dB (2551),
- power consumption: 5,5 VA (2550), 5,5 VA (2551).

Bittorf **BIM**
ELEKTROTECHNIK

Technical data

Weight [g]: 70 (2550), 60 (2551)
Dimensions [mm]: 80 x 80 x 42
Colour: white
Bulk package [pcs.]: 20



Bell with integrated transformer Type: 2553

Type: 2553 (230 V AC) – bell, time-controlled, with integrated transformer

Description

- electromechanical bell,
- integrated transformer,
- sound bowl made of steel (ø 70 mm),
- plastic casing for surface mounting,
- installation of an additional doorbell or a door-opener at the transformer outlet possible,
- volume level: app. 83 dB,
- power consumption: 14 VA.

Bittorf **BIM**
ELEKTROTECHNIK

Technical data

Weight [g]: 380
Dimensions [mm]: 137 x 80 x 38
Colour: white
Bulk package [pcs.]: 20



Bell with integrated transformer flush mounting, Type: 2554

Type: 2554 (230 V AC) – bell, time-controlled, with integrated transformer

Description

- electromechanical bell,
- integrated transformer,
- sound bowl made of steel (ø 70 mm),
- plastic casing for flush mounting,
- installation of an additional doorbell at the transformer outlet possible,
- volume level: app. 83 dB,
- power consumption: 14 VA.

Bittorf **BIM**
ELEKTROTECHNIK

Technical data

Weight [g]: 450
Dimensions [mm]: 150 x 90 x 40
Colour: white
Bulk package [pcs.]: 20



Pipe chime MINI

GRS-941M (230 V AC), GRT-941M (8 V AC)



rustical



classic

Description

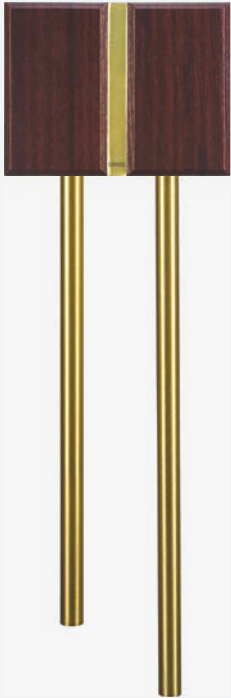
- electromechanical chime,
- plastic casing,
- wooden or wood-like masking frame,
- two sound generation brass pipes,
- sound: two tones – BIM-BAM (a higher pitch than in the pipe chime),
- volume level: app. 71 dB.

Technical data

Power consumption: 11 VA (GRS-941M), 5 VA (GRT-941M)
 Weight [g]: 1400
 Dimensions [mm]: 364 x 230 x 55
 Colour: rustical, classic,
 Bulk package [pcs]: 12

PIPE chime

GRS-941 (230 V AC), GRT-941 (8 V AC)



rustical



classic

Description

- electromechanical chime,
- plastic casing,
- wooden or wood-like masking frame,
- two sound generation brass pipes,
- sound: two tones – BIM-BAM,
- volume level: app. 82 dB (GRS-941), app. 68 dB (GRT-941).

Technical data

Power consumption: 11 VA (GRS-941), 5 VA (GRT-941)
 Weight [g]: 2250
 Dimensions [mm]: 917 x 230 x 55
 Colour: rustical, classic,
 Bulk package [pcs]: 8

Chime doorbell Type: 800

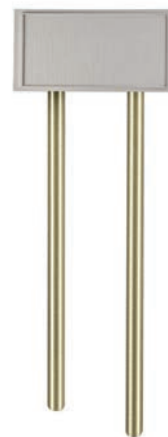
Type: 800Tr (230 V AC, with integrated transformer), Type: 800 (8÷12 V AC) o power supply with 4 batteries Type R20

Description

- electromagnetic chime doorbell,
- plastic housing,
- two sound-generating brass pipes,
- double tone sound: bim-bam,
- sound pressure level: ca. 85 dB,
- available in the following supply versions
230 V AC with integrated transformer,
8÷12 V AC or power supply with 4
batteries type R20.

Technical Data

Weight [g]: 836 (8 V AC), 1040
(with integrated transformer)
Dimensions [mm]: 923 x 224 x 51
Colour: white/brass colour
Bulk pack [pcs]: 8



Bittorf **BIM**
ELEKTROTECHNIK

Wireless doorbell BULIK

DRS-982, DRS-982K, DRS-982H



PDH-227



PDH-991

Description


- ideal as a doorbell at home, as a desk doorbell at a restaurant, hotel or as an indoor paging device,
- does not need doorbell installation,
- the wireless doorbell is directly connected to the 230 V AC socket,
- radio transmission (frequency of 433,92 MHz),
- individual user code setting feature (out of 16 channels),
- it can be operated simultaneously by wireless doorbell pushes type PDH-991, PDH-227,
- the number of chimes and doorbell pushes acting simultaneously can be increased as required,
- a possibility of increasing the operation range by means of RT-236 retransmitter RT-236,
- two tones to choose (the place of call recognition feature),
- volume level adjustment,
- additional optic (LED) signalling of an incoming signal,
- sound: DING-DONG or DING – DONG, DING – DONG,
- volume level: app. 85 dB,
- operation range* up to 150 m in an open area (by means of RT-236 retransmitter, range up to 250 m).

Possible options

- DRS-982 Bulk package [pcs]: 8
- PDH-227 Bulk package [pcs]: 36
- PDH-991 Bulk package [pcs]: 20
- DRS-982 + PDH-991 = DRS-982H Bulk package [pcs]: 6
- DRS-982 + PDH-227 = DRS-982K Bulk package [pcs]: 8

Technical data

Power supply: 230 V AC / 50 Hz
 Transmission: radio
 Frequency: 433,92 MHz
 Power consumption, stand-by: 1,8 VA
 Maximum power consumption: 2,8 VA
 Coding: 16 codes
 Protection class: II
 Protection level: IP20
 Push button protection level: IP44
 Weight [g]: 250
 Dimensions [mm]: 160 x 66 x 90
 Colour: grey

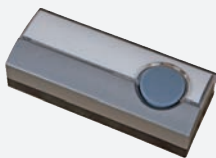
 ZAMEL devices marked with this sign can cooperate with each other.

COOPERATION AND RANGE OF WORK*

Push button	DRS-982	Retransmitter RT-236 + DRS-982
PDH-227	100 m	200 m
PDH-991	150 m	250 m

Wireless doorbell push, hermetic

PDH-227




Description

- designed to cooperate with wireless doorbell BULIK and other „X” series products,
- operating range*: 100 m (for BULIK doorbell), 150 m (for SMYK doorbell controller) in an open area,
- designed to operate in changeable weather conditions (e.g. at a gate),
- battery-powered,
- operation optically signalled,
- bell push with a user name card.

Technical data

Power supply: battery 12 V, type 23A
 Transmission: radio
 Frequency: 433,92 MHz
 Transmitter's power: <5 mW
 Coding: 16 codes
 Transmission signal: optical (red LED)
 Protection level: IP44
 Operation temperature range: -20°C ÷ +35°C
 Bulk package [pcs]: 36
 Weight [g]: 39
 Dimensions [mm]: 80 x 21 x 33
 Colour: grey, silver

 ZAMEL devices marked with this sign can cooperate with each other.

Wireless doorbell push, hermetic

PDH-991

Description

- designed to cooperate with wireless doorbell BULIK and other „X” series products,
- operating range*: 150 m (for BULIK chime), 200 m (for SMYK doorbell controller) in an open area,
- designed to operate in changeable weather conditions (e.g. at a gate),
- battery-powered,
- secured against continuous transmission,
- operation optically signalled.

Technical data

Power supply: battery 12 V, type 23A
 Transmission: radio
 Frequency: 433,92 MHz
 Transmitter's power: <5 mW
 Coding: 16 codes
 Transmission signal: acoustic (buzzer)
 Protection level: IP44
 Operation temperature range: -20°C ÷ +35°C
 Bulk package [pcs]: 20
 Weight [g]: 106
 Dimensions [mm]: 62 x 73 x 30
 Colour: white



ZAMEL devices marked with this sign can cooperate with each other.

Wireless grid-powered BULIK II doorbell

DRS-985, DRS-985H



PDH-240

Description

- new version of the well-known wireless BULIK doorbell,
- modern and interesting design,
- perfect as a doorbell, bar bell, in restaurants and hotel, an internal paging device or a personal alarm device,
- doorbell installation is not required,
- doorbell supplied directly from 230 V power mains socket,
- **operating range: 350 m* in open area,**
- **modern, touch-sensitive button (without movable elements) adapted for operation under variable weather conditions (IP56),**
- possibility to program 96 push buttons for one doorbell by yourself,
- you can assign a melody to each button (to enable recognizing call location)
- 14 different tones and melodies,
- optical signalling,
- adjustable sound level: ca. 80 dB.

Possible options

DRS-985H = DRS-985 + PDH-240
DRS-985

Technical data

Power supply: 230 V AC / 50 Hz
Power consumption, stand-by: 0,5 W
Power consumption, maximum: 2,5 W
Transmission: radio
Frequency: 868 MHz
Operating range*: 350 m
Coding: variable code
Sound level: max. 80 dB
Protection level: IP20
Protection class: II
Operating temperature range: 0°C ÷ +35°C
Weight [g]: 85
Dimensions [mm]: 115 x 70 x 60
Colour: white + black

Wireless battery-operated BULIK II doorbell

DRS-988, DRS-988H



PDH-240

Description

- new version of the well-known wireless BULIK doorbell, now battery-powered,
- modern and interesting design,
- perfect as a doorbell, bar bell, in restaurants and hotel, an internal paging device or a personal alarm device,
- doorbell installation is not required,
- battery-powered push button,
- **operating range: 350 m* in open area,**
- **modern, touch-sensitive button (without movable elements) adapted for operation under variable weather conditions (IP56),**
- possibility to program 96 push buttons for one doorbell by yourself,
- you can assign a melody to each button (to enable recognizing call location)
- 14 different tones and melodies,
- optical signalling,
- adjustable sound level: ca. 80 dB.

Possible options

DRS-988H = DRS-988 + PDH-240
DRS-988

Technical data

Power supply: 3 batteries 1,5 V type AAA
Power consumption, stand-by: 0,3 W
Power consumption, maximum: 2,5 W
Transmission: radio
Frequency: 868 MHz
Operating range*: 350 m
Coding: variable code
Sound level: max. 80 dB
Protection level: IP20
Protection (IP) ratings III
Operating temperature range: 0°C ÷ +35°C
Weight [g]: 120
Dimensions [mm]: 115 x 70 x 20
Colour: white + black

Weather-proof wireless control button

PDH-240



Description

- compatible with BULIK II wireless doorbells (DRS-985 or DRS-988).
- touch-sensitive button, capacitive (without moving elements),
- optical activity signalling,
- **operating range*: 350 m,**
- adapted for operation in harsh and variable weather conditions (e.g. at a gate) - IP56,
- battery-powered.

Technical data

Power supply: 2 x battery 1,5 V type AAA
Transmission: radio
Frequency: 868 MHz
Transmitter power: 20 mW
Coding: variable code
Protection level: IP56
Operating temperature range: -20°C ÷ +55°C
Weight [g]: 50
Dimensions [mm]: 76 x 39 x 19
Colour: white

Wireless grid-powered BULIK II PRO doorbell

DRS-995, DRS-995H

Max. operating range 1400 m in open areas!

Thanks to using an innovative method for radio signal modulation we managed to achieve very wide bell operation range of as many as 1400 m in open space. Such a wide range means that the bell will work well in difficult conditions such as large number of walls or other obstacles that might significantly reduce radio signal range inside buildings. The Bulik PRO doorbell proves useful everywhere where a regular wireless bell with standard range cannot guarantee correct and reliable operation.

Description

- new version of the well-known wireless BULIK doorbell,
- modern and interesting design,
- perfect as a doorbell, bar bell, in restaurants and hotel, an internal paging device or a personal alarm device,
- doorbell installation is not required,
- doorbell supplied directly from 230 V power mains socket,
- **operating range: 1400 m in the open area,**
- **modern, touch-sensitive button (without movable elements) adapted for operation under variable weather conditions (IP56),**
- possibility to program 96 push buttons for one doorbell by yourself,
- you can assign a melody to each button (to enable recognizing call location)
- the ability to upload any MP3 sound to an microSD memory card,
- optical signalling,
- adjustable sound level: ca. 80 dB.

Available versions

DRS-995H = DRS-995 + PDH-250

DRS-995

Technical data

Power supply: 230 V AC / 50 Hz

Power consumption, stand-by: 0,5 W

Power consumption, maximum: 2,5 W

Transmission: radio

Frequency: 868 MHz

Operating range*: 1400 m

Coding: variable code

Sound level: max. 80 dB

Protection level: IP20

Protection class: II

Operating temperature range: 0°C ÷ +35°C

Weight [g]: 85

Dimensions [mm]: 115 x 70 x 60

Colour: white + black



PDH-250

Weather-proof wireless control button

PDH-250

Description

- compatible with BULIK II PRO wireless doorbells (DRS-995).
- touch-sensitive button, capacitive (without moving elements),
- optical activity signalling,
- **operating range: 1400 m,**
- adapted for operation in harsh and variable weather conditions (e.g. at a gate) - IP56,
- battery-powered.

Technical data

Power supply: 2 x battery 1,5 V type AAA

Transmission: radio

Frequency: 868 MHz

Transmitter power: 20 mW

Coding: variable code

Protection level: IP56

Operating temperature range: -20°C ÷ +55°C

Weight [g]: 50

Dimensions [mm]: 76 x 39 x 19

Colour: white



* The given range concerns opened area i.e. perfect conditions without obstacles. If between the transmitter and the receiver obstacles are found, range decrease can be expected depending on the following: wood and plaster from 5 to 20%, brick from 20 to 40%, armed concrete from 40 up to 80%. As for metallic obstacles the application of radio system is not recommended due to an enormous operation range decrease. Also overhead and underground power lines have a negative influence on the operation range as well as transmitters of the GSM network placed in a short distance of devices.

Doorbell controller, with a hermetic doorbell push

BSD-202H



PDH-991

Description

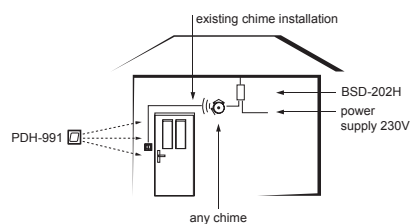
- doorbell operation of any sound and supply voltage without expansion of doorbell installation,
- a possibility of a parallel connection to the existing doorbell installation,
- an ideal help for persons who are partially deaf or in increased noise level conditions (due to the possibility of a parallel lighting connection),
- radio transmission (frequency 433,92 MHz),
- operation range*: 200 m in an open area,
- individual user code setting feature (16 codes to select from),
- designed to operate in changeable weather conditions (e.g. at a gate),
- monostable operation mode (device operation time adjustment from 0.5 sec. to 11 sec.),
- receiver directly connected to 230 V power supply,
- wireless battery-operated doorbell push,
- the doorbell can operate with a traditional doorbell push or with wireless doorbell pushes produced by ZAMEL ("X" series),
- the number of doorbell pushes controlling one receiver can be increased according as required.

Possible options

- BSD-202 Bulk package [pcs]: 22
- PDH-991 Bulk package [pcs]: 20
- BSD-202+PDH-991=BSD-202H Bulk package [pcs]: 10

Technical data

- Power supply: 230 V AC /50 Hz
- Transmission: radio
- Frequency: 433,92 MHz
- Coding: 16 codes
- Power consumption: 3 VA
- Output capacity: 10 A
- Output: NO contact
- Operation mode: monostable with fluent operation time adjustment from 0,5 sec. to 11 sec.
- Protection level: IP20
- Operation temperature range: 0°C ÷ +35°C
- Weight [g]: 270
- Dimensions [mm]: 145 x 36 x 80
- Colour: white



SERIA X ZAMEL devices marked with this sign can cooperate with each other.

Wireless doorbell retransmitter Series „X”

RT-236



Description

- used to cooperate with „X” series wireless doorbells,
- used to increase the operation range of „X” series wireless doorbells if not sufficient,
- recommended in buildings with big spaces or complicated spatial arrangement,
- the device receives a signal from a doorbell push and sends an amplified signal to a doorbell,
- it is possible to increase the number of retransmitters operating with the doorbell according to requirements and in order to cover the range of any building space,
- radio transmission (frequency 433,92 MHz),
- operation range*: 100 m in an open area,
- designed to operate in changeable weather conditions,
- supplied from a 12 V DC power supply, the following power supplies are recommended with reference to the installation place:
 - a) retransmitter indoor – 4 WZS 12/250 power supply,
 - b) retransmitter outdoor – ZSM-12 power supply, designed for the indoor installation (switch board, surface mounting) with wires led out for the device.

Technical data

- Power supply: 12 V DC power supply
- Power consumption: 100 mA reception
- Transmission: radio
- Frequency: 433,92 MHz
- Transmitter's power: < 5 mW
- Coding: 16 codes
- Operation range*: 100 m in an open area
- Protection level: IP56
- Transmitter's sensitivity: 3 uV (super reaction)
- Operation temperature range: 0°C ÷ +35°C
- Bulk package [pcs]: 12
- Weight [g]: 200
- Dimensions [mm]: 100 x 100 x 35
- Colour: grey

SERIA X ZAMEL devices marked with this sign can cooperate with each other.

COOPERATION AND RANGE OF WORK*

Push button	DRS-982	BSD-202	RT-236 + DRS-982	RT-236 + BSD-202
PDH-227	100 m	150 m	200 m	250 m
PDH-991	150 m	200 m	250 m	300 m

* The given range concerns opened area i.e. perfect conditions without obstacles. If between the transmitter and the receiver obstacles are found, range decrease can be expected depending on the following: wood and plaster from 5 to 20%, brick from 20 to 40%, armed concrete from 40 up to 80%. As for metallic obstacles the application of radio system is not recommended due to an enormous operation range decrease. Also overhead and underground power lines have a negative influence on the operation range as well as transmitters of the GSM network placed in a short distance of devices.

Description

- perfect as a doorbell, an internal paging device or a personal alarm device
- useful at home, in a restaurant, a hotel, a company office or for people needing care,
- doorbell installation is not required,
- optical signalling useful for e.g. people with impaired hearing,
- radio transmission (433 MHz frequency),
- **operating range: 150 m in the open area,**
- encoding: 256 codes (automatic learning of the push button code during programming)
- possibility to program 3 push buttons for one chime
- possibility to assign a different melody to each push button (to easily identify the source of the call)
- push button designed to work in variable weather conditions (IP44),
- 55 different tones and melodies,
- loudness level: max. 85 dB,
- 5-level sound volume adjustment.

Technical data

Frequency: 433 Mhz
Coding: 256 codes
Sound level: max. 85 dB
Protection class: II

Technical data (BELL PUSH)

Power supply: battery 12 V, type 23A
Protection level: IP44
Operating temperature range: -20°C ÷ +35°C
Dimensions [mm]: 34 x 74 x 19
Weight [g]: 32
Colour: white

Technical data (DOORBELL)

Power supply: 230 V AC / 50 Hz
Power consumption: stand-by 4mA, sound 8 mA
Protection level: IP20
Operating temperature range: 0°C ÷ 35°C
Dimensions [mm]: 82 x 82 x 68
Weight [g]: 81
Colour: white

Wireless grid-powered ROCK doorbell

ST-970



Description

- ideal as a doorbell or an indoor paging device,
- useful at home, in an office and for people requiring care,
- does not need doorbell installation,
- it is directly connected to the 230 V AC socket,
- battery-operated doorbell push,
- radio transmission (frequency of 433,92 MHz),
- operation range*: 60 m in an open area,
- coding: 256 codes (code default setting, code not possible to be changed by a user),
- bell push is not designed to operate in difficult weather conditions,
- sound: 24 melodies to choose from (polyphonic sound),
- volume level: 80 dB.

Technical data

Transmission: radio
Frequency: 433,92 MHz
Coding: 256 codes (code default setting, code not possible to be changed by a user)
Operation range*: 60 m in an open area
Protection level: IP20
Operation temperature range: 0°C ÷ + 35°C

Technical data (BELL PUSH)

Power supply: battery 12 V, type 23A
Weight [g]: 35
Dimensions [mm]: 77 x 32 x 24
Colour: white + grey

Technical data (DOORBELL)

Power supply: 230 V AC / 50 Hz
Power consumption: stand-by 3 mA, sound 70 mA
Weight [g]: 85
Dimensions [mm]: 100 x 55 x 68
Colour: white + grey

Wireless doorbell FOXTROT

ST-925



Wireless doorbell DISCO

ST-930



Description

- ideal as a doorbell, an indoor paging device or personal alarm,
- useful at home, in a restaurant, in an office and for people requiring care,
- does not need doorbell installation,
- useful call optical signalling e.g. for persons who are partially deaf,
- it is directly connected to the 230 V AC socket,
- battery-operated doorbell push,
- radio transmission (frequency of 433,92 MHz),
- operation range*: 100 m in an open area,
- bell push is not designed to operate in difficult weather conditions,
- 36 sounds to choose (polyphonic sound),
- 8 level volume adjustment,
- volume level: max. 85 dB.

Technical data

Frequency: 433 MHz
 Sound level: max. 85 dB
 Protection level: IP20
 Protection class: II
 Coding: 756 codes
 Operation range*: 100 m in an open area

Technical data (BELL PUSH)

Power supply: battery 12 V, type 23A
 Operating temperature range: -20°C ÷ +35°C
 Dimensions [mm]: 75 x 43 x 20
 Weight [g]: 36
 Colour: white

Technical data (DOORBELL)

Power supply: 230 V AC / 50Hz
 Power consumption: stand-by 1 mA, sound 73 mA
 Operating temperature range: 0°C ÷ +35°C
 Dimensions [mm]: 95 x 60 x 29
 Weight [g]: 71
 Colour: white

Wireless doorbell POP

ST-940



Description

- ideal as a doorbell, an indoor paging device or personal alarm,
- useful at home, in a restaurant / hotel, in an office and for people requiring care,
- does not need doorbell installation,
- modern and interesting design,
- it is directly connected to the 230 V AC socket,
- battery-operated doorbell push,
- radio transmission (frequency of 433,92 MHz),
- operation range*: 100 m in an open area,
- bell push is not designed to operate in difficult weather conditions,
- 52 sounds to choose (polyphonic sound),
- 4 level volume adjustment,
- volume level: max. 80 dB.

Technical data

Frequency: 433 MHz
 Coding: 6561 codes (code with default setting without changing possibility)
 Protection level: IP20
 Protection class: II
 Operation range in an open area: 100 m*

Technical data (BELL PUSH)

Power supply: battery 12 V, type 23A
 Operating temperature range: -20°C ÷ +35°C
 Dimensions [mm]: 41 x 71 x 19
 Weight [g]: 28
 Colour: white

Technical data (DOORBELL)

Power supply: 230 V AC / 50Hz
 Power consumption: stand-by 5 mA, sound 70 mA
 Operating temperature range: 0°C ÷ +35°C
 Dimensions [mm]: 80 x 80 x 29
 Weight [g]: 96
 Colour: white

* The given range concerns opened area i.e. perfect conditions without obstacles. If between the transmitter and the receiver obstacles are found, range decrease can be expected depending on the following: wood and plaster from 5 to 20%, brick from 20 to 40%, armed concrete from 40 up to 80%. As for metallic obstacles the application of radio system is not recommended due to an enormous operation range decrease. Also overhead and underground power lines have a negative influence on the operation range as well as transmitters of the GSM network placed in a short distance of devices.

Wireless doorbell with battery-free button SAMBA

ST-950

World's first doorbell with wireless button that needs no power supply!

The doorbell has wireless button in which a mechanical-to-electrical energy transformer has been installed. Such a solution eliminated the need of using batteries or any other sources of power. Lack of battery, wide operating temperature range and water-resistance constitute undoubted advantages of the transmitter guaranteeing its correct operation under harsh weather conditions, also after total immersion in water.



Description

- perfect as a doorbell, an internal paging device or a personal alarm device
- useful at home, in a restaurant, a hotel, a company office or for people needing care,
- doorbell installation is not required,
- optical signalling useful for e.g. people with impaired hearing,
- chime supplied directly from 230 V AC power mains socket,
- **wireless transmitter button without any power supply (working without a battery),**
- radio transmission (433 MHz frequency),
- operating range*: 100 m in the open area,
- coding: million codes,
- **button adapted to variable weather conditions, resistant to water (works even after total immersion in water) and low temperatures,**
- 25 tones to chose from (polyphonic tones),
- loudness level: max. 85 dB.

Technical data

Frequency: 433 MHz
 Sound level: max. 85 dB
 Operating range*: 100 m in open areas
 Coding: million codes

Technical data (BELL PUSH)

Power supply: none

Operating temperature range: $-25^{\circ}\text{C} \div +40^{\circ}\text{C}$
 Protection: waterproof
 Dimensions [mm]: 46 x 88 x 31
 Weight [g]: 65
 Colour: white

Technical data (DOORBELL)

Power supply: 230 V AC / 50 Hz
 Power consumption, stand-by 4 mA, sound 60 mA
 Operating temperature range: $0^{\circ}\text{C} \div +35^{\circ}\text{C}$
 Protection level: IP20
 Dimensions [mm]: 68 x 86 x 71
 Weight [g]: 93
 Colour: white

Wireless BLUES doorbell

ST-960

Description

- perfect as a doorbell, an internal paging device or a personal alarm device
- useful at home, in a restaurant, a hotel, a company office or for people needing care,
- doorbell installation is not required,
- optical signalling useful for e.g. people with impaired hearing,
- doorbell supplied directly from 230 V power mains socket,
- battery powered push button,
- radio transmission (433 MHz frequency),
- operating range*: 100 m in the open area,
- push button designed to work in variable weather conditions (IP44),
- 36 tones to chose from (polyphonic tones),
- sound level: ca. 80 dB
- 4 sound volume adjustment levels.

Technical data

Transmission: radio
 Frequency: 433 MHz
 Operating range*: 100 m in open areas
 Coding: 256 codes
 Sound level: max. 80 dB
 Protection class: II

Technical data (BELL PUSH)

Power supply: battery 12 V type 23A
 Operating temperature range: $-20^{\circ}\text{C} \div +35^{\circ}\text{C}$
 Dimensions [mm]: 60 x 85 x 24
 Weight [g]: 48
 Colour: black

Technical data (DOORBELL)

Power supply: 230 V AC / 50 Hz
 Power consumption, stand-by 7 mA, sound 75 mA
 Operating temperature range: $0^{\circ}\text{C} \div +35^{\circ}\text{C}$
 Protection level: IP20
 Dimensions [mm]: 60 x 95 x 30
 Weight [g]: 65
 Colour: black




Wireless battery-operated doorbell ALCANO

ST-338



Description

- ideal as a doorbell, an indoor paging device or personal alarm,
- useful at home, in a restaurant / hotel, in an office and for people requiring care,
- does not need doorbell installation,
- battery-operated doorbell and doorbell push,
- bell push with user name,
- aluminium front cover,
- radio transmission (frequency of 433,92 MHz),
- operating range*: 100 m in an open area,
- a possibility of increasing the operation range, by means of RT-228 retransmitter,
- a possibility of adding two doorbell pushes to one doorbell,
- a possibility of adding any number of doorbells to one doorbell push,
- possible cooperation with doorbell push type ST-400P and ST-300P,
- bell push designed to operate in difficult weather conditions,
- four tones to choose from (e.g. Westminster, Ding Dong, pipe gong, trumpet) – call place recognition function,
- volume level: 73 dB

 ZAMEL devices marked with this sign can cooperate with each other.

Technical data

Transmission: radio
 Frequency: 433,92 MHz
 Operation range*: 100 m in an open area
 Coding: 256 codes
 Sound level: max. 73 dB
 Protection class: III

Technical data (BELL PUSH)

Power supply: battery 3 V, type CR2032
 Protection level: IP44
 Operating temperature range: -20°C ÷ +35°C
 Weight [g]: 40
 Dimensions [mm]: 85 x 26 x 32
 Colour: silver

Technical data (DOORBELL)

Power supply: 2 x battery 1,5 V, type AA
 Power consumption: stand-by 0,65 mA, sound 100 mA
 Protection level: IP20
 Operating temperature range: 0°C ÷ +35°C
 Weight [g]: 100
 Dimensions [mm]: 115 x 115 x 30
 Colour: silver (aluminium)


Wireless battery-operated doorbell ALCALINO

ST-337



Description

- ideal as a doorbell, an indoor paging device or personal alarm,
- useful at home, in a restaurant / hotel, in an office and for people requiring care,
- does not need doorbell installation,
- battery-operated doorbell and doorbell push,
- bell push with user name,
- aluminium front cover,
- radio transmission (frequency of 433,92 MHz),
- operating range*: 100 m in an open area,
- a possibility of increasing the operation range, by means of RT-228 retransmitter,
- a possibility of adding two doorbell pushes to one chime,
- a possibility of adding any number of doorbells to one doorbell push,
- possible cooperation with doorbell push type ST-400P and ST-300P,
- bell push designed to operate in difficult weather conditions,
- four tones to choose from (e.g. Westminster, Ding Dong, pipe gong, trumpet) – call place recognition function,
- volume level: 70 dB.

 ZAMEL devices marked with this sign can cooperate with each other.

Technical data

Transmission: radio
 Frequency: 433,92 MHz
 Operation range*: 100 m in an open area
 Coding: 256 codes
 Sound level: max. 70 dB
 Protection class: III

Technical data (BELL PUSH)

Power supply: battery 3 V, type CR2032
 Operating temperature range: -20°C ÷ +35°C
 Protection level: IP44
 Weight [g]: 40
 Dimensions [mm]: 85 x 26 x 32
 Colour: silver

Technical data (DOORBELL)

Power supply: 2 x battery 1,5 V, type R14
 Power consumption: stand-by 0,25 mA, sound 100 mA
 Operating temperature range: 0°C ÷ +35°C
 Protection level: IP20
 Weight [g]: 100
 Dimensions [mm]: 120 x 72 x 44
 Colour: silver (aluminium)

* The given range concerns opened area i.e. perfect conditions without obstacles. If between the transmitter and the receiver obstacles are found, range decrease can be expected depending on the following: wood and plaster from 5 to 20%, brick from 20 to 40%, armed concrete from 40 up to 80%. As for metallic obstacles the application of radio system is not recommended due to an enormous operation range decrease. Also overhead and underground power lines have a negative influence on the operation range as well as transmitters of the GSM network placed in a short distance of devices.

Wireless battery-operated doorbell BRILLO

ST-372

Description

- ideal as a doorbell, paging device or personal alarm,
- an ideal help for people who are partially deaf or for babies' parents – additional call optic signalling (blue LED diode),
- useful at home, in an office and for people who require care,
- three modes of operation possible: 1. sound, 2. sound + optic signalling 3. optic signalling,
- does not require doorbell installation,
- battery-operated doorbell and doorbell push,
- bell push with a user name,
- operation range*: 100 m in an open area,
- a possibility of adding two doorbell pushes to one doorbell,
- a possibility of adding any number of chimes to one doorbell push,
- bell push designed to operate in difficult weather conditions (e.g. at a gate),
- a possibility of increasing the operation range, by means of RT-228 retransmitter,
- possible cooperation with doorbell push type ST-300P and ST-400P,
- eight tones to choose (e.g. Westminster, Ding Dong, pipe gong, trumpet and popular melodies) – call place recognition function,
- volume level adjustment,
- volume level: 76 dB.

Possible options

Doorbell BRILLO + Wireless doorbell push ST-300P = ST-372
Bulk package [pcs]: 6
ST-300P Bulk package [pcs]: 8

Technical data

Transmission: radio
Frequency: 433,92 MHz
Operation range*: 100 m in an open area
Coding: 256 codes
Sound level: max. 76 dB
Protection class: III

Technical data (BELL PUSH)

Power supply: battery 3 V, type CR2032
Operating temperature range: -20°C ÷ +35°C
Protection level: IP44
Weight [g]: 40
Dimensions [mm]: 85 x 26 x 32
Colour: silver

Technical data (DOORBELL)

Power supply: 2 x battery 1,5 V, type R14
Power consumption: stand-by 0,35 mA, sound 100 mA
Operating temperature range: 0°C ÷ +35°C
Protection level: IP20, Weight [g]: 130
Dimensions [mm]: 150 x 73 x 46, Colour: silver + graphite



ZAMEL devices marked with this sign can cooperate with each other.



Wireless battery-operated doorbell SATTINO

ST-230

Description

- ideal as a doorbell, an indoor paging device or personal alarm,
- useful at home, in a restaurant / hotel, in an office and for people requiring care,
- does not need doorbell installation,
- battery-operated doorbell and doorbell push,
- a possibility of 6 V DC power supply connection (2WZN 7,5/150 power supply is recommended),
- bell push with user name card,
- radio transmission (frequency of 433,92 MHz),
- operation range*: 150 m in an open area,
- soft-touch "velvet" casing,
- a possibility to adjust individual user code (256 codes),
- a possibility of adding two doorbell pushes to one doorbell,
- bell push designed to operate in changeable weather conditions,
- a possibility of increasing the operation range, by means of RT-228 retransmitter,
- possible cooperation with doorbell push type ST-400P and ST-300P,
- eight tones to choose (e.g. dog's barking, electronic phone, bim-bam and popular melodies) – call place recognition function,
- volume adjustment ("silent – loud" switch),
- volume level: 80 dB.

Possible options

Doorbell SATTINO + Wireless bell push ST-300P = ST-230 Bulk package [pcs]: 10
ST-300P Bulk package [pcs]: 8

Technical data

Transmission: radio
Frequency: 433,92 MHz
Operation range*: 150 m in an open area
Coding: 256 codes
Sound level: max. 80 dB
Protection class: III

Technical data (BELL PUSH)

Power supply: battery 3 V, type CR2032
Operating temperature range: -20°C ÷ +35°C
Protection level: IP44, Weight [g]: 40
Dimensions [mm]: 85 x 26 x 32, Colour: silver

Technical data (DOORBELL)

Power supply: 4 x battery 1,5 V, type AA or 6 V DC power supply
Power consumption: stand-by 0,47 mA, sound 90 mA
Operating temperature range: 0°C ÷ +35°C
Protection level: IP20, Weight [g]: 130
Dimensions [mm]: 125 x 120 x 30, Colour: graphite + silver



ZAMEL devices marked with this sign can cooperate with each other.



Wireless battery-operated doorbell, with vibration VIBRO

ST-229/N



Description

- ideal as a doorbell, an indoor paging device or personal alarm,
- due to vibration signalling the device is an ideal help for persons who are deaf, for little babies' parents or in increased noise level conditions,
- three operation modes:
 - a) sound and optic signalling,
 - b) sound and optic signalling + vibration,
 - c) vibration,
- does not require doorbell installation,
- battery-operated doorbell,
- the device is equipped with a clip that can be attached to a belt,
- radio transmission (frequency of 433,92 MHz),
- possibility of individual user code adjustment (256 codes to choose from),
- operation range*: 100 m in an open area,
- a possibility of adding two doorbell pushes to one doorbell,
- a possibility of increasing the operation range, by means of RT-228 retransmitter,
- possible cooperation with push button type ST-300P and ST-400P,
- eight tones to choose (e.g. dog's barking, electronic phone, bim-bam and popular melodies) – call place recognition function,
- volume level: max. 75 dB.

Technical data

Frequency: 433,92 MHz
 Coding: (256 codes)
 Sound: 8 sounds to choose
 Sound level: max. 75 dB
 Optic signalling: red LED diode
 Protection class: III

Technical data (BELL PUSH)

Power supply: battery 3 V, type CR2032
 Operating temperature range: -10°C ÷ +35°C
 Protection level: IP44
 Weight [g]: 40
 Dimensions [mm]: 85 x 26 x 32
 Colour: white

Technical data (DOORBELL)

Power supply: 2 x battery 1,5 V, type AA
 Power consumption: stand-by 0,3 mA, sound 70 mA, vibration 90 mA
 Operating temperature range: 0°C ÷ +35°C
 Protection level: IP20
 Weight [g]: 130
 Dimensions [mm]: 125 x 120 x 30
 Colour: white

SERIA
M
 ZAMEL devices marked with this sign can cooperate with each other.

Wireless doorbell push, hermetic

ST-300P



Description

- designed to cooperate with wireless M series doorbells (ALCANO, ALCALINO, BRILLO, VIBRO, SATTINO) and with RT-228 retransmitter,
- additionally the doorbell push can cooperate with wireless doorbell LIBERO (limiting it to the functionality of a wireless doorbell),
- operating range*: 100 m (for ALCANO, LIBERO, ALCALINO, LOOPO, BRILLO, VIBRO doorbells), 150 m (for SATTINO chime) in an open area,
- designed to operate in changeable weather conditions (e.g. at a gate),
- battery-powered doorbell push,
- bell push with a user name card.

Technical data

Bulk package [pcs]: 8
 Weight [g]: 40
 Dimensions [mm]: 85 x 26 x 32
 Colour: silver
 Power supply: battery 3 V, type CR2032
 Transmission: radio
 Frequency: 433,92 MHz
 Operation range*: to 150 m in an open area
 Coding: 256 codes
 Protection level: IP44
 Operation temperature range: -20°C ÷ +35°C

SERIA
M
 ZAMEL devices marked with this sign can cooperate with each other.

* The given range concerns opened area i.e. perfect conditions without obstacles. If between the transmitter and the receiver obstacles are found, range decrease can be expected depending on the following: wood and plaster from 5 to 20%, brick from 20 to 40%, armed concrete from 40 up to 80%. As for metallic obstacles the application of radio system is not recommended due to an enormous operation range decrease. Also overhead and underground power lines have a negative influence on the operation range as well as transmitters of the GSM network placed in a short distance of devices.

Wireless „M” series doorbell retransmitter

RT-228

Description

- used to cooperate the wireless “M” series doorbells,
- used to increase the operation range of “M” series doorbells, if it is not sufficient,
- it is recommended in buildings with big spaces or with a complicated spacial structure,
- a possibility to adjust individual user code (256 codes),
- the device receives a signal from a remote control and sends an amplified signal to a doorbell,
- the number of retransmitters cooperating with a doorbell can be increased as required, so that the range covers the building of any dimension,
- radio transmission (frequency of 433,92 MHz),
- operation range*: 35 m in an open area,
- it is not designed to operate in changeable weather conditions,
- additional operation optic signalling.

Technical data

Power supply: 4 x battery 1,5 V, type AA
 Transmission: radio
 Frequency: 433,92 MHz
 Power consumption: stand-by 0,25 mA, max. 8 mA
 Coding: 256 codes
 Transmission signal: optic (red LED)
 Protection level: IP20
 Operation temperature range: 0°C ÷ + 35°C
 Bulk package [pcs]: 12
 Weight [g]: 160
 Dimensions [mm]: 125 x 120 x 30
 Colour: white + green



ZAMEL devices marked with this sign can cooperate with each other.



Description

- power supply as an alternative supply of wireless SATTINO ST-230 doorbell,
- does not charge doorbell batteries.

Technical data

Weight [g]: 180
 Dimensions [mm]: 50 x 74 x 78
 Input voltage: 230 V AC
 Output voltage: 7,5 V DC
 Output current: 150 mA
 Operation temperature range: 0°C ÷ 40°C
 Protection level: IP30

Power supply

2 WZN 7,5/150



Description

- power supply designed to supply RT-236 retransmitter.

Technical data

Weight [g]: 290
 Dimensions [mm]: 56 x 84 x 82
 Input voltage: 230 V AC
 Output voltage: 12 V DC
 Output current: 250 mA
 Protection level: IP30

Power supply

4 WZS 12/250



* The given range concerns opened area i.e. perfect conditions without obstacles. If between the transmitter and the receiver obstacles are found, range decrease can be expected depending on the following: wood and plaster from 5 to 20%, brick from 20 to 40%, armed concrete from 40 up to 80%. As for metallic obstacles the application of radio system is not recommended due to an enormous operation range decrease. Also overhead and underground power lines have a negative influence on the operation range as well as transmitters of the GSM network placed in a short distance of devices.

Wireless battery-operated doorbell TECHNO

ST-251



Description

- ideal as a doorbell, an indoor paging device or personal alarm,
- useful at home, in a restaurant, hotel or in an office or for people requiring care,
- does not require doorbell installation,
- useful call optical signalling e.g. for a person who is partially deaf,
- useful complete sound switch off e.g. due to small babies,
- **3 operation modes (1. Sound only; 2. Optical signalling only; 3. Optical signalling and sound),**
- doorbell and doorbell push battery-powered,
- radio transmission (frequency 433 MHz),
- operation range*: 100 m in an open area,
- coding: million codes (automatic push doorbell code remembering during programming),
- possibility of programming 4 doorbell pushes to one doorbell,
- designed to operate in changeable weather conditions,
- 36 sounds and melodies to choose,
- volume level: max. 80 dB,
- 3-step volume level adjustment.

Technical data

Frequency: 433 MHz
 Operation range*: 100 m in an open area
 Coding: million codes
 Sound level: max. 80 dB
 Protection class: III

Technical data (BELL PUSH)

Power supply: battery 3 V, type CR2032
 Operating temperature range: -20°C ÷ +35°C
 Protection level: IP44
 Dimensions [mm]: 80 x 31 x 20
 Weight [g]: 30
 Colour: black + white

Technical data (DOORBELL)

Power supply: 2 x battery 1,5 V, type AA
 Power consumption: stand-by 0,5 mA,
 sound 200 mA
 Operating temperature range: 0°C ÷ 35°C
 Protection level: IP20
 Dimensions [mm]: 109 x 77 x 40
 Weight [g]: 82
 Colour: black + silver

Wireless battery-operated doorbell JAZZ

ST-260



Description

- perfect as a doorbell, an internal paging device or a personal alarm device
- useful at home, in a restaurant, a hotel, a company office or for people needing care,
- doorbell installation is not required,
- optical signalling useful for e.g. people with impaired hearing,
- radio transmission (433 MHz frequency),
- operating range*: 100 m in the open area,
- encoding: 256 codes (automatic learning of the push button code during programming)
- possibility to program 3 push buttons for one chime
- **modern, touch-sensitive button (without movable elements) adapted for operation under variable weather conditions (IP44),**
- 10 different tones and melodies,
- **high loudness level: max. 90 dB,**
- 5-level sound volume adjustment.

Technical data

Frequency: 433 MHz
 Coding: 256 codes
 Loudness level ca. 90 dB
 Protection class: III

Technical data (BELL PUSH)

Power supply: 1 x battery 3 V type: CR2032
 Button protection rating: IP44
 Operating temperature range: -20°C to +35°C
 Dimensions [mm]: 35 x 68 x 20
 Weight [g]: 27
 Colour: white

Technical data (DOORBELL)

Power supply: 3 x battery 1.5 V type: AA
 Power consumption, stand-by: 1 mA,
 sound 120 mA
 Protection level: IP 20
 Operating temperature: 0°C to 35°C
 Dimensions [mm]: 83 x 132 x 29
 Weight [g]: 108
 Colour: white

* The given range concerns opened area i.e. perfect conditions without obstacles. If between the transmitter and the receiver obstacles are found, range decrease can be expected depending on the following: wood and plaster from 5 to 20%, brick from 20 to 40%, armed concrete from 40 up to 80%. As for metallic obstacles the application of radio system is not recommended due to an enormous operation range decrease. Also overhead and underground power lines have a negative influence on the operation range as well as transmitters of the GSM network placed in a short distance of devices.

Wireless battery-operated doorbell with battery-free button RUMBA

ST-370

Doorbell with wireless button that needs no power supply!

The doorbell has wireless button in which a mechanical-to-electrical energy transformer has been installed. Such a solution eliminated the need of using batteries or any other sources of power. Lack of battery, wide operating temperature range and water-resistance constitute undoubted advantages of the transmitter guaranteeing its correct operation under harsh weather conditions, also after total immersion in water.



Description

- perfect as a doorbell, an internal paging device or a personal alarm device
- useful at home, in a restaurant, a hotel, a company office or for people needing care,
- doorbell installation is not required,
- optical signalling useful for e.g. people with impaired hearing,
- radio transmission (433 MHz frequency),
- operating range*: 100 m in the open area,
- encoding: 256 codes (automatic learning of the push button code during programming)
- possibility to program 3 push buttons for one chime
- **wireless transmitter button without any power supply (working without a battery),**
- **button adapted to variable weather conditions, resistant to water (works even after total immersion in water) and low temperatures,**
- 32 different tones and melodies to choose from
- loudness level: max. 80 dB,
- 4-level sound volume adjustment.

Technical data

Frequency: 433 MHz
Coding: 256 codes
Sound level: ok. 80 dB
Protection class: III

Technical data (BELL PUSH)

Power supply: none
Protection: water-resistant
Operating temperature range: -20°C ÷ +35°C
Dimensions [mm]: 42 x 82 x 29
Weight [g]: 71
Colour: white

Technical data (DOORBELL)

Power supply: 3 x battery 1,5 V type: AA
Power consumption, stand-by: 0,7 mA, sound 53 mA
Protection level: IP 20
Operating temperature: 0°C to 35°C
Dimensions [mm]: 77 x 110 x 40
Weight [g]: 100
Colour: white + anthracite

Wireless battery-operated doorbell SOUL

ST-380

Description

- ideal as a doorbell, an indoor paging device or personal alarm,
- useful at home, in a restaurant, hotel or in an office or for people requiring care,
- does not require doorbell installation,
- useful call optical signalling e.g. for a person who is partially deaf,
- modern and interesting design,
- doorbell and doorbell push battery-powered,
- radio transmission (frequency 433 MHz),
- operation range*: 100 m in an open area,
- coding: 6000 codes (code default setting without changing possibility),
- designed to operate in changeable weather conditions,
- 32 sounds to choose (polyphonic sounds of good quality)
- volume level: max. 75 dB,
- 3-step volume level adjustment.

Technical data

Frequency: 433 MHz
Coding: 6000 codes
Sound level: max. 75 dB
Protection class: III

Technical data (BELL PUSH)

Power supply: battery 12 V, type 23A
Protection level: IP44
Operating temperature range: -20°C ÷ +35°C
Dimensions [mm]: 85 x 35 x 20
Weight [g]: 136
Colour: black

Technical data (DOORBELL)

Power supply: 2x battery 1,5V, type AA
Power consumption: stand-by 0,4 mA, sound 25 mA
Protection level: IP20
Operating temperature range: 0°C ÷ 35°C
Dimensions [mm]: 94 x 128 x 33
Weight [g]: 35
Colour: black



Wireless battery-operated doorbell ZUMBA

ST-390



Description

- perfect as a doorbell, an internal paging device or a personal alarm device
- useful at home, in a restaurant, a hotel, a company office or for people needing care,
- doorbell installation is not required,
- optical signalling useful for e.g. people with impaired hearing,
- possibility to switch the sound off – e.g., useful for parents with small children
- **3 operation modes (optical signalling only, sound only, optical signalling + sound),**
- battery-operated doorbell and push button
- radio transmission (433 MHz frequency),
- **operating range: 150 m in the open area,**
- encoding: million codes,
- possibility of programming additional buttons on your own,
- push button designed to work in variable weather conditions (IP44),
- 36 tones to choose from (polyphonic tones),
- sound level: ca. 80 dB
- 5 sound volume adjustment levels.

Technical data

Frequency: 433 MHz
 Coding: million codes
 Operating range*: 150 m in open areas
 Optical signalling
 Sound level: max. 80 dB
 Protection class: III

Technical data (BELL PUSH)

Power supply: battery 3 V type CR2032
 Operating temperature range: -20°C ÷ +35°C
 Protection level: IP44
 Dimensions [mm]: 32 x 80 x 13
 Weight [g]: 28
 Colour: black

Technical data (DOORBELL)

Power supply: 2 x battery 1.5 V type AA
 Power consumption, stand-by 3 mA,
 sound 170 mA
 Operating temperature range: 0°C ÷ 35°C
 Protection level: IP20
 Dimensions [mm]: 100 x 100 x 28
 Weight [g]: 105
 Colour: black

Wireless battery-operated doorbell CLASSIC

ST-901



Description

- ideal as a doorbell, an indoor paging device or personal alarm,
- useful at home, in a restaurant, hotel or in an office or for people requiring care,
- does not require doorbell installation,
- useful call optical signalling e.g. for a person who is partially deaf,
- doorbell and doorbell push battery-powered,
- radio transmission (frequency 433 MHz),
- operation range*: 100 m in an open area,
- coding: 256 codes (code default setting without changing possibility),
- designed not to operate in changeable weather conditions,
- 3 sounds and melodies to choose,
- volume level: max. 80 dB.

Technical data

Frequency: 433 MHz
 Coding: 256 codes
 Operation range*: 100 m in an open area
 Sound: 3 melodies to choose from
 Call optical signalling
 Sound level: max. 80 dB
 Protection level: IP20
 Protection class: III

Technical data (BELL PUSH)

Power supply: battery 12 V, type 23A
 Operating temperature range: -20°C ÷ +35°C
 Dimensions [mm]: 84 x 42 x 17
 Weight [g]: 30
 Colour: white

Technical data (DOORBELL)

Power supply: 2 x battery 1,5 V, type: AAA
 Power consumption: stand-by 0,4 mA,
 sound 75 mA
 Operating temperature range: 0°C ÷ 35°C
 Dimensions [mm]: 99 x 53 x 32
 Weight [g]: 67
 Colour: white

* The given range concerns opened area i.e. perfect conditions without obstacles. If between the transmitter and the receiver obstacles are found, range decrease can be expected depending on the following: wood and plaster from 5 to 20%, brick from 20 to 40%, armed concrete from 40 up to 80%. As for metallic obstacles the application of radio system is not recommended due to an enormous operation range decrease. Also overhead and underground power lines have a negative influence on the operation range as well as transmitters of the GSM network placed in a short distance of devices.

Wireless battery-operated doorbell DANCE

ST-905

Description

- perfect as a doorbell, an internal paging device or a personal alarm device
- useful at home, in a restaurant, a hotel, a company office or for people needing care,
- doorbell installation is not required,
- optical signalling useful for e.g. people with impaired hearing,
- battery-operated doorbell and push button
- radio transmission (433 MHz frequency),
- operating range in open space: 150 m *
- encoding: million codes,
- possibility of programming additional buttons on your own,
- push button designed to work in variable weather conditions (IP44),
- 10 tones to chose from (polyphonic tones),
- **loudness level: max. 90 dB,**
- smooth volume adjustment.

Technical data

Frequency: 433 MHz
 Operating range*: 150 m in open areas
 Coding: million codes
 Sound level: max. 90 dB
 Protection class: III

Technical data (BELL PUSH)

Power supply: battery 3 V type CR2032,
 Operating temperature range: -20°C ÷ +35°C
 Protection level: IP44
 Dimensions [mm]: 40 x 78 x 20
 Weight [g]: 26
 Colour: white

Technical data (DOORBELL)

Power supply: 3 x battery 1.5 V type AA
 Power consumption, stand-by 3.5 mA,
 sound 170 mA
 Operating temperature range: 0°C ÷ 35°C
 Protection level: IP20
 Dimensions [mm]: 80 x 130 x 30
 Weight [g]: 123
 Colour: white



Wireless battery-operated doorbell TANGO

ST-910

Description

- perfect as a doorbell, an internal paging device or a personal alarm device
- useful at home, in a restaurant, a hotel, a company office or for people needing care,
- doorbell installation is not required,
- optical signalling useful for e.g. people with impaired hearing,
- battery-operated doorbell and push button
- radio transmission (433 MHz frequency),
- operating range: 100 m in the open area,
- encoding: 256 (factory set code, unchangeable)
- push button designed to work in variable weather conditions (IP44),
- 36 tones to chose from (polyphonic tones),
- loudness level: max. 80 dB,
- 4 sound volume adjustment levels.

Technical data

Frequency: 433 MHz
 Coding: 256 codes
 Sound level: max. 80 dB
 Protection class: III

Technical data (BELL PUSH)

Power supply: battery 3 V type CR2032
 Protection level: IP44
 Operating temperature range: -20°C ÷ +35°C
 Dimensions [mm]: 45 x 80 x 23
 Weight [g]: 36
 Colour: white + black

Technical data (DOORBELL)

Power supply: 3 x battery 1.5 V type AAA
 Power consumption, stand-by 0,5 mA,
 sound 25 mA
 Protection level: IP20
 Operating temperature range: 0°C to 35°C
 Dimensions [mm]: 58 x 100 x 27
 Weight [g]: 63
 Colour: white + black



* The given range concerns opened area i.e. perfect conditions without obstacles. If between the transmitter and the receiver obstacles are found, range decrease can be expected depending on the following: wood and plaster from 5 to 20%, brick from 20 to 40%, armed concrete from 40 up to 80%. As for metallic obstacles the application of radio system is not recommended due to an enormous operation range decrease. Also overhead and underground power lines have a negative influence on the operation range as well as transmitters of the GSM network placed in a short distance of devices.

Wireless battery-operated doorbell PICO

ST-915



Description

- perfect as a doorbell, an internal paging device or a personal alarm device
- useful at home, in a restaurant, a hotel, a company office or for people needing care,
- doorbell installation is not required,
- optical signalling useful for e.g. people with impaired hearing,
- radio transmission (433 MHz frequency),
- operating range*: 80 m in the open area,
- button permanently assigned to a given doorbell,
- push button designed to work in variable weather conditions (IP44),
- 20 different tones and melodies,
- high loudness level: max. 85 dB,
- 2-level sound volume adjustment

Technical data

Frequency: 433 MHz
Loudness level ca. 85 dB
Protection class: III

Technical data (BELL PUSH)

Power supply: 1 x battery 3 V type: CR2032
Button protection rating: IP44
Operating temperature range: -20°C ÷ +35°C
Dimensions [mm]: 34 x 79 x 20
Weight [g]: 39
Colour: black + silver

Technical data (DOORBELL)

Power supply: 2 x battery 1,5 V type: AA
Power consumption, stand-by: 0,5 mA, sound 20 mA
Protection level: IP 20
Operating temperature: 0°C ÷ 35°C
Dimensions [mm]: 75 x 118 x 35
Weight [g]: 79
Colour: black

Wireless battery-operated doorbell TWIST

ST-918



Description

- ideal as a doorbell, an indoor paging device or personal alarm,
- useful at home, in an office or for people requiring care,
- does not require doorbell installation,
- easy installation,
- doorbell and doorbell push battery-powered,
- radio transmission (frequency 433 MHz),
- operation range*: 80 m in an open area,
- coding: 256 codes (code default setting without changing possibility),
- designed not to operate in changeable weather conditions,
- sound: 15 melodies to choose (polyphonic sounds),
- volume level: max. 80 dB.

Technical data

Transmission: radio
Frequency: 433,92 MHz
Operation range*: 80 m in an open area
Coding: 256 codes
Sound level: max. 80 dB
Protection level: IP20
Protection class: III

Technical data (BELL PUSH)

Power supply: battery 12 V, type 23A
Operating temperature range: -20°C ÷ +35°C
Weight [g]: 30
Dimensions [mm]: 80 x 40 x 17
Colour: white + blue

Technical data (DOORBELL)

Power supply: 3 x battery 1,5 V, type AA
Power consumption: stand-by 0,5 mA, sound 200 mA
Operating temperature range: 0°C ÷ +35°C
Weight [g]: 140
Dimensions [mm]: 98 x 82 x 31
Colour: white + blue

Wireless battery-operated doorbell SUITA

ST-919

Description

- ideal as a doorbell, an indoor paging device or personal alarm,
- useful at home, in an office or for people requiring care,
- does not require doorbell installation,
- easy installation,
- doorbell and doorbell push battery-powered,
- radio transmission (frequency 433 MHz),
- operation range*: 80 m in an open area,
- coding: 256 codes (code default setting without changing possibility),
- designed not to operate in changeable weather conditions,
- sound: 15 melodies to choose (polyphonic sounds),
- volume level: max. 80 dB.

Technical data

Transmission: radio
 Frequency: 433,92 MHz
 Operation range*: 80 m in an open area
 Coding: 256 codes
 Sound level: max. 80 dB
 Protection level: IP20
 Protection class: III



Technical data (BELL PUSH)

Power supply: battery 12 V, type 23A
 Operating temperature range: -20°C ÷ +35°C
 Weight [g]: 30
 Dimensions [mm]: 80 x 40 x 17
 Colour: white + blue

Technical data (DOORBELL)

Power supply: 3 x battery 1,5 V, type AA
 Power consumption: stand-by 0,5 mA,
 sound 200 mA
 Operating temperature range: 0°C ÷ +35°C
 Weight [g]: 140
 Dimensions [mm]: 79 x 116 x 32
 Colour: white + blue

* The given range concerns opened area i.e. perfect conditions without obstacles. If between the transmitter and the receiver obstacles are found, range decrease can be expected depending on the following: wood and plaster from 5 to 20%, brick from 20 to 40%, armed concrete from 40 up to 80%. As for metallic obstacles the application of radio system is not recommended due to an enormous operation range decrease. Also overhead and underground power lines have a negative influence on the operation range as well as transmitters of the GSM network placed in a short distance of devices.

Entry signalling device with wireless motion sensor

NT-320

The NT-320 kit includes a ringtone (receiver) and a wireless motion sensor (transmitter). The sounder notifies about the presence of a person in a given room (e.g. when someone enters the store) or alerts the user when unauthorised persons enter restricted areas. It is a perfect device not only for homes but also for many facilities such as stores, hotel lobbies, warehouses, offices, etc. – any place where staff may be present in a different room than the customers who have just entered. The maximum distance between the transmitter and the receiver is 100 m*. When the sensor detects motion, it sends a radio signal to the receiver. The receiver starts playing the selected sound or melody. The motion sensor has also a second operation mode, in which it operates independently, without the receiver. When the sensor detects motion, it generates a loud sound, acting as a simple mini-alarm.



Description

- ideal as a system for notifying that somebody has entered a given room e.g. in shops, warehouses etc.,
- **wireless movement sensor operating independently (independent mini-alarm function),**
- optical operation indication
- battery-powered transmitter and receiver (transmitter with optional grid power supply),
- 32 tones and melodies to choose from (in the receiver),
- loudness level: max. 85 dB in the receiver and 90 dB in the transmitter,
- 5-level sound volume adjustment in the receiver,
- operating range*: 100 m in open areas.

Technical data

Frequency: 433 MHz
 Sound level: 85 dB (transmitter), 90 dB (doorbell)
 Protection class: III

Technical data (TRANSMITTER)

Power supply: 3 x battery 1,5 V, type AA
 Power consumption: stand-by 0,1 mA,
 Transmitting: 18 mA, sound: 110 mA
 Protection level: IP20
 Operating temperature range: 0°C ÷ +35°C
 Dimensions [mm]: 82 x 55 x 57
 Weight [g]: 81
 Colour: white

Technical data (DOORBELL)

Power supply: 2 x battery 1,5 V, type AA
 Power consumption: stand-by 0,5 mA,
 sound 40 mA
 Protection level: IP20
 Operating temperature range: 0°C ÷ 35°C
 Dimensions [mm]: 55 x 95 x 23
 Weight [g]: 48
 Colour: white

* The given range concerns opened area i.e. perfect conditions without obstacles. If between the transmitter and the receiver obstacles are found, range decrease can be expected depending on the following: wood and plaster from 5 to 20%, brick from 20 to 40%, armed concrete from 40 up to 80%. As for metallic obstacles the application of radio system is not recommended due to an enormous operation range decrease. Also overhead and underground power lines have a negative influence on the operation range as well as transmitters of the GSM network placed in a short distance of devices.

Description

- 10-module-doorbell plate for surface mounting,
- possibility to switch off individual modules,
- big nameplates, which simultaneously serve as doorbell pushes,
- for mounting in low-voltage installations (up to 24 V),
- available versions: illuminated (27/10), not illuminated (30/10).

Technical data

Weight [g]: 370
 Dimensions [mm]: 320 x 90 x 18
 Colours: white, gray
 Bulk package [pcs.]: 10

Doorbell plate

Type: 27/10 (10 doorbell pushes, illuminated),
 Type: 30/10 (10 doorbell pushes, not illuminated)



Bittorf **BIM**
 ELEKTROTECHNIK

Description

- doorbell plate for surface mounting,
- big nameplates, which simultaneously serve as doorbell pushes,
- for mounting in low-voltage installations (up to 24 V),
- available versions: not illuminated (30), illuminated (32).

Technical data

Weight [g]: 36
 Dimensions [mm]: 90 x 32 x 18
 Colours: white, gray
 Bulk package [pcs.]: 20

Doorbell plate

Type: 30 (not illuminated), Type: 32 (illuminated)



Bittorf **BIM**
 ELEKTROTECHNIK

exta free

exta life

supla

exta

ledix

konekto

sundi

Doorbell plate

Type: 33/1, Type: 33/2, Type: 33/3



white

Description

- plastic doorbell plate for surface mounting,
- big nameplates, which simultaneously serve as doorbell pushes,
- for mounting in low-voltage installations (up to 24 V),
- available versions: with 1 doorbell push (33/1), with 2 doorbell pushes (33/2), with 3 doorbell pushes (33/3).



brown

Technical data

Weight [g]: 25 (33/1), 37 (33/2), 51 (33/3)
 Dimensions [mm]: 85 x 46 x 17 (33/1),
 85 x 70 x 17 (33/2), 85 x 94 x 17 (33/3)
 Colours: white, brown
 Bulk package [pcs.]: 20

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Doorbell plate

Type: 25



Description

- plastic doorbell plate for surface mounting,,
- nameplate,
- for mounting in low-voltage installations (up to 24 V),

Technical data

Weight [g]: 25
 Dimensions [mm]: 90 x 50 x 15
 Colour: white
 Bulk package [pcs.]: 20

Bittorf *BIM*
ELEKTROTECHNIK

Contact switch for doors and windows

Type: 1069



Description

- contact switch for closing the respective low voltage circuit (lighting, bell) when opening doors, windows, etc.

Technical data

Weight [g]: 22
 Dimensions [mm]: 90 x 30 x 30
 Colour: black
 Bulk package [pcs.]: 40

Bittorf *BIM*
ELEKTROTECHNIK

Doorbell transformer

Type: 70 (8 V / 1 A), Type: 71 (12 V / 0,5 A), Type: 72 (12 V / 1 A)
 Type: 74 (8 V / 2 A), Type: 76 (12 V / 1,5 A), Type: 78 (8 V / 1,5 A)

Description

- doorbell transformer for installation on a TH-35 rail,
- integrated thermoelement for short-circuit protection in form of a thermistor,
- sealed inner structure,
- casing height of the rail: 60 mm, width: 2 modules = 35 mm,
- clamps for surface installation included in the scope of delivery.

Technical data

Type:	70	71	72	74	76	78
Nominal supply voltage:	220 ÷ 240 V AC					
Nominal secondary voltage:	8 V AC	12 V AC	12 V AC	8 V AC	12 V AC	8 V AC
Nominal secondary current:	1 A	0,5 A	1 A	2 A	1,5 A	1,5 A
Dimensions:	90 x 35 x 60 mm					
Weight:	0,34 kg	0,33 kg	0,35 kg	0,36 kg	0,36 kg	0,35 kg



Bittorf **BIM**
ELEKTROTECHNIK

Doorbell transformer, with switch

Type: 70 Sch (8 V / 1 A), Type: 71 Sch (12 V / 0,5 A), Type: 72 Sch (12 V / 1 A)
 Type: 74 Sch (8 V / 2 A), Type: 76 Sch (12 V / 1,5 A), Type: 78 Sch (8 V / 1,5 A)

Description

- doorbell transformer with switch for installation on a TH-35 rail,
- integrated thermoelement for short-circuit protection in form of a thermistor,
- sealed inner structure
- casing height of the rail: 60 mm, width: 2 modules = 35 mm,
- clamps for surface installation included in the scope of delivery.

Technical data

Type:	70 Sch	71 Sch	72 Sch	74 Sch	76 Sch	78 Sch
Nominal supply voltage:	220 ÷ 240 V AC					
Nominal secondary voltage:	8 V AC	12 V AC	12 V AC	8 V AC	12 V AC	8 V AC
Nominal secondary current:	1 A	0,5 A	1 A	2 A	1,5 A	1,5 A
Dimensions:	90 x 35 x 60 mm					
Weight:	0,35 kg	0,34 kg	0,36 kg	0,37 kg	0,37 kg	0,36 kg



Bittorf **BIM**
ELEKTROTECHNIK

Doorbell transformer

Type: 90 (4 V / 1 A, 6 V / 1 A, 8 V / 1 A)

Type: 94 (4 V / 1,2 A, 8 V / 1,2 A, 12 V / 0,85 A)



Description

- doorbell transformer for installation on a TH-35 rail,
- integrated thermoelement for short-circuit protection in form of a thermistor,
- sealed inner structure,
- casing height of the rail: 60 mm, width: 3 modules = 52 mm,
- clamps for surface installation included in the scope of delivery.

Technical data

Type:	90			94		
Nominal supply voltage:	220 ÷ 240 V AC					
Nominal secondary voltage:	4 V AC	6 V AC	8 V AC	4 V AC	8 V AC	12 V AC
Nominal secondary current:	1 A	1 A	1 A	1,2 A	1,2 A	0,85 A
Dimensions:	108 x 52 x 60 mm					
Weight:	0,570 kg			0,575 kg		



Doorbell transformer, with switch

Type: 90 Sch (4 V, 6 V, 8 V / 1 A)

Type: 94 Sch (4 V / 1,2 A, 8 V / 1,2 A, 12 V / 0,85 A)



Description

- doorbell transformer with switch for installation on a TH-35 rail,
- integrated thermoelement for short-circuit protection in form of a thermistor,
- sealed inner structure
- casing height of the rail: 60 mm, width: 3 modules = 52 mm,
- clamps for surface installation included in the scope of delivery.

Technical data

Type:	90 Sch			94 Sch		
Nominal supply voltage:	220 ÷ 240 V AC					
Nominal secondary voltage:	4 V AC	6 V AC	8 V AC	4 V AC	8 V AC	12 V AC
Nominal secondary current:	1 A	1 A	1 A	1,2 A	1,2 A	0,85 A
Dimensions:	108 x 52 x 60 mm					
Weight:	0,580 kg			0,585 kg		



Doorbell transformer

Type: 46 (12 V / 2 A)



Bittorf *BIM*
ELEKTROTECHNIK

Description

- doorbell transformer with switch for installation on a TH-35 rail,
- integrated thermoelement for short-circuit protection in form of a thermistor,
- sealed inner structure
- casing height of the rail: 60 mm, width: 3 modules = 52 mm,
- clamps for surface installation included in the scope of delivery.

Technical data

Type:	46	46 Sch
Nominal supply voltage:	220 ÷ 240 V AC	
Nominal secondary voltage:	12 V AC	
Nominal secondary current:	2 A	
Dimensions:	108 x 52 x 60 mm	
Weight:	0,570 kg	0,575 kg

Doorbell transformer, with switch

Type: 46 Sch (12 V / 2 A)



Doorbell transformer

Type: 114 (4 V, 6 V, 8 V / 0,5 A)



Description

- doorbell transformer with surface-mounted plastic casing.

Technical data

Type:	114		
Nominal supply voltage:	230 V AC		
Nominal secondary voltage:	4 V AC	6 V AC	8 V AC
Nominal secondary current:	0,5 A		
Dimensions:	117 x 62 x 36 mm		
Weight:	0,420 kg		

Bittorf *BIM*
ELEKTROTECHNIK

Description

- doorbell transformer with flush-mounted plastic casing and enclosed junction box ø 80 mm.

Technical data

Type:	3548		
Nominal supply voltage:	230 V AC		
Nominal secondary voltage:	4 V AC	8 V AC	12 V AC
Nominal secondary current:	1 A	1 A	0,63 A
Dimensions:	100 x 100 x 60 mm		
Weight:	0,655 kg		

Bittorf *BIM*
ELEKTROTECHNIK

Doorbell transformer

Type: 3548 (4 V / 1 A, 8 V / 1 A, 12 V / 0,63 A)



Transformer

Type: 8010 (3 V, 5 V, 8 V / 2 A), Type: 8012 (4 V, 8 V, 12 V / 2 A)
 Type: 8013 (8 V, 14 V, 20 V / 2 A), Type: 8024 (8 V, 16 V, 24 V / 2 A)

Description

• transformer with surface-mounted plastic casing.



Technical data

Type:	8010	8012	8013	8024								
Nominal supply voltage:	220 ÷ 240 V AC											
Nominal secondary voltage [V AC]:	3	5	8	4	8	12	8	14	20	8	16	24
Nominal secondary current: 2 A	2 A											
Dimensions:	120 x 70 x 55 mm											
Weight:	0,830 kg				0,910 kg				0,910 kg			



Transformer

Type: 8015 (4 V, 6 V, 8 V / 0,7 A)
 Type: 8016 (4 V, 6 V, 8 V / 0,7 A)

Description

• transformer with surface-mounted plastic casing for short-term loads.



Technical data

Type:	8015			8016		
Nominal supply voltage:	110 ÷ 130 V AC			220 ÷ 240 V AC		
Nominal secondary voltage:	4 V AC	6 V AC	8 V AC	4 V AC	6 V AC	8 V AC
Nominal secondary current:	0,7 A					
Dimensions:	78 x 50 x 32 mm					
Weight:	0,240 kg					



Transformer

Type: 8017 (4 V, 6 V, 8 V / 1 A)
 Type: 8018 (4 V, 6 V, 8 V / 1 A)

Description

• transformer with surface-mounted plastic casing for short-term loads.



Technical data

Type:	8017			8018		
Nominal supply voltage:	110 ÷ 130 V AC			220 ÷ 240 V AC		
Nominal secondary voltage:	4 V AC	6 V AC	8 V AC	4 V AC	6 V AC	8 V AC
Nominal secondary current:	1 A					
Dimensions:	97 x 60 x 32 mm					
Weight:	0,260 kg					



