



SIGNALLING 2015/2016

Edition 1.0

GROTHE
URMET|GROUP



SET MISTRAL 600

LED-flashlight

17 polyphonic melodies

12 removeable design-inlays

crystal stable 500 m range

marking of nameplates

waterproof radio transmitter IP54

LED-flashlight

continuously adjustment of volume

four-level slide switch for call-signal-adjustment

500 mJ-flashlight

500 m

500 m

BM 03.0 108° 15m

SET MISTRAL 200

SET MISTRAL 300 BM

MISTRAL 400M
Mains-powered radio
chime receiver with
17 polyphonic melodies,
500 m range



MISTRAL 600



MISTRAL 600E
here with an interchangeable
motif



MISTRAL SE 03.0-s



MISTRAL SE 03.0



MISTRAL BM 03.0



MISTRAL 300M(E) BM



NA 9V-GPE

The deluxe radio chime with a huge range. Satisfies the utmost requirements for functionality and individual design

Functions

- 17 appealing polyphonic melodies (including 2/3 tone, Westminster, classical, pan pipes, kettledrum, bell, dog)
- User-friendly selection of melodies and two alternately flashing super-bright white LEDs. easyTIP system
- Alarm function with DIN emergency call tone for special situations
- Distance booster: any desired range can be achieved by linking several transmitter/receiver combinations
- Water-proof combination transmission button (IP54) with inscribable nameplate and LED transmission indicator
- 17 different paging signals for optimum access control, max. 20 transmitters can be memorised
- Central paging: several receivers can be controlled from a single transmitter
- Individual paging: each receiver can be controlled individually from additional transmitters
- Matrix paging: combined central and individual paging possible
- Transmitter/Receiver pre-programmed at the factory. Easy memorising of additional transmitters at the touch of a button. easyTIP system
- Optical and acoustic LowBatt display for the batteries of the receiver AND of the transmitter
- 4-stage slide switch for paging signal setting (1-melody/flashing; 2-melody only; 3-flashing only; 4-mute)
- Individual design via 12 supplied glossy motif covers or your own „creations“ and high-quality acrylic sheet with real glass look

- Acrylic sheet lightly frosted on one side. According to installation, various effects can be obtained with this (depth of focus)

Installation

- Receiver: can be set up on a surface, hung up or screwed into place; transmitter: can be screwed into place or hung up with a clip
- Compatible with almost all intercom and doorbell systems (page forwarding as standard feature)
- Control unit easily accessible
- A neutral covering cap is enclosed for the transmitter especially for installation with page forwarding.

Technical data

- Range according to transmitter combination 500 m transmission frequency 868.35 MHz
- Walls, doors, metal parts etc. may significantly reduce the range!
- Where required, use distance booster through the installation of further radio sets
- Volume max. 83 dB(A), infinitely adjustable
- Receiver: batteries 4 x 1.5 V (alternatively, model LR14/C or with supplied adapter model LR6/AA, batteries not included in scope of delivery) or 8–12 V=~/~ (via socket or terminal)
- Transmitter: batteries 2 x 1.5 V (model LR03/AAA, included in scope of delivery) or 8–12 V= (via terminal)
- Typical battery service life: transmitter: 5–10 years, receiver: 5–10 years (when using model LR14/C batteries, otherwise approx. 1–2 years)
- Dimensions: receiver: 180 x 140 x 50 mm, transmitter 36 x 100 x 17 mm

Model	Order no.	Description
MISTRAL 600	43400	Radio chime set <ul style="list-style-type: none"> • See description above • Incl. transmitter Mistral SE 03.0-s anthracite) and 500 m range • Transmitter with batteries
Extension possibilities / Accessories		
MISTRAL 600E	43401	Radio chime receiver <ul style="list-style-type: none"> • 17 melodies/flashing LED • Distance booster • 12 design inlays • Range 500 m depend. on transmitter • 8–12 V=~/~ / Batt. 4 x 1.5 V (not included in scope of delivery)
MISTRAL SE 03.1	43440	Radio transmitter <ul style="list-style-type: none"> • Colour: painted silver/anthracite • for all Mistral chimes made since 2003 • 500 m range, 868.35 MHz • Page forwarding • can be connected with a dry contact or 8-12 V triggering signal • LED function indicator • Incl. batt. 2 x 1.5 V (model LR03/AAA-alkaline) • IP 54
MISTRAL SE 03.1	43441	Radio transmitter <ul style="list-style-type: none"> • Colour: white plastic • for all Mistral chimes made since 2003 • 500 m range, 868.35 MHz • Page forwarding • can be connected with a dry contact or 8-12 V triggering signal • LED function indicator • Incl. batt. 2 x 1.5 V (model LR03/AAA-alkaline) • IP 54
MISTRAL BM03.0	43445	Radio movement detector <ul style="list-style-type: none"> • incl. lithium battery 3V type CR123A or 8-12V=~/~ • For all Mistral Gongs made since 2003 • Max. surveillance range: 108° at 15m opt. range • Range can be precisely set using replaceable lenses (with articulated installation joint) • Walking test with LED display • Colour: White plastic • 69(B) x 124(H) x 54(D)mm • 500 m radio range outdoors; 868.35MH • Adjustable delay time from 3 to 60 sec • Incl. curtain lens and volumetric lens
MISTRAL 300M(E) BM	43315	Radio gong set (without hand transmitter) <ul style="list-style-type: none"> • Incl. receiver Mistral 300ME • incl. movement detector BM03.0 • Movement detector with battery • 69(B) x 153(H) x 54(D)mm • Indoor use only
NA 9V-GPE	43399	Mains adapter <ul style="list-style-type: none"> • Suitable for MISTRAL 600, 300 and transmitter • Incl. suitable plug • 9 VDC • Max. 0.5 A (4.5 W) • 1.75 m lead

The deluxe radio chime for „unlimited“ use

Functions

- Distance booster: You can get any range you like by linking several transmitter/receiver combinations
- 17 appealing polyphone melodies (2/3 tone, Westminster, pop, classical, special tone sequence for people with hearing difficulties etc.) and SILENCE function with LED indicator
- ALARM function with DIN emergency tone for special situations
- User-friendly selection of melodies and 500 mJ flashing light at the touch of a button. *easyTIP* system
- Water-proof combination transmitter button with nameplate and LED transmission indicator
- 17 different paging signals for optimum access control
- Central paging: several receivers can be controlled from a single transmitter
- Individual paging: each receiver can be controlled individually from additional transmitters
- Matrix paging: combined central, individual paging is possible
- Transmitter/Receiver pre-programmed at the factory.

Installation

- Receiver: can be set up on a surface, hung up or screwed into place; transmitter: can be screwed into place or hung up with a clip
 - Compatible with almost all intercom and doorbell systems (page forwarding as standard feature)
 - Control unit easily accessible
- #### Technical data
- Range: 500 m, transmission frequency: 868.35 MHz
 - Walls, doors, metal parts etc. may significantly reduce the range!
 - Where required, use distance booster through the installation of further radio sets.
 - Volume max. 86 dB(A), infinitely adjustable
 - Receiver: 4 x 1.5V (model LR14/C, alkaline baby cell, not in scope of delivery) or 8–12 V=~/~ (socket+terminal; reverse polarity protected)
 - receiver: 150 x 115 x 38 mm, transmitter: 35 x 96 x 16 mm

Model	Order no.	Description
MISTRAL 300M	43300	Radio chime set <ul style="list-style-type: none"> • White
MISTRAL 200M	43305	Radio chime set like MISTRAL 300 except: <ul style="list-style-type: none"> • No distance booster • 17 melodies • No flashing light • White • Range 500 m • 17 different paging signals • No input for 8–12 V=~/~
Accessories		
MISTRAL 300M E	43301	Radio chime receiver <ul style="list-style-type: none"> • 17 melodies/flashing light • Distance booster • Range 500 m • 8–12 V=~/~ / Batt. 4 x 1.5 V • White
MISTRAL SE 03.0	43441	Radio Transmitter <ul style="list-style-type: none"> • For all MISTRAL chimes since 2003 • Range: 500 m, 868,35 MHz • Page forwarding • White • LED function indicator • 2x1,5V batt. incl. (LR03/AAA-Alkaline) • IP 54
NA 9V-GPE	43399	Mains adapter <ul style="list-style-type: none"> • Suitable for receiver MISTRAL 300 (E) and transmitter • Incl. suitable plug • 9 VDC • Max. 0.5 A (4.5 W) • 1.75 m lead
MISTRAL 300M ws	43142	Radio Chime set <ul style="list-style-type: none"> • like receiver MISTRAL 300 (E) • acrylic door color white
MISTRAL 300M sw	43143	Radio Chime set <ul style="list-style-type: none"> • like receiver MISTRAL 300 (E) • acrylic door color black
MISTRAL 300M si	43144	Radio Chime set <ul style="list-style-type: none"> • like receiver MISTRAL 300 (E) • acrylic door color silver
MISTRAL 300M rt	43145	Radio Chime set <ul style="list-style-type: none"> • like receiver MISTRAL 300 (E) • acrylic door color red
MISTRAL 300M gn	43146	Radio Chime set <ul style="list-style-type: none"> • like receiver MISTRAL 300 (E) • acrylic door color green
MISTRAL 300M ws-si	43372	Radio Chime set <ul style="list-style-type: none"> • like receiver MISTRAL 300 (E) • acrylic door color white-silver



Hear the melodies on www.grothe.de or scan the QR-code with your smartphone.

Radio chime MISTRAL 210



Model	Order no.	Description
MISTRAL 210M	43303	Radio chime set like MISTRAL 300 except: <ul style="list-style-type: none"> • No distance booster • 17 melodies • No flashing light • Range 500 m • No input for 8–12 V=/~ • White

Radio chime MISTRAL 400



The deluxe 230 V radio chime is the mains-powered alternative for every room in your home.

Functions

- 17 appealing melodies (2/3 tone, Westminster, pop, classical, special tone sequence for people with hearing difficulties etc.) and SILENCE function with LED indicator
- ALARM function with DIN emergency tone for special situations
- User-friendly selection of melodies and LED flashing light at the touch of a button. *easyTIP* system
- Water-proof combination transmitter button with nameplate and LED transmission indicator
- 17 different paging signals for optimum access control
- Central paging: several receivers can be controlled from a single transmitter
- Individual paging: each receiver can be controlled individually from additional transmitters
- Matrix paging: combined central and individual paging is possible
- Transmitter/Receiver pre-programmed at the factory. Easy memorising of additional transmitters at the touch of a button. *easyTIP* system

Installation

- Receiver: can be plugged into EURO/earthed sockets; transmitter can be screwed into place or hung up with a clip
- Compatible with almost all intercom and doorbell systems (page forwarding as standard feature)

Technical data

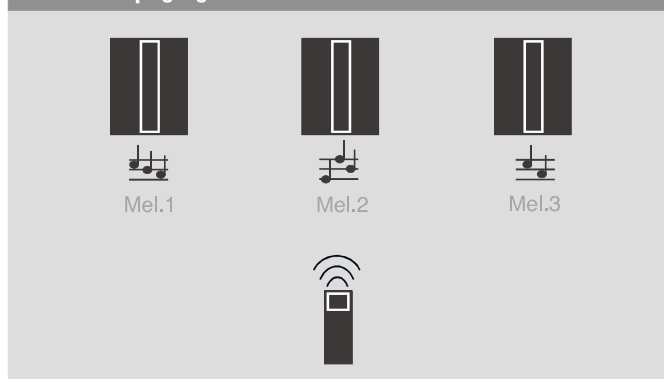
- Range: 500 m, transmission frequency: 868.35 MHz
- Walls, doors, metal parts etc. may significantly reduce the range!
- Use in conjunction with MISTRAL 300 and distance booster if necessary.
- Volume max. 80 dB(A) depending on tone sequence, now adjustable
- Receiver: 230 V~ / 50 Hz
- Transmitter: 1 x 12 V (model A23, LR03/AAA-Alkaline, included in scope of delivery, replacement batt. e.g. VARTA V23GA or Duracell MN21 in specialised dealer) or terminal for 8–12 V=
- Dimensions: receiver: 127 x 62 x 78 mm, transmitter: 36 x 100 x 17 mm

Model	Order no.	Description
MISTRAL 400M	43310	Mains-powered radio chime set <ul style="list-style-type: none"> • White
Accessories		
MISTRAL 400E	43311	Mains-powered radio chime receiver <ul style="list-style-type: none"> • 17 melodies/LED flashing light • 230V/Euro plug • Range: 500 m
MISTRAL SE 03.0	43441	Radio Transmitter <ul style="list-style-type: none"> • For all MISTRAL chimes since 2003 • Range: 500 m, 868,35 MHz • Page forwarding • White • LED function indicator • 2x1,5V batt. incl. (LR03/AAA-Alkaline) • IP 54

MISTRAL radio chime

Circuit overview

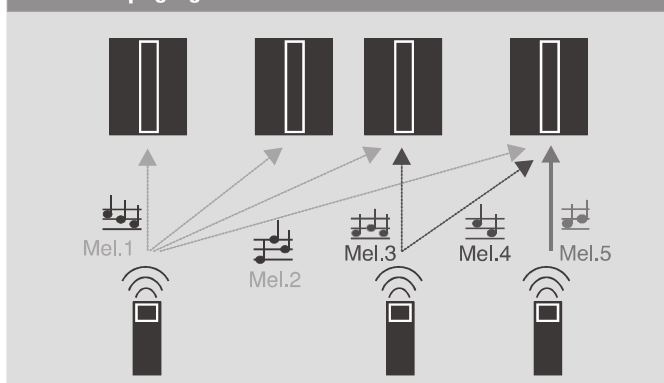
1. Central paging



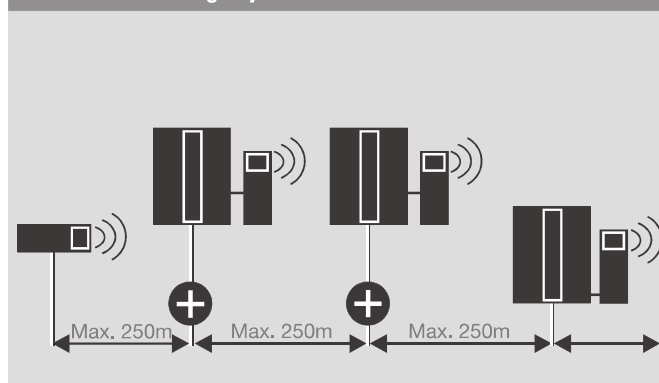
2. Individual paging



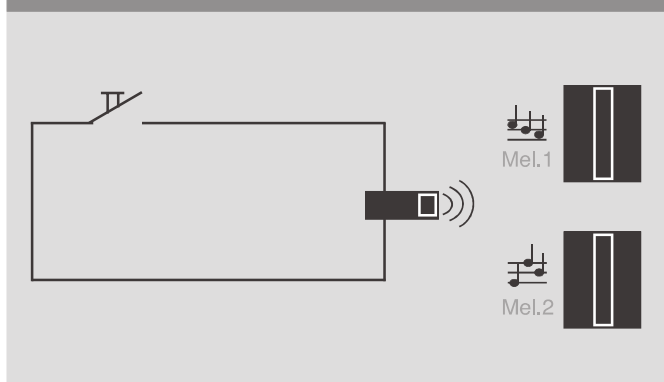
3. Matrix paging



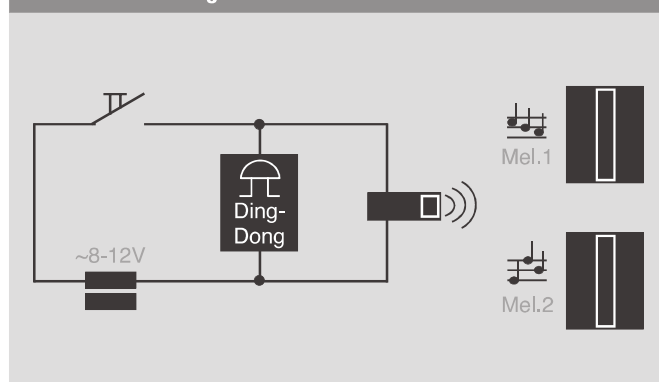
4. Call forwarding dry contact



5. Distance booster



6. Call forwarding AC



CROMA Serie



- ☐ User-friendly easyTIP control unit
- ☐ Optimal pre-assembly
- ☐ Multi-volt operation
- ☐ SILENCE function

In addition to the single tone “ding-dong” of the electromagnetic chimes, the electric chimes of the Croma series by Grothe offer you a large selection of melodies, so you can announce your guests in style. The call tones, the alarm function and also the silence function (single button muting) can be easily changed using the integrated easy-Tip unit behind the design element.

The 230V chime is ideal for mixed installations due to its integrated transformer, and also for installing during renovations, for example the present 230V installation in the hallway and from there to the front door a bell wire.

CROMA 100A

Multi-volt operation battery
4x 1.5V LR14 or 8-12V \approx ~

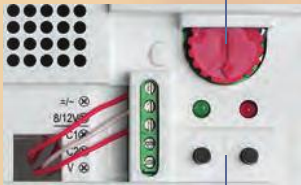
Chime with battery operation and standard function

3 Melodies

CROMA 50

17 polyphonic
melodies

Volume control




easyTIP



CROMA 230A



Multi-volt operation 8/12V \approx ~ or 230V~
integrated transformer VDE-tested 

CROMA 100A / 230A



CROMA 100A



CROMA 230A



CROMA 230A-a/w



CROMA 231A

The designer chime with a large selection of melodies and additional ALARM function – a „jewel“ in any room!

Functions


- 17 brilliant polyphone sounds (2/3 tone, Westminster, pop, special tone seq. for people with hearing difficulties, classical etc.)
- Switchable from melody to ALARM tone (optimal for use in combination with movement detectors in a shop, for example, when a melody should sound during the day and an ALARM tone at night)
- Volume adjustable up to max. 86 dB(A)
- 2 different paging signals for optimum access control
- SILENCE function (one-button mute function) with LED indicator
- User-friendly *easyTIP* control unit for all functions (fold-up cover)

Installation

- Operated with 4 x 1.5 V batteries (model LR14/C, alkaline baby cell, not in scope of delivery) or 8–12 V~/= (250 mA)
- Safe ring tone activation with potential-free contact or with 8–12 V~/=

- Can also be used for mixed installations and renovation (e.g. existing 8 V power supply from a customer-supplied bell transformer and triggering with a potential-free contact)
- Optimum pre-assembly (screw distances correspond to flush-mounting box diameter)
- Parallel circuit to further CROMA chimes or to electromechanical chimes possible

Technical data

- Voltages/Currents: see above (minimal standby losses for long battery life — in normal use approx. 3 years incl. LowBatt display)
- Max. 86 dB(A)
- 191 x 163 x 51 mm
- Temperature range +5°C to +40°C
- **VDE-tested** 
- Frosted semi-transparent 4 mm perspex pane; high-grade silver or grey-painted ABS plastic
- Protection rating IP 40

Model	Order no.	Description
CROMA 100A	43170	Electronic chime <ul style="list-style-type: none"> • Silver/Grey
NA 9V-GPE	43399	Mains adapter <ul style="list-style-type: none"> • Black • Disconnect angled plug and put 9 V directly to input terminal • 9 V= (DC) • Max. 0.5 A (4.5 W) • With 1.75 m lead

The deluxe electronic chime with a large selection of melodies and additional ALARM function — multi-volt operation up to 230 V makes it particularly attractive


Functions

- 17 brilliant polyphone sounds (2/3 tone, Westminster, pop, special tone sequence for people with hearing difficulties, classical etc.)
- Switchable from melody to ALARM tone (optimal for use in combination with movement detectors in a shop, for example, when a melody should sound during the day and an ALARM tone at night)
- Volume adjustable up to max. 86 dB(A)
- 2 different paging signals for optimum access control
- SILENCE function (one-button mute function) with LED indicator
- User-friendly *easyTIP* control unit for all functions (fold-up cover)

Installations

- Multi-volt operation with 8–12 V~/= (250 mA) or 230 V~ (15 mA)
- Safe ring tone activation with potential-free contact or with 8–12 V~/= or 230 V~ (opto-coupler input for max. safety)
- Thanks to integrated transformer, can also be used for mixed installations and renovation (e.g. 230 V power supply and triggering over 8 V of an existing bell transformer)
- Optimum pre-assembly (screw distances correspond to flush-mounting box diameter)
- Parallel circuit to further CROMA chimes or to electromechanical chimes possible

Technical data

- Voltages/Currents: see above (ecologically sound operation due to minimal standby losses)
- Max. 86 dB(A)
- 150 x 115 x 45 mm
- Temperature range +5°C to +40°C
- **VDE-tested** 
- High-grade, stable ABS plastic; white with silver-painted design
- Protection rating IP 40

Note

- If supplied with 230 V~ power, in accordance with the standard, an all-pole mains control switch must be provided in the building electrical installation!
- The integrated transformer is not suitable for this and is not designed for the operation of electrical door openers. If necessary, an additional transformer (e.g. GT 3148) must be supplied by the customer.
- When triggering with 230 V, use only suitable 230V buttons!

Model	Order no.	Description
CROMA 230A	43175	Electronic chime <ul style="list-style-type: none"> • White/Silver
CROMA 230A-a/w	43190	Electronic chime <ul style="list-style-type: none"> • function as above • White/Silver
CROMA 231A	43177	Electronic chime <ul style="list-style-type: none"> • function as above • Silver/Grey • 191 x 163 x 51 mm

Inexpensive battery-operated electronic chime with standard functions

Functions

- 3 sounds (2/3 tone, Westminster)
- Volume adjustable up to max. 83 dB(A)
- 3 different paging signals
- Continuous tone only in the case of continuous non-isolated impulse

Installation

- Operated with 4 x 1.5 V batteries (model LR14/C, alkaline baby cell, not in scope of delivery)

- Safe ring tone activation with potential-free contact or with 8–12 V~/=
- Optimum pre-assembly (screw distances correspond to flush-mounting box diameter)
- Parallel circuit to further CROMA chimes or to electromechanical chimes possible

Technical data

- Voltages/Currents: see above (minimal standby losses for long battery life - in normal use approx. 3 years)
- Max. 83 dB(A)
- Temperature range +5°C to +40°C

Model	Order no.	Description
CROMA 50	43150	Electronic chime <ul style="list-style-type: none"> • White ABS plastic with silver-grey design • 150 x 115 x 40 mm
CHIME 225A	43225	Electronic chime <ul style="list-style-type: none"> • Timeless design (ABS plastic cover) • 160 x 160 x 65 mm
CROMA 50 ws	43152	Electronic chime <ul style="list-style-type: none"> • like CROMA 50 • acrylic door color white
CROMA 50 sw	43153	Electronic chime <ul style="list-style-type: none"> • like CROMA 50 • acrylic door color black
CROMA 50 si	43154	Electronic chime <ul style="list-style-type: none"> • like CROMA 50 • acrylic door color silver
CROMA 50 rt	43155	Electronic chime <ul style="list-style-type: none"> • like CROMA 50 • acrylic door color red
CROMA 50 gn	43156	Electronic chime <ul style="list-style-type: none"> • like CROMA 50 • acrylic door color green



CROMA 50



CHIME 225A



CROMA 50 ws



CROMA 50 sw



CROMA 50 si



CROMA 50 rt



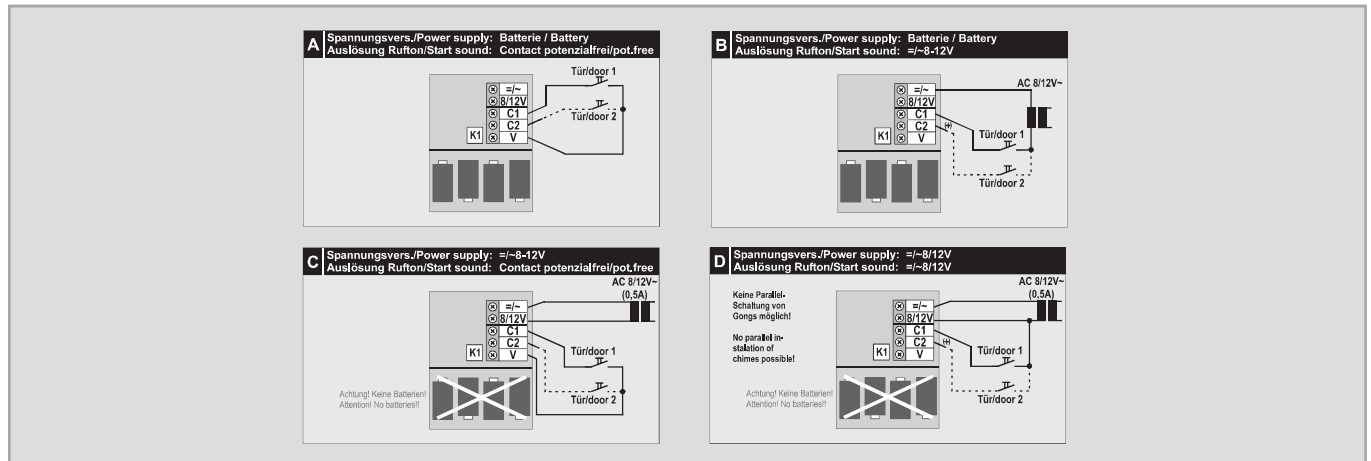
CROMA 50 gn



Hear the melodies on www.grothe.de or scan the QR-code with your smartphone.

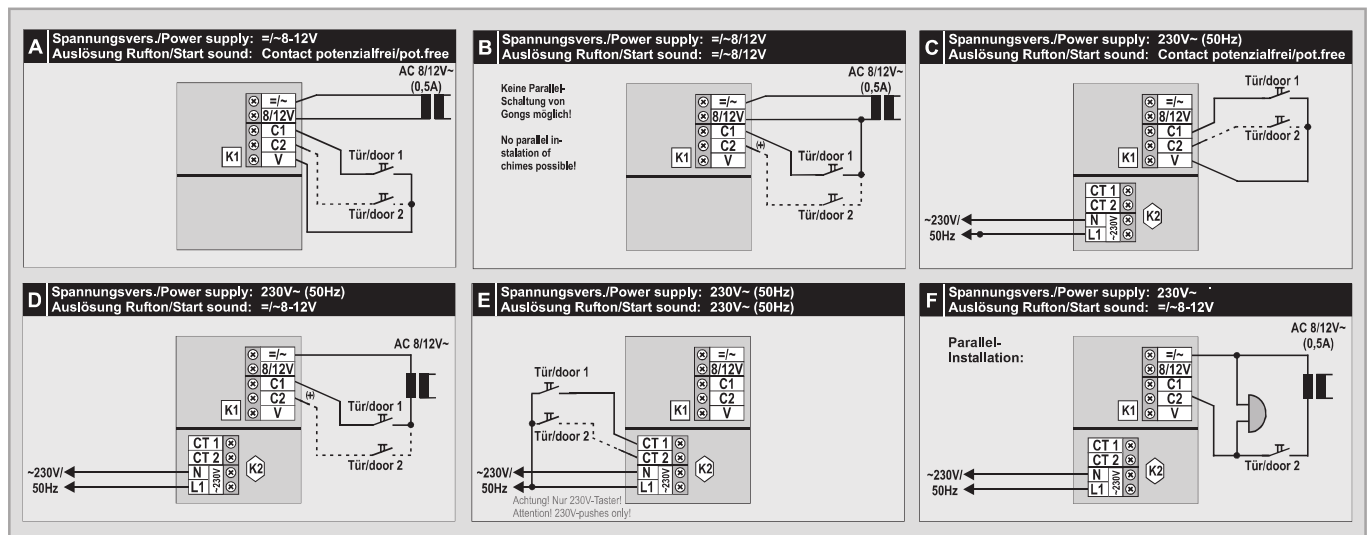
CROMA 100

Circuit overview



CROMA 230

Circuit overview



CROMA 50/Chime 225A

Circuit overview

