



## SIGNALLING- DOOR COMMUNICATION- SECURITY

### FOCUSED ITEMS CATALOGUE



INTERCOM AUDIO & VIDEO  
DOORBELLS

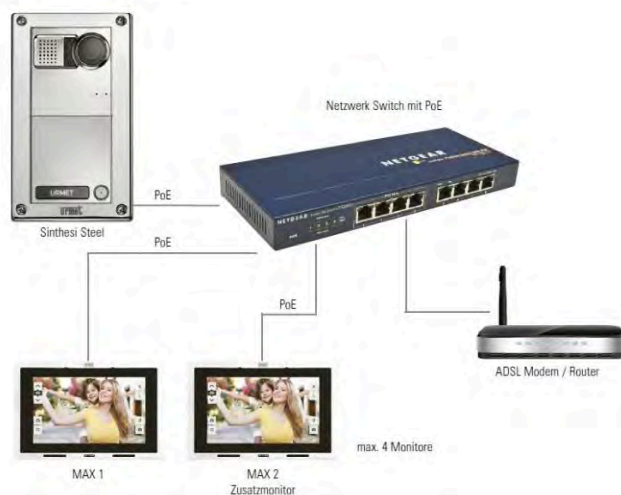
CCTV- VIDEO SURVEILLANCE  
ALARM- SYSTEMS

## SIGNALLING- DOOR COMMUNICATION INTERCOM AUDIO & VIDEO

### FOCUSED ITEMS CATALOGUE



The right audio and video intercom system must meet the requirements of both the users and the building. Our 2VOICE or serverless IPERCOM systems cover all needs.



## 2VOICE Video Basic Set 3 ALPHA SET 1783/733

Video intercom door phone Basic Kit for 3, 2-wire video bus system 2VOICE. 2Voice uses two wires throughout the system for quick and easy installation. Maximum flexibility: from single-family homes to larger building complexes.



### 2VOICE Video Basic Set 3 ALPHA SET 1783/733

Type: Video Basis Set 3 ALPHA SET 1783/733

•Item-No. 74778

- 1x video door loudspeaker module TL 1083/48, ALPHA series (order cover separately)
- 1x display module SM 1168/1, black
- 1x number key module SM 1168/46, black
- 1x video bus line rectifier NG 1083/20A
- The set can be expanded with additional modules, accessories and intercom stations

## Video intercom door station loudspeaker cover VT 1168/140

Video intercom phone base kit door station speaker cover, without bell button / name tag

This video door speaker cover is required if you have selected an Alpha series door station with speaker 1083/48 or TL 1060/48.

This cover does not have a bell button or a name tag and is therefore just a simple black colored cover for the module.



### Video intercom door station loudspeaker cover VT 1168/140

Type: VT 1168/140 •Item-No. 75314

- Product type: Video intercom door station speaker cover
- ALPHA series
- System compatibility: suitable for speaker VT 1083/48
- Module units: 1
- Dimensions: 125 x 90 x 12mm
- Color: black
- Device Type: Speaker Cover

## Door release module SM 1168/45

Door release module, ALPHA series for 2VOICE 2-wire video bus system and also for Ipercom technology. This module is a reader module that allows you to create an access control with a MIFARE® and MIFARE Plus® transponder key. The device has two different operating modes: as a door opener in the 2VOICE / IPercom system or independently as a separate door opener with a power supply of 12 V AC, 310 mA. Short assembly time of the module is ensured thanks to the plug system and pre-connected flat cable. The module has a high degree of protection IP66 and IK08.



### Door release module SM 1168/45

Type: M 1168/45 • Art.-Nr. 75343

- Door release module
- ALPHA series
- 2VOICE technology
- For transponder keys 1125/53
- Color: black
- Time setting: 0 - 99 seconds
- Door release contact: switching contact max 30 V, 3.5 A
- Modular device

## Set of transponder keys NS 1125/53

Door release module SM 1168/45 transponder key. MIFARE Plus® technology This transponder key is equipped with MIFARE Plus technology and allows you to conveniently open the door through the Alpha door station. The transponder key is suitable for release module 1168/45.



### A set of transponder keys NS 1125/53

Type: NS 1125/53 • Art.-Nr. 75391

- System compatibility: suitable for SM 1168/45 and 1168/45W
- Product type: MIFARE PLUS® transponder key set
- ALPHA series
- Packaging: 10 pcs
- Color: black
- Device type: transponder key





IPerCom offers scalable convenience for modern digital buildings.

The IP system meets the increased requirements for residential communications and security by integrating a video intercom phone system, video surveillance, burglary protection and access control. Complex management via the server is not necessary and thus saves a lot of installation work. Central hardware upgrades also reduce time and money.

# SETS ON NETWORK TECHNOLOGY

**BASIC SET INTERCOM (EXTENDABLE)** The Expandable Basic Kit is easy to install and ready to use. The modular ALPHA door station can be expanded at any time and offers options such as call forwarding, video surveillance, access control and disability solutions.



Type	Set 1060/643
Item No	74456
Description	<b>Basis Set IPerCom (expandable)</b>
1 x Door station Serie ALPHA	<ul style="list-style-type: none"><li>• 1 Modular</li><li>• Wide angle color camera</li><li>• Cover with bell button/name tag</li><li>• Recessed box and installation accessories included</li></ul>
1 x PoE-Switch	<ul style="list-style-type: none"><li>• 8 ports including 4 PoE ports</li><li>• 10/100Mbps</li></ul>
1 x Video monitor VOG 7	<ul style="list-style-type: none"><li>• 7" touch screen</li><li>• Resolution 1024 x 600 p</li><li>• Viewing angle 160° / 160°</li><li>• Wall mounting</li><li>• Installation on a round box</li><li>• Dimensions: 138 x 212 x 24 mm</li></ul>



VT 1060/48, TL 1168/141, UP 1145/51 ja RA 1168/61



VM 1761/31



IP 1039/44

## BASIS SET IPERCOM

With the MIKRA 2 door station included in the basic set, door communication becomes digital. The set is ready for immediate use via plug and play, and programming can be done quickly thanks to the software's high-quality interface.



Types	Set 1060/633
Item No	74455
Description	<b>Basis Set IPerCom</b>
1 x Door station Serie MIKRA 2	<ul style="list-style-type: none"><li>• Wide angle color camera</li><li>• Vandal-resistant ZAMAK die-cast alloy housing</li><li>• With bell button / name tag, with backlight</li></ul>
1 x PoE-Switch	<ul style="list-style-type: none"><li>• 8 ports including 4 PoE ports</li><li>• 10/100Mbps</li></ul>
1 x Videomonitor VOG 7	<ul style="list-style-type: none"><li>• 7" touch screen</li><li>• Resolution 1024 x 600 p</li><li>• Viewing angle 160° / 160°</li><li>• Wall mount</li><li>• Installation on a round box</li><li>• Dimensions: 138 x 212 x 24 mm</li></ul>



VT 1060/21



VM 1761/31



IP 1039/44



# PREIS LEISTUNGS SIEGER



2 Adern

2-Wire system



4 x

Up to 4 indoor stations



4 x

Expandable to up to 4 housing units



2

2 integrated opening options for door and gate



Wide angle camera

Vertical 92° - Horizontal 113°

## Expansion options

(products are not included)

Call forwarding, video surveillance, access control and installation with a recessed box



## 2-WIRE PRIVATE HOME VIDEO INTERCOM SYSTEM SET

### SET 1730/501

Item No. 74340

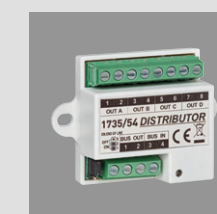
- Video door station 1730/51
- Room inside monitor 7" Soft Touch 1730/1
- Power source 1730/100

A practical video intercom phone system with a range of expansion options. The basic version can be expanded up to 4 living spaces. The 2-wire system allows you to use existing cable installations so you can easily retrofit. The system can be flexibly expanded with various additional modules such as call forwarding, access control and video surveillance.

Type	SET 1730/501
Item NO.	74340
Description	<b>Video intercom phone system kit</b>
1 x Door station	<ul style="list-style-type: none"> <li>• Vandal-resistant ZAMAK die-cast alloy housing</li> <li>• With bell button / name tag, with backlight</li> </ul>
1 x Power source	<ul style="list-style-type: none"> <li>• Attachment to DIN rail (5 TE)</li> <li>• New installation or expansion</li> </ul>
1 x Video monitor	<ul style="list-style-type: none"> <li>• 7" touch screen</li> <li>• Soft Touch</li> </ul>



## Accessories



### Video splitter

VV 1735/54

:fW @a 74352



### Power source

NG 1730/100

:fW .Na 74346



### Call routing module

VZ 1730/67

:fW @a . 74344



### Access control module

VZ 1730/65

:fW @a ž 74345



### A set of transponder keys

NS 1730/105

Item.No .: 74349



### Additional monitor

VM 1730/1

Item.No .: 74341



### Hands- free phone

HT 1730/2

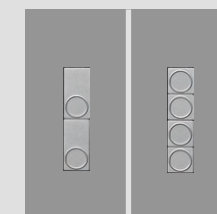
Item.No .: 74343



### Additional door station

TS 1730/51

Item.No .: 74342



### Buttons

KT 1730/102 (2KT)

Art.-Nr. 74347

KT 1730/104 (4KT)

Item.No .: 74348



### UP recessed box

UP 1730/60

Item.No .: 74351



# note 2

## ALL IN THE PRICE SET ONE AND TWO FAMILY RESIDENCE



1 to 2



family house

The video intercom phone system set is ideal for completeness solution with integrated access control, calls with routing and video surveillance camera connection options and YOKIS with smart home.



## SET 1723/95



### Video intercom phone system set single-family house 2-wire|

#### Note 2

Type: SET 1723/95 • Item.No. 74513

The single-family house set consists of:

- 1 x MIKRA door station
- 1 x VMODO 7-inch video monitor (with integrated call forwarding)
- 1 x system power supply
- 1 x inductance
- 6 x MIFARE® transponder keys
- Installation accessories



6 proximity keys



## SET 1723/96



### Videophone system kit two-family house 2-wire |

#### Note 2

Type SET 1723/96 • Item No. 74514

The two-family house set consists of:

- 1 x MIKRA door station
- 2 x VMODO 7" video monitors (with integrated call forwarding)
- 1 x system power supply
- 1 x inductance
- 12 x MIFARE® transponder keys
- Installation accessories



12 proximity keys







# 2VOICE

## EXPANDABLE COMFORT SETS

### Modern technology gesture control and with an expandable system

If the set includes a modern VOG 5W, all options are open to the customer. You can also connect here if you wish integrated into call forwarding and YOKIS for Smart Home also video cameras. Thank you You can get a set for 2Voice technology to be supplemented with many components.



### Video intercom phone system set single-family house 2Voice (BUS) | Comfort Plus

**SET 1784/716**  
Item No. 74711

- MIKRA 2 Door station
- VOG 5W Video monitor 5"
- Power source



### Video intercom phone system set for two-family house 2Voice (BUS)

**Comfort Plus**  
**SET 1784/726**  
Item No. 74712

- MIKRA 2 Door station
- 2 x VOG 5W Video monitor 5"
- Power source

### A powerful set for everyone with basic functions

Powerful starter sets meet all the basic requirements of video sound systems. The MIKRA 2 door station is powerful and of course equipped with a camera. VOG 5 offers integrated touch control and possible call forwarding. In addition, AHD video cameras can be connected via the display.



### Video intercom phone system set for a single-family house 2Voice (BUS) | Comfort

**SET 1784/7**  
Item No. 74713

- MIKRA 2 Door station
- VOG 5 Video monitor 5"
- Power source



### Video intercom phone system set for two-family house 2Voice (BUS) |

**Comfort**  
**SET 1784/782**  
Item No. 74714

- MIKRA 2 Door station
- 2 x VOG 5 Video monitor 5"
- Power source





















### Modernization made easy


2VOICE fulfills the wishes of installers for a simple digital videophone system with a short installation time. The two-wire system combines the reliability of analog technology with the functionality of digital systems. Existing intercom phono systems can be easily modernized with 2VOICE.

- Compatibility:  
use existing cable installations
- Installation:  
modernization of old systems
- Security:  
Communication between devices is encrypted with a proprietary algorithm that protects against possible external hacking.

OVERVIEW OF ALL SETS

System									
									
Type	SET 1723/95	SET 1723/96	SET 1730/501	SET 1784/716	SET 1784/726	SET 1784/781	SET 1784/782	SET 1060/643	SET 1060/623
Monitor screen	7"	7"	7"	5"	5"	5"	5"	7"	7"
Maximum number of door stations	1	1	2	16	16	16	16	max. 999 (without a server)	max. 999 (without a server)
Maximum number of monitors (for one housing unit)	4	4	4	4	4	4	4	16	16
House-phone (optional)	✗	✗	✓	✓	✓	✓	✓	✓	✓
Security camera (optional)	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera type	1092/250A	1092/250A	1096/405	AHD-Kamera	AHD-Kamera	AHD-Kamera	AHD-Kamera		
Access control (possible)	✓	✓	optional	✗	✗	✗	✗	✓	✗
Call forwarding (integrated)	✓ CallMe	✓ CallMe	✓ Urmet View	✓ CallMe	✓ CallMe	✗	✗	✓ CallMe	✓ CallMe
YOKIS Smart house	✓ 8-channel transmitter	✓ 8-channel transmitter	✗	✓ 8-channel transmitter	✓ 8-channel transmitter	✗	✗	✓ 8-channel transmitter	✓ 8-channel transmitter
Disability solutions DIN 1040-1	✓	✗	✗	✓	✗	✓	✗	✓	✗
Switching: Push and talk	✓	✓	✗	✓	✓	✓	✓	✗	✗
Gesture control	✗	✗	✗	✓	✓	✓	✓	✓	✓
Voice messages	✓	✓	✗	✓	✓	✗	✗	✓	✓
SD card slot	✓	✓	✗	✓	✓	✗	✗	✓	✓
Relay contacts	✓	✓	✗	✓	✓	✗	✗	✗	✗
Connection failure sensor	✓	✓	✗	✗	✗	✗	✗	✗	✗

ZU DEN SETS



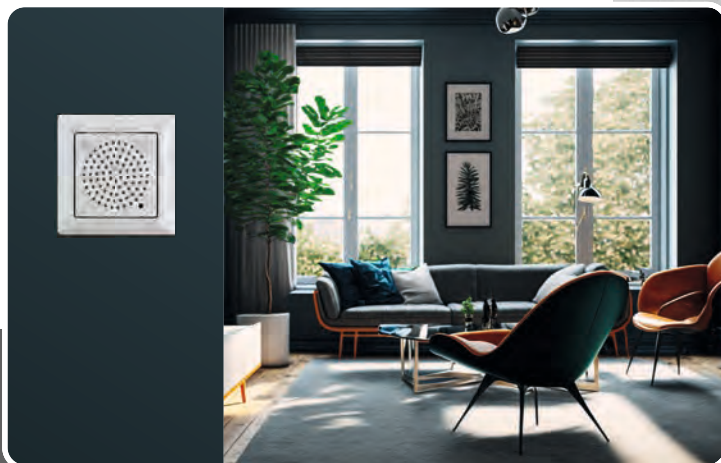




## YOU WILL ALWAYS FIND THE RIGHT SOUND WITH GROTHE DOOR BELLS.

Grothe doorbells sound beautiful and look good! Choose your doorbell from a wide range of products: classic electromechanical, innovative electronic or wireless - linked to the latest, far-reaching, interference-free radio technology.

**MISTRAL:** the chameleon among wireless doorbells. It's a doorbell and a picture frame in one.



**RECESSED DOORCLOCKS:** These small and unobtrusive clocks are designed in wireless and electronic versions.

**ELECTRO-MECHANICAL DOOR BELLS:** classic clocks. Pure watch steel with tonearms. In many designs and with different surfaces.



## BRIEF OVERVIEW:

Whether you are installing a new doorbell system, retrofitting or expanding, we have the right solution for your project. Our doorbells not only look good, they also shine with great sound.



## WIRELESS DOORBELLS

### SERIES CALIMA (p. 120)



### SERIES MISTRAL (p. 126)



### UP-RECESSED SERIES (p. 136)



### SERIES ECHO (p. 144)



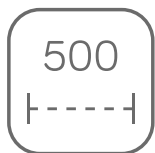


# CALIMA

Mobile, versatile, hybrid,  
individual.



CALIMA is a series of doorbells developed for the individual needs of modern everyday life. CALIMA series doorbells with practical functions adapt to your needs. In addition, each individual CALIMA has special features such as a night light or music streaming.



**Flexible use:** interference-free wireless connection with a range of up to 500 meters. Complies with the current radio standard RED2014/53/EU.



**Colored LED ring:** also provides visual information that visitors are at the front door. Choose the color and type of light you want.



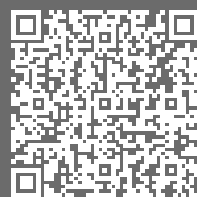
**Menu with voice announcement:** easy management thanks to a clear menu structure, voice output and two discrete buttons.



**Mute and snooze function:** when you want the house to be quiet.



**Differentiating multiple calls:** gives a direct signal on which door the bell rang.



**SCANNEN**

und alle Gong-  
Melodien anhören.





Waiting for someone in the house while gardening - this is the history of the CALIMA wireless door!

Just take CALIMA with you!



With CALIMA, you will never miss a guest again.



## CALIMA 200, 400: WIRELESS - SMALL AND FLEXIBLE

- Two-button operation (menu and selection button)
- Menu navigation with voice prompts (in English)
- Optical signal display with flashing colors
- LED ring (color adjustable)
- 13 different melodies
- 11-way call differentiation
- 11 transmitters can be connected
- Interference-free wireless connection (each wireless doorbell button sends an individual code)
- Snooze function: 1, 3, 9 hours of timed silence
- Mute: visual display as a reminder
- Long distance: 500 meters
- Visual/audio warning of low battery
- Expandable system: easy connection of additional wireless doorbell buttons and additional doorbells

- Individual call: multiple bell buttons can be used with several bells connected (except CALIMA 400 only)
- Center call: any bell button can be used for controlling a number of wireless bells from the ECHO, MISTRAL, CALIMA series (except CALIMA 400 only)
- Matrix call: possibility to combine, center and individual calls
- Individual setting options for LED ring melody and color for each wireless bell button
- Compatible with all MISTRAL wireless bell button transmitters
- Color: white / black
- Loudness: up to 86 dB(A) depending on the melody
- Frequency: 868.35 MHz
- Temperature range: +5 to +40 °C
- Use: only in dry rooms



### Wireless doorbell set CALIMA 200

Type: CALIMA 200 • Item No. 43560

- Bell button transmitter included
- The receiver and bell button are connected at the factory
- Power supply: 4 x 1.5 V, AA (not included)
- Receiver dimensions: Ø 65 x 100 mm
- Bellbutton transmitter dimensions: 36 x 100 x 17 mm

## CALIMA 600, 800: DOOR BELLS THAT TRULY DISTINGUISH

- Two-button operation (menu and selection button)
- Menu navigation with voice prompts (in English)
- Optical signal display with flashing colors
- LED ring (color adjustable)
- 13 different melodies plus your own melodies via SD card
- 22-way call differentiation
- 22 bell button transmitters can be connected
- Interference-free wireless connection (each wireless doorbell button sends an individual code)
- Snooze function: 1, 3, 9 hours of timed silence
- Mute: visual display as a reminder
- Long distance: 500 meters
- Visual/audio warning of low battery
- Expandable system: easy connection, addition of additional wireless doorbell buttons and bells

- Individual call: can be connected to any wireless doorbell several bell button transmitters
- Central call: bell button transmitter can connect any number with wireless doorbells from the ECHO, MISTRAL, CALIMA series
- Matrix call: combination option
- Central and individual calls
- Separate LED ring setting options for each bell button transmitter for melody and color
- Compatible with all MISTRAL bell button transmitters
- Color: white / black
- Loudness: up to 86 dB(A) depending on the melody
- Frequency: 868.35 MHz
- Temperature range: +5 to +40 °C
- Use: Only in dry rooms



### Wireless doorbell set CALIMA 800 GB

Type CALIMA 800 GB • Item No. 43581

- Wireless bell button MISTRAL SE03, white table adapter for power supply TA55 included
- The wireless doorbell and bell button transmitter are connected at the factory
- Bluetooth speaker function
- The flash function can be turned on
- SD card slot for custom ringtones
- Power supply: built-in lithium battery via TA55 desktop adapter
- Receiver dimensions: Ø 85 x 140 mm
- Transmitter dimensions: 36 x 100 x 17 mm



# MISTRAL

## One doorbell, many faces.

**500 meters:** MISTRAL can be installed anywhere in the house.

**Polyphonic melodies:** with a large selection of ringtones, you can personalize MISTRAL according to your preferences.

**Brilliant sound:** ready to use in minutes, complete with matching MISTRAL bell button transmitter.

**Safety:** complies with the current radio standard RED2014/53/EU

### MISTRAL 200 M and 300 M

The GROTHE wireless doorbell classic: MISTRAL series doorbells reliably announce arrivals at the front door of millions of households.



MISTRAL 200M



MISTRAL 300M

- Different designs and colors
- MISTRAL 300 M can be combined with existing bell buttons
- LED signal in the 300 M series
- Battery adapter included

**MISTRAL 200 M and 300 M wireless doorbells are available in six different colors:**



White



Black



Silver



Red



Green



White/ Silver

### MISTRAL-transmitter

Easy to connect to the doorbell



MISTRAL-transmitter  
SE06



MISTRAL-  
transmitter  
SE03



Motion sensor  
BM03



## MISTRAL 200M SETS

- **Central call:** multiple receivers can be controlled with one transmitter
- **Individual call:** each receiver can be controlled separately with the help of additional transmitters
- **Matrix call:** central and individual calls combination
- **Optical and acoustic LowBatt message** to sender and to the receiver
- **Four-position slide switch** to set the ringtone
- **20 transmitters** can be connected
- **With alarm function:** DIN emergency call tone
- **Range:** 500 m
- **16 polyphonic melodies**
- **16 times call differentiation:** wireless and 2-wire communication
- **Adjustable volume:** max 86 dB(A)
- **MISTRAL 200 batteries:** 4 x 1.5 V LR14 / (not included)
- **Typical battery life:** 5-10 years
- **Receiver dimensions:** 150 x 115 x 40 mm



### Wireless doorbell set MISTRAL 200 M

Type: MISTRAL 200M • Item No. 43305

- Body color: white • Front: white / silver
- MISTRAL SE03 wireless bell button transmitter included
- Bell button transmitter power supply: 2 x 1.5 V, LR03 / AAA (not included), external power supply: 6 - 12 V DC
- Bell button transmitter protection class: IP54
- Wireless bell button transmitter MISTRAL SE03 dimensions 36 x 100 x 17 mm

## MISTRAL 300 M INDIVIDUALLY AND AS A SET

- **For attaching to the wall and placing it freely**
- **Central call:** multiple receivers can be controlled with one transmitter
- **Individual call:** each receiver can be controlled separately using additional transmitters
- **Matrix call:** a combination of central and individual calls
- **Optical and acoustic LowBatt message** to sender and receiver
- **Four-position slide switch** to set the ringtone
- **20 transmitters** can be connected
- **With LED signal**
- **With alarm function:** DIN emergency call tone
- **Range:** 500 m
- **16 polyphonic melodies**
- 16x call differentiations: **wireless and 2-wire communication**
- **Terminals for connecting** two conventional clock buttons
- Adjustable volume: **max 86 dB(A)**
- **MISTRAL 300 batteries:** 4 x 1.5 V LR14/C (not included)
- **Typical battery life:** 5-10 years
- **External power supply voltage** 8- 12VAC/DC
- **MISTRAL 300 dimensions:** 150 x 115 x 38 mm



### Wireless doorbell set MISTRAL 300M

Type: MISTRAL 300M • Item No. 43300

- Body color: white • Front: white / silver
- MISTRAL SE03 wireless bell button transmitter included
- **Wireless bell button transmitter voltage:** 2 x 1.5 V, LR03 / AAA (not included), external power supply: 6 - 12 V DC
- Bell button transmitter protection class: IP54
- Wireless bell button transmitter MISTRAL SE03 dimensions: 36 x 100 x 17 mm



### Wireless doorbell set MISTRAL 300M BM

Type: MISTRAL 300M BM • Item No. 43315

- Body color: white • Front: white / silver
- MISTRAL BM03 wireless motion sensor included
- Motion sensor power supply: 1 x 3 V, CR 123A, external power supply: 8 - 12 V =/~50 Hz
- Degree of protection of the transmitter: IP20
- Dimensions of the motion sensor MISTRAL BM03: 124 x 69 x 54 mm

## MISTRAL 400M SETS



Wireless doorbell set MISTRAL 400M

Type: MISTRAL 400M • Item No. 43310

Plug-in wireless doorbell kit

- 17 polyphonic melodies
- Alarm function
- Central, individual and matrix speech
- Can be plugged into a Euro/Schuko socket
- Receiver dimensions: 127 x 62 x 78 mm
- Excellent and long lasting

LED signal

- SE03 bell button transmitter included (500 m distance in free field)

## MISTRAL 600

A personalized doorbell for those who care about being different, just choose a suitable photo from the set or use



- Polyphonic ringtones
- Can be combined with existing bell button transmitters
- Two integrated LED lights
- Battery adapter included

### 12 exchangeable motif photos in the set



## MISTRAL 600 AS A SET AND AS AN INDIVIDUAL PRODUCT

- **Central call:** several doorbell receivers can be controlled with one bell button transmitter
- **Individual call:** each receiver can be controlled separately using additional transmitters
- **Matrix call:** combinations of central and individual calls
- **Optical and acoustic LowBatt display** for transmitter and receiver
- **Four-position slide switch** to set the ringtone
- **20 transmitters** can be connected
- **With LED signal**
- **With alarm function:** DIN emergency call tone
- **Range:** 500 m

- **16 polyphonic melodies**
- **16x call differentiation:** wireless and 2-wire communication
- **Terminals for connecting two conventional bell buttons**
- **Includes 12 editable design themes**
- **Adjustable volume:** max 83 dB(A)
- **MISTRAL 600 batteries:** 4 x 1.5 V LR14/C (not included)
- **Typical battery life:** 5-10 years
- **External power supply voltage:** 8- 12VAC/DC
- **MISTRAL 600 dimensions:** 180 x 140 x 50 mm



### Wireless doorbell set

Type: MISTRAL 600 ws • Item No 43410

- Body color: white
- For wall mounting and free standing
- Wireless bell button transmitter MISTRAL SE03 included
- Bell button transmitter power supply: 2 x 1.5 V, LR03/AAA (not included), external power supply: 6 - 12 V DC
- Bell button transmitter protection class: IP54
- Wireless bell button transmitter MISTRAL SE03 dimensions: 36 x 100 x 17 mm



## WIRELESS BELL BUTTON TRANSMITTER

Can be combined with all  
Grothe wireless doorbells.

### BELL BUTTON TRANSMITTER MISTRAL SE 03

A radio transmitter with exceptional range. Meets the highest functionality requirements.

- For all Grothe wireless doorbells
- Frequency: 868.35 MHz
- Range: 500 m in an open field
- Call forwarding
- LED function signaling
- Degree of protection: IP54
- Power supply: 2 batteries 1.5 V type AAA (not included) or 6-12 V DC external
- Operating temperature: -15 to +50 °C



Bell button transmitter MISTRAL SE03  
Type: MISTRAL SE03 • Item.No. 43441  
• Plastic color: white  
• Dimensions: 100 x 36 x 17mm



Bell button transmitter MISTRAL SE03  
Type: MISTRAL SE03a • Item No. 43442  
• Plastic color: anthracite  
• Dimensions: 100 x 36 x 17mm

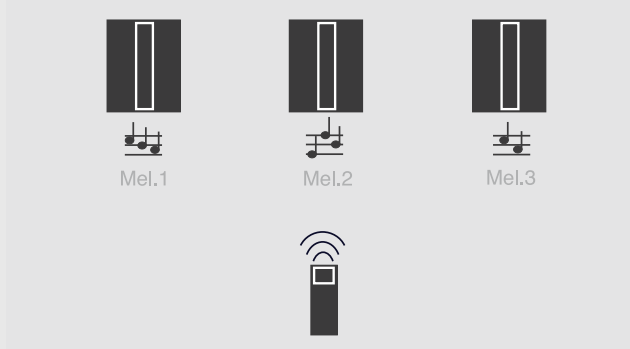


Bell button transmitter MISTRAL SE03  
Type: MISTRAL SE03s • Item.No. 43440  
• Plastic color: varnished silver  
• Dimensions: 100 x 36 x 17mm

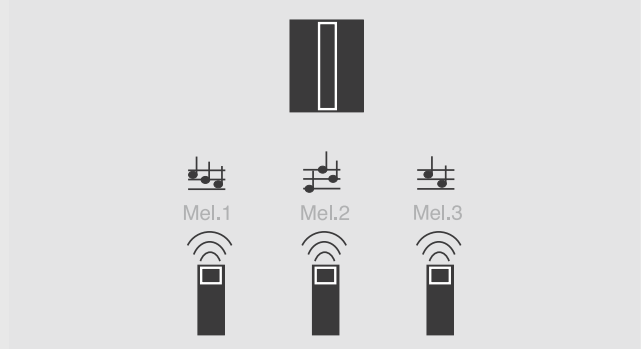


# CONNECTING WIRELESS DOOR BELLS

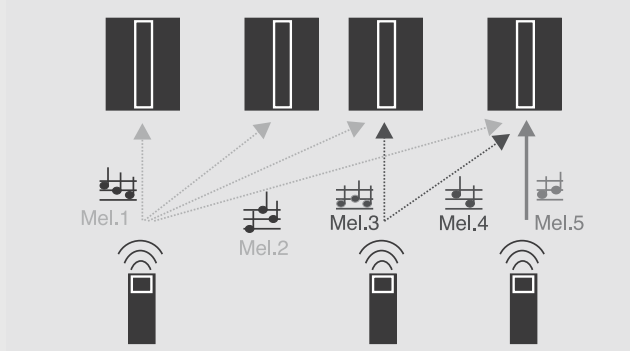
## 1. Zentralruf Central



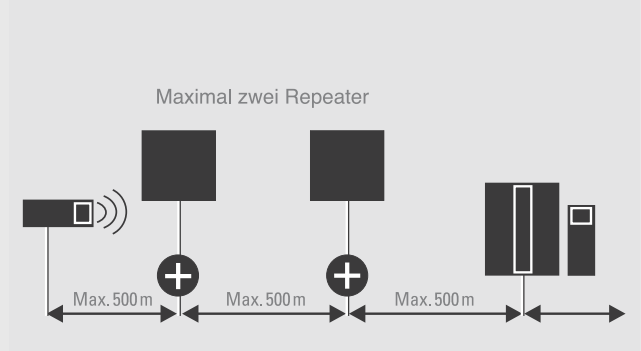
## 2. Individualruf Individual



## 3. Matrixruf Matrix

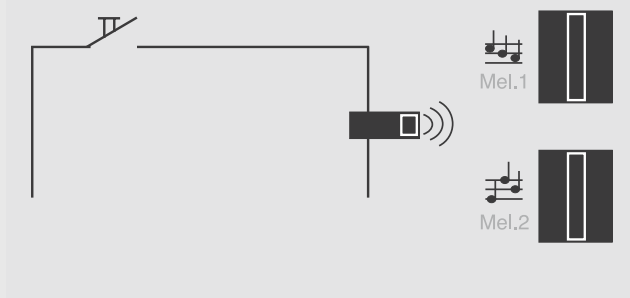


## 4. Repeater Repeater



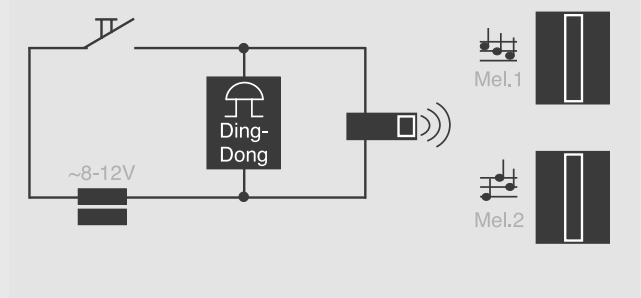
## 5. Rufweitschaltung „potentialfrei“

"Potential-free" speech transmission



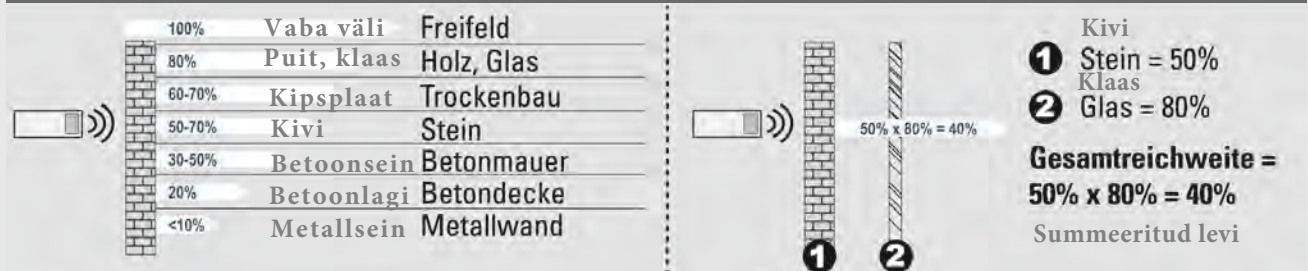
## 6. Rufweitschaltung mit Wechselspannung

Call transmission on AC voltage



Effect of walls and ceilings on the coverage area of the transmitter signal

## Einflüsse von Wänden und Decken auf die Reichweite



Um die Reichweite bei schwierigen Bedingungen zu erhöhen, nutzen Sie den Distanzmultiplikator oder den MISTRAL WR

Leviulatuse suurendamiseks rasketes tingimustes kasutage repiiterit või MISTRAL WR-i





7>75FDA@;5 6AAD47>>E

## SERIE CROMA p. 148)



## SERIE ECHO



## CALIMA 50 p.156)



## UP-GONGS (p.157)



Ding Dong



## ELECTRO-MECHANICAL DOOR BELLS

## Doorbells p.160)







# CROMA

With different colors, shapes and melodies,  
CROMA offers a lot of customization options.



- Different operating voltages
- Polyphonic ringtones
- Differentiating multiple calls
- Postponement function
- Long battery life



# ELECTRONIC DOORBELLS CROMA 230

- 17 polyphonic melodies
- Stepless volume control
- Two-way call differentiation
- One-touch mute
- Different working voltages with transformer 8 - 12 V AC / DC or 230 V AC
- Can also be used in mixed installations thanks to the integrated transformer (230 V AC supply / 8 V start)

- Economical operation due to minimal standby
- Possible parallel connection with other clocks (see connection diagram overview on page 155)
  - Adjustable volume: max 86 dB(A)
  - VDE tested
  - Operating temperature: +5 to +40 °C
  - Dimensions: 150 x 115 x 45mm



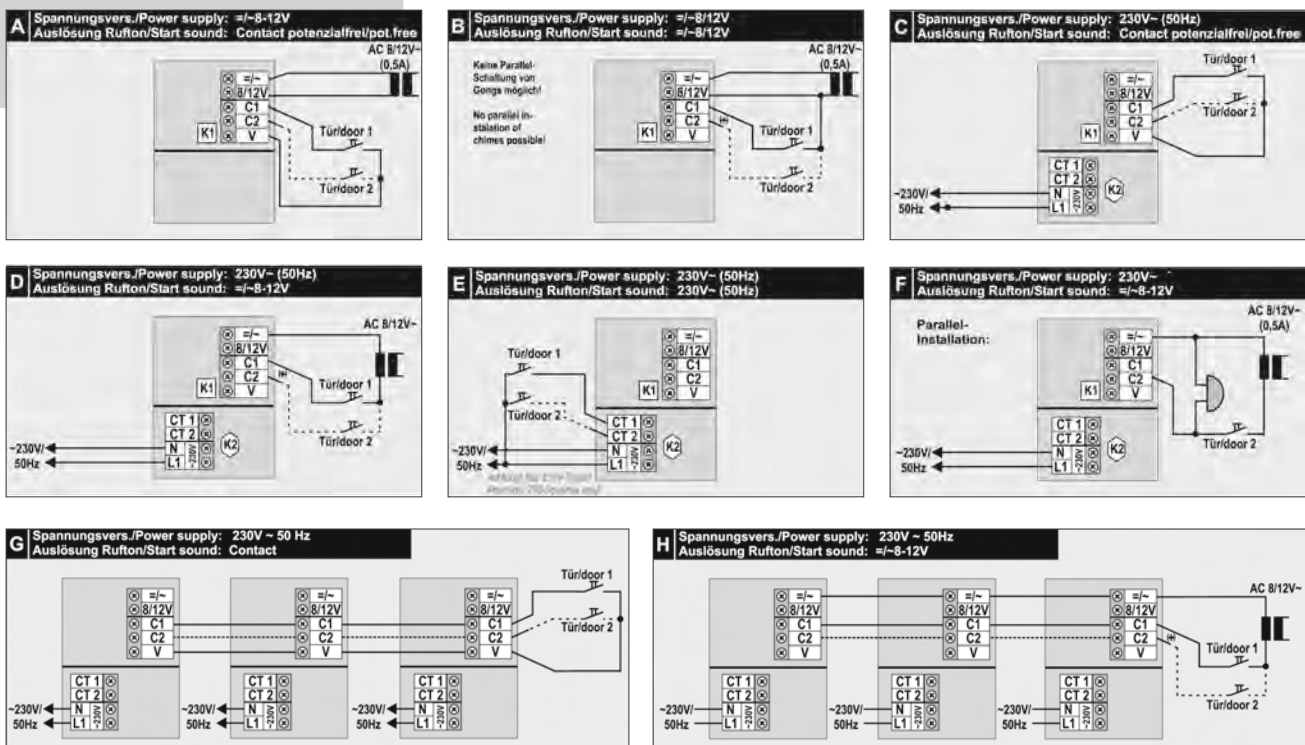
## Electronic doorbell

Type: CROMA 230A • Item No. 43175

- Color White / Silver / Glossy

**Note:** If the supply voltage is 230 V AC, according to the standard, the electrical installation of the building must have an all-pole connection switch. Integrated the transformer is not suitable and is not intended for operating electric door openers! When using 230 V AC, use only suitable 230 V buttons!

## CONNECTING CROMA 230/231



### Note:

- If the supply voltage is 230 V AC, according to the standard, the electrical installation of the building must have an all-pole connection switch.
- The integrated transformer is not suitable and is not intended to operate electric door openers. An additional transformer (e.g. GT 3148) may be required on site.
- When using 230 V AC, use only suitable 230 V buttons!



# RECESSED

SMALL, DISCREET, INTEGRATED

# DOORBELL



Süvistatava uksekellade  
seeria lihtne disain  
sulandub märkamatult  
paljude tuntud lülititootjate  
toodetega. Lihtsalt  
integreerige paindlikult  
kohapeal.







- Quartz stable 250 meter range
- Polyphonic melodies with adjustable volume
- One button operation with voice output
- Connected to a set that is factory set ready to use
- Very easy connection of additional bell button transmitters or wireless doorbells
- Delay function
- Complies with the current radio standard RED2014/53/EU

## RECESSED WIRELESS DOORBELL 230

- One button operation
- Menu navigation with voice prompts (in English)
- 5 varied melodies
- Range: 250 m
- Expandable system: easy connection of additional wireless doorbell buttons and wireless doorbells
- Individual call: several bell button transmitters can be connected to each wireless doorbell
- Central call: the bell button transmitter can be connected to any number of wireless door bells.
- Matrix call: possibility to combine central and individual calls
- Individual setting options for melody for each bell button transmitter
- Interference-free wireless connection (each wireless doorbell button sends an individual code)
- Compatible with all Mistral push button transmitters
- Delay function: Mute 1, 3 or 9 for an hour
- "Mute" with a visual reminder
- Volume: adjustable, up to 83 dB(A) depending of the melody
- Frequency: 868.35 MHz
- Power supply: 230 V 50 Hz (0.036 A)
- With mounting plate and frame
- Switches in the range of 55 x 55 mm from well-known manufacturers such as Jung, Merten, Berker, Siemens
- Use: only in dry rooms
- Installation depth: 40 mm
- Dimensions: 80 x 80 x 52 mm



### UP Wireless Doorbell Set

Type: UP-FG 230ws • Item No. 43740

- The color is white
- Includes wireless bell button transmitter MISTRAL SE03 / color: white
- The doorbell and bell button transmitter are connected at the factory
- Bell button transmitter MISTRAL SE03 dimensions: 36 x 100 x 17 mm
- Power supply for bell button transmitters: 2 batteries 1.5 V LR03 / AAA (not included), possible external power supply: 6 - 12 V DC



# ELECTRO-MECHANICAL DOOR BELLS



## Powerful and unforgettable.

The rich two-tone sound of electromechanical doorbells is produced by levers made of real bell steel. Doorbells can be powered by 230 V or a classic bell transformer.



Helikangid  
ehtsast  
kellaterasest

## Electromechanical doorbells



### Doorbell

Type: GONG 165 Bw • Item No. 44165

- **Body:** white
- For block batteries with section 9 V (ALKALINE type), not included in the delivery set
- Can be used with external transformer 8-12 V AC (12 VA) or 9 V (block battery: type 6LR61)
- Max 80 dB(A)
- KB max 5 / 15 s
- **Dimensions:** 118 x 118 x 47mm



### Doorbell

Type: GONG 169 Bw • Item No. 44169

- **Body:** white
- Can be used with an external transformer 8 – 12 V AC (12 VA) or 4 x 1.5V C-type Baby batteries (not included)
- Max 80 dB(A)
- KB max 5/15 s
- **Dimensions:** 169 x 104 x 49 mm



## DOOR BELL ACCESSORIES

A selection of doorbell accessories can be found here



**Bell button KKO 2005 W**

Surface: Art.64036 White housing, white button



**Bell button KKO 2005 SW**

Surface: Art.64035 Black housing, white button



**Bell button KKO 2002 WS**

Surface: Art.64085 LED, white housing, white button



**Bell button KKO 2002 SW**

Surface: Art.64086 LED, black housing, white button

## BELL TRANSFORMER GTN 3139

Bell transformers are optimized for short-term use, e.g. various doorbells and door openers. Grothe transformers are protected by PTC. It switches off the transformer in case of short circuit and overload. If the PTC activates due to overload or short circuit, the transformer must then be de-energized for a short period of time before being re-energized after at least one minute.



**Bell transformer**

Type GTN 3139 • Item No. 14039

- Primary voltage: 230 V AC (50 Hz)
- Secondary voltage: 8 / 12 V AC (1.5 / 1.0 A)
- 2- installation units
- Dimensions: 90 x 36 x 60 mm

## WIRELESS MOTION SENSOR MISTRAL BM03

Recognizes people or movements in the detection area and triggers the compatible MISTRAL wireless doorbell. Delay time adjustable between 3-60 seconds. Low energy consumption ensures an extremely long battery life. For all Grothe wireless doorbells.



**Wireless motion sensor MISTRAL BM03**

Type MISTRAL BM03 • Art.-Nr. 43445

- Plastic color: white
- Maximum tracking range: 108° with 15 m optical range
- LED screen walking test
- Delay time: adjustable between 3 - 60 s
- Attachment with hinge
- Frequency: 868.35 MHz
- Spread 500 m in an open field
- Power supply: 3 V lithium battery CR 123A or 8-12 V AC / DC
- Degree of protection: IP20 (for indoor use only)
- Dimensions: 124 x 69 x 54 mm



## SECURITY SYSTEMS

VIDEO- SURVEILLANCE

### FOCUSED ITEMS CATALOGUE



Grothe video surveillance. High resolution cameras, powerful recorders and intelligent video analysis. Precise fit, adapted to construction requirements.



# MORE THAN JUST HIGH RESOLUTION VIDEO RECORDING.



Video surveillance can be precisely adapted to the building and specific requirements. High-resolution cameras, powerful recorders and intelligent video analysis increase security in every building.



## CAMERAS **PRO-SERIE** and **ECO-SERIE**

The cameras of the Pro and Eco series enable professional video surveillance with a detailed image and an intelligent analysis tool for monitoring parameters.

### Highlights

- Image resolution 5MPX / 4K
- Starlight 0.05Lux
- Wide dynamic range
- H.265 video compression
- PoE power supply
- Fixed and motorized lenses
- IP66

### **PRO-SERIE**

Includes  
Intelligent  
video analysis

## **WLAN (WIFI)** CAMERAS

Video surveillance cameras with image transmission via WLAN are easy to install and quickly ready for use.

### Highlights

- Image resolution 1920 x 1080 pixels
- Integrated IR LED
- SD card slot
- Fixed or motorized zoom lenses
- V Stream application



Detailed night surveillance image thanks to the Starlight function.



## ACCESSORIES

Cables, clamps and mounting boxes for our video surveillance systems. The right accessories for a perfect video surveillance system.

## NETWORK VIDEO RECORDER



- Automatic configuration of IP cameras in network video recording
- H.265 data compression
- Recording resolution up to 4K
- 4, 8, 16 or 32 channels
- 1 TB or 2 TB storage capacity (expandable)
- Manage intelligent video analytics

## AUTOMATIC DATA EVALUATION WITH INTELLIGENT VIDEO ANALYSIS

In the event of a break-in, a quick response is crucial to prevent damage. However, in everyday life, surveillance images cannot be checked around the clock. Ideally, the video surveillance system takes over this work. For this purpose, the IP video Surveillance cameras 4K and 5MPX Pro already integrated intelligent video analysis.

### Monitoring parameters

- (Double) line crossing
- Perimeter intrusion detection
- Object added/removed
- Detection of stationary objects and people
- Counting line crossings

*Als kostenlose PC-Software und als App.*



## WLAN

**Video surveillance set WLAN 2.4 GHz SET 1098/820**

Set consisting of: 1x NVR with two antennas and HDD 1 TB, 2x WLAN camera 1099/218, 2x power supply, incl. video sticker Weight: 2 kg  
Number of cameras 2, storage medium type hard drive



1098/820

Type:	Item No.
1098/820	1098/820

**WLAN Bullet camera VK 1099/218**

WLAN bullet camera for set 1098/820, resolution 2 MPX, full HD, incl. lens 3.6 mm, 0 lux, 4 LED IR spotlights, 12 V DC, IP66, protocol: P-WLAN, video compression : H.265+, day-to-day switching, 10 IR LEDs, 12 m IR range, backlight compensation, power supply: 12 V DC, power consumption: 5.52 W (IR LEDs on), built-in PIR sensor range 7 m, White light LEDs range 7 m



1099/218

Type:	Item.No.
VK 1099/218	1099/218

**WLAN Cube camera VK 1099/209**

VK 1099/209-H.265 / H.264 data compression; Resolution 1080p (1920 x 1080) / 20 fps; Fixed lens 2.8 mm; 12V DC;

Cube, indoor application area, TCP/IP transmission, focal length size 2.8 mm, color white, WLAN interface design, with lens, with IR lamp, max. infrared range 10 m, height 120 mm, width 90 mm, Depth 78mm



1099/209

Type:	Item No.
VK 1099/209	1099/209

**WLAN PAN/TILT Dome camera VK 1099/211**

VK 1099/211-H.265 / H.264 data compression; Resolution 1080p (1920 x 1080) / 20 fps; Fixed lens 3.6mm; 5 V DC (power supply included);

Dome, indoor application, TCP/IP transmission, infrared image system feature, focal length size 3.6 mm, WLAN interface design, with lens, with IR lamp, max. infrared range 10 m, supply voltage 5 V, height 105 mm , width 80 mm, depth 90 mm



1099/211

Type:	Item.No.
VK 1099/211	1099/211

**WLAN Bullet Camera VK 1099/214**

VK 1099/214-H.265 / H.264 / MJPEG data compression; Resolution: 1080p (1920x1080) / 20fps; Fixed lens 2.8 mm, Starlight; 12V DC or PoE; IP66, D-WDR

Standard (fixed), wall/ceiling mounting type, universal application area, analogue transmission, Power over Ethernet

(PoE) 802.3 af (PoE), PAL image system, Color image system feature, Focal length size 2.79999999 mm, White color, Wireless, WLAN interface design, Number of pixels (megapixels) 2, Storage capacity 0 GB, With lens, With IR Lamp, max. infrared range 30 m, protection class IP66, horizontal viewing angle 108 °, power consumption 5.4 W, supply voltage 12 V, voltage type DC, height 71 mm, width 67 mm, depth 167 mm



1099/214

Type	Item.No.
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VK 1099/214	1099/214
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## WLAN

**WLAN Bullet Camera VK 1099/216**

1099/216

VK 1099/216-H.265/H.264/MJPEG data compression; Resolution: 1080p (1920x1080) / 20fps; Motorized lens 2.8 - 12 mm, Starlight; 12V DC or PoE; IP66, D-WDR  
Standard (fixed), wall/ceiling mounting type, universal application area, analogue transmission, Power over Ethernet  
(PoE) 802.3 af (PoE), PAL image system, Color image system property, Focal length size 2.79999999 ... 12 mm, Color white, Wireless, WLAN interface design, Number of pixels (megapixels) 2, Storage capacity 0 GB, With lens , With IR lamp, max. infrared range 30 m, protection class IP66, horizontal viewing angle 37 ... 108 °, power consumption 5.4 W, supply voltage 12 V, voltage type DC, height 76 mm, width 68 mm, depth 189mm

Type:

ItemNo..

VK 1099/21

1099/216

**WLAN/4G Bullet camera VK 1099/212**

1099/212

K 1099/212-H.265 / H.264 data compression; Resolution 1080p (1920 x 1080) / 15 fps; Fixed lens 2.8mm; 12V DC;  
Standard (fixed), wall/ceiling mounting type, universal application area, TCP/IP transmission, Power over Ethernet  
(PoE) 802.3 af (PoE), image system PAL, color image system feature, focal length size 2.8 ... 12 mm, color white, wireless, WLAN interface design, number of pixels (megapixels) 2, with lens, with IR Lamp, max. infrared range 30 m, with video motion detector, protection class IP66, power consumption 5.4 W, supply voltage 12 V, voltage type DC, height 76 mm, width 68 mm, depth 189 mm

Type:

ItemNo..

VK 1099/212

1099/212

**Junction box VKZ 3000/110**

3000/110

VKZ 3000/110-for Urmet CCTV cameras; IP PRO; Protection class IP66

Type:

Art.-Nr.

VKZ 3000/110

3000/110

**Flush-mounted power supply unit NG 1092/803**

1092/803

Flush-mounted power supply: suitable for distribution box, output: 12V (DC), 1000mA, input: 230V (AC), 50 Hz, for CCTV cameras, IP66, flat design  
Input voltage 230 V, output voltage 12 V, output current 1000 mA, stabilized, type of output voltage DC, mounting type flush-mounted

Type:

ItemNo.

NG 1092/803

1092/803

## AHD

**AHD Bullet Camera ECO Series VK 1096/212**

1096/212

AHD bullet camera ECO series: Resolution: 2 MPX (1920 x 1080) / 25 fps; including motor. Lens 2.8 - 12mm; 0 Lux, xx IR LED spotlight; 12V DC, 0.500A (IR-In); IP66, D-WDR, UTC; 62x62x180mm; ST Standard (fixed), mounting type wall/ceiling, focal length size 2.8 ... 12 mm, number of pixels (megapixels) 2, with lens, with IR lamp, protection class IP66, supply voltage 12 V, voltage type DC

Type:	ItemNo.
VK 1096 /212	1096/212

**AHD Bullet camera PLUS series VK 1096/406**

1096/406

AHD bullet camera PLUS series. Resolution: 5 MPX (2592 x 1944) / 20 fps; including motor. Lens 2.7 - 12mm; 0 Lux, 2 IR LED spotlights; 12V DC, 0.550A (IR-In); IP66, D-WDR, UTC; 75x75x195mm Standard (fixed), wall/ceiling mounting type, infrared image system feature, focal length size 2.7 ... 12 mm, color white, number of pixels (megapixels) 5, with lens, max. infrared range 30 m, protection class IP66, supply voltage 12 V, voltage type DC, diameter 75 mm, depth 195 mm

Type:	ItemNo.
VK 1096 /406	1096/406

**AHD Bullet camera PLUS series VK 1096/407**

1096/407

K 1096/407 resolution: 5 MPX (2592 x 1944) / 20 fps; including motor. Object 6 - 22 mm; 0 Lux, 4 IR LED spotlights; 12V DC, 0.550A (IR-In); IP66, WDR 120dB, UTC Standard (fixed), mounting type wall/ceiling, focal length size 6 ... 22 mm, number of pixels (megapixels) 5, with lens, with IR lamp, protection class IP66, supply voltage 12 V, voltage type DC

Type:	ItemNo.
VK 1096 /407	1096/407

**AHD Dome camera ECO series VK 1096/312**

1096/312

VK 1096/312 resolution: 2 MPX (1920 x 1080) / 20 fps; including motor. Lens 2.8 - 12mm; 0 Lux, 24 IR LED spotlight; 12V DC, 0.500A (IR-In); IP66, D-WDR, UTC Standard (fixed), wall/ceiling mounting type, universal application area, analog transmission, PAL image system, color image system feature, focal length size 2.8 ... 12 mm, color white, number of pixels (megapixels) 2, with lens, with IR lamp, max. infrared range 30 m, with video motion detector, protection class IP66, power consumption 6 W, supply voltage 12 V, voltage type DC, diameter 93 mm, height 80 mm

Type:	ItemNo.
VK 1096 /312	1096/312

**AHD Dome camera PLUS series VK 1096/506**

1096/506

VK 1096/506 resolution: 5 MPX (2592 x 1944) / 20 fps; including motor. Lens 2.8 - 12mm; 0 Lux, 24 IR LED spotlight; 12V DC, 0.550A (IR-In); IP66, WDR 120dB, UTC Standard (fixed), wall/ceiling mounting type, universal application area, digital + analogue transmission, PAL image system, color image system property, focal length size 2.8. 12 mm, color white, number of pixels (megapixels) 5, with lens, with IR lamp, max. infrared range 20 m, with video motion detector, protection class IP66, power consumption 6 W, supply voltage 12 V, voltage type DC, diameter 95mm, height 120mm

Type:	ItemNo.
VK 1096 /506	1096/506

AHD



1097/624

4CH Hybrid Video Recorder HVR 1097/624

The DVRs support recording from analog cameras with the 960H image sensor, 720p/1080p/4K AHD cameras and 4K IP cameras without losing image information. The abbreviation AHD stands for “Analog High Definition” and is a new HD video surveillance standard. Existing analog video systems can easily be converted to AHD technology. Mixed operation of standard analog cameras and AHD cameras in one surveillance object can also be achieved by replacing the DVR. The HVRs record the video images in H.265 / H.264 format on the integrated 1TB hard drive. Recorded videos can be saved and played back using the network and USB2.0 interfaces, as well as the free software provided. Quadrant divider, calendar function and the integrated motion detector make the DVR a device with an outstanding price-performance ratio. Type of recording: analogue, device design desktop, power consumption 10 W, number of LAN ports 1, storage capacity per hard drive 1 TB, width 300 mm, height 77 mm, depth 227 mm

Type:	Item	No.
VR 1097 / 624	1097/624	



1097/628

8CH Hybrid Video Recorder HVR 1097/628

The DVRs support recording from analog cameras with the 960H image sensor, 720p/1080p/4K AHD cameras and 4K IP cameras without losing image information. The abbreviation AHD stands for “Analog High Definition” and is a new HD video surveillance standard. Existing analog video systems can easily be converted to AHD technology. Mixed operation of standard analog cameras and AHD cameras in one surveillance object can also be achieved by replacing the DVR. The HVRs record the video images in H.265 / H.264 format on the integrated 1TB hard drive. Recorded videos can be saved and played back using the network and USB2.0 interfaces, as well as the free software provided. Quadrant divider, calendar function and the integrated motion detector make the DVR a device with an outstanding price-performance ratio. Type of recording: analogue, device design desktop, power consumption 15 W, number of LAN ports 1, storage capacity per hard drive 1 TB, width 380 mm, height 50 mm, depth 340 mm

Type:	ItemNo
VR 1097 / 628	1097/628



1092/803

Flush-mounted power supply unit NG 1092/803

Flush-mounted power supply: suitable for distribution box, output: 12V (DC), 1000mA, input: 230V (AC), 50 Hz, for CCTV cameras, IP66, flat design  
Input voltage 230 V, output voltage 12 V, output current 1000 mA, stabilized, type of output voltage DC, mounting type flush-mounted

Type:	ItemNo
NG 1092/803	1092/803



39340

Power pack NG AL12/5A

Power supply: surface-mounted, DIN rail mounting, 230 V AC, 50 Hz, 12 V DC, 4 A, 92 x 72 x 70 mm input voltage 230 V, output voltage 12 V, output current 4000 mA, stabilized, type of output voltage DC, connection type terminal, Mounting type mounting rail

Type:	ItemNo
NG AL 12/5A	39340



### 5MPX IP Bullet Camera ECO VK 1099/500A



1099/500A

Simply integrate into existing network structures. Images from IP cameras are transmitted over existing data networks. IP technology offers easy-to-implement video surveillance, especially for companies with widely dispersed workplaces. Power supply possible via network (PoE). H.265 / H.264 / MJPEG data compression, resolution: 5MPX (2592 x 1944) / 15 fps, fixed lens 2.8mm, Starlight, 12V DC or PoE, IP66, D-WDR  
Standard (fixed), wall/ceiling mounting type, universal application area, transmission ONVIF 2.6, RTSP, Power over Ethernet (PoE) 802.3 af (PoE), infrared image system feature, focal length size 2.8 mm, color white, number of pixels (megapixels) 5, With lens, With IR lamp, Max. infrared range 30 m, Protection class IP66, Power consumption 3.8 W, Supply voltage 12 V, Voltage type DC, Diameter 70 mm, Depth 150 mm, ONVIF compliant

Type:	ItemNo
VK 1099/500A	1099/500A

### 5MPX IP Bullet camera ECO VK 1099/501A



1099/501A

Simply integrate into existing network structures. Images from IP cameras are transmitted over existing data networks. IP technology offers easy-to-implement video surveillance, especially for companies with widely dispersed workplaces. Power supply possible via network (PoE). H.265 / H.264 / MJPEG data compression, resolution: 5MPX (2592 x 1944) / 15 fps, motorized lens 2.7 - 13.5 mm, Starlight, 12 V DC or PoE, IP66, D-WDR  
Standard (fixed), wall/ceiling mounting type, universal application area, transmission ONVIF 2.6, RTSP, Power over Ethernet (PoE) 802.3 af (PoE), image system feature infrared, focal length size 2.7 ... 13.5 mm, color white, Number of pixels (megapixels) 5, with lens, with IR lamp, max. infrared range 40 m, protection class IP66, power consumption 4.4 W, supply voltage 12 V, voltage type DC, height 89 mm, width 87 mm, Depth 240 mm, ONVIF compliant

Type:	ItemNo
VK 1099/501A	1099/501A

### 5MPX IP Bullet camera VK 1099/400A



1099/400A

H.265/H.264/MJPEG video compression; Resolution: 5MPX (2592 x 1944) @ 30 fps; Fixed lens 2.8mm, Starlight; 12 V DC or PoE, vandal-proof; IP66, D-WDR, intelligent video analysis  
Standard (fixed), wall/ceiling mounting type, universal application area, TCP/IP transmission, Power over Ethernet (PoE) 802.3 af (PoE), image system PAL, image system color feature, focal length size 2.8 mm, color silver, number of pixels (megapixels) 5, with lens, with IR lamp, max. infrared range 30 m, Impact resistance IK07, With video motion detector, Protection class IP66, Horizontal viewing angle 91 °, Vertical viewing angle 90 °, Power consumption 3.8 W, Supply voltage 12 ... 48 V, Voltage type DC, Diameter 77 mm, Height 77 mm, Width 77 mm, Depth 150mm

Type:	ItemNo
VK 1099/400A	1099/400A

### 5MPX IP Bullet Camera ECO VK 1099/502A



1099/502A

Simply integrate into existing network structures. Images from IP cameras are transmitted over existing data networks. IP technology offers easy-to-implement video surveillance, especially for companies with widely dispersed workplaces. Power supply possible via network (PoE). H.265 / H.264 / MJPEG data compression, resolution: 5MPX (2592 x 1944) / 15 fps, motorized lens 5-50mm, Starlight, 12V DC or PoE, IP66, D-WDR  
Standard (fixed), wall/ceiling mounting type, universal application area, transmission ONVIF 2.6, RTSP, Power over Ethernet (PoE) 802.3 af (PoE), infrared image system feature, focal length size 5 ... 50 mm, color white, number of pixels (Megapixel) 5, storage capacity 128 GB, with lens, with IR lamp, max. infrared range 80 m, protection class IP66, power consumption 9 W, supply voltage 12 V, voltage type DC, height 90 mm, width 95 mm, depth 300 mm, ONVIF compliant

Type:	ItemNo
VK 1099/502A	1099/502A



### 5MPX IP Bullet Camera PRO VK 1099/401A



1099/401A

H.265/H.264/MJPEG video compression; Resolution: 5MPX (2592 x 1944) @ 30 fps; Motorized lens 2.7 - 13.5mm, Starlight; 12V DC or PoE; IP66, D-WDR, intelligent video analysis Standard (fixed), wall/ceiling mounting type, universal application area, TCP/IP transmission, Power over Ethernet (PoE) 802.3 af (PoE), image system PAL, color image system property, focal length size 2.8 ... 12 mm, color silver, Number of pixels (megapixels) 5, With lens, With IR lamp, Max. infrared range 30 m, Impact resistance IK07, with video motion detector, protection class IP66, power consumption 4.4 W, Supply voltage 12 ... 48 V, voltage type DC, diameter 84 mm, height 84 mm, width 84 mm, depth 240 mm

Type:

VK 1099/401A

ItemNo.

1099/401A

### 5MPX IP Dome camera ECO VK 1099/550A



1099/550A

Simply integrate into existing network structures Images from IP cameras are transmitted via existing data networks transmitted. This means that no new cables have to be laboriously laid. Especially for companies With widely dispersed workplaces, IP technology offers easy-to-implement video surveillance. Decentralized Data management Network cameras can be monitored, managed and accessed from anywhere via the Internet Provided with software updates as needed. Fast data transfer IP cameras contain a computer component, which compresses and sends the image data. This allows large amounts of video data to be stored at high speeds Resolution can be transferred quickly. Installation Uncomplicated installation Video surveillance with IP Technology is quickly installed and ready for use because it uses existing network structures. Power supply possible via network (PoE) The camera is powered using the appropriate switch easily over the network. H.265 / H.264 / MJPEG data compression, resolution: 5MPX (2592 x 1944) / 15 fps, fixed lens 2.8 mm, Starlight, 12 V DC or PoE, IP66, D-WDR Mounting type ceiling, area of application indoors, transmission ONVIF 2.6, RTSP, Power over Ethernet (PoE) 802.3 af (PoE), Feature infrared image system, focal length size 2.8 mm, color white, number of pixels (megapixels) 5, with Lens, with IR lamp, max. infrared range 30 m, protection class IP66, supply voltage 12 V, voltage type DC, diameter 100 mm, depth 95 mm

Type:

VK 1099/550A

ItemNo.

1099/550A

### 5MPX IP Dome camera ECO VK 1099/551A



1099/551A

Simply integrate into existing network structures. Images from IP cameras are over existing ones Transfer data networks. IP technology is particularly suitable for companies with widely dispersed workplaces easy-to-implement video surveillance. Power supply possible via network (PoE). H.265 / H.264 / MJPEG data compression, resolution: 5MPX (2592 x 1944) / 15 fps, motorized lens 2.7 - 13.5mm, 12V DC or PoE, IP66, D-WDR Mounting type ceiling, area of application indoors, transmission ONVIF 2.6, RTSP, Power over Ethernet (PoE) 802.3 af (PoE), Feature infrared image system, focal length size 2.7 ... 13.5 mm, color white, number of pixels (megapixels) 5, With lens, With IR lamp, Max. infrared range 40 m, Protection class IP66, Power consumption 4.9 W, Supply voltage 12 V, voltage type DC, diameter 136 mm, depth 140 mm, ONVIF compliant

Type:

VK 1099/551A

ItemNo.

1099/551A

### Junction box VKZ 3000/102



3000/102

Distribution box: for Urmet CCTV cameras, IP-PRO and AHD, protection class IP66, 134 (D) x 57 mm Round shape, wall/ceiling mounting type, depth 57 mm, diameter 134 mm, material plastic, color white, protection class IP66, screwed cover fastening

Type

VKZ 3000/102

ItemNo.

3000/102

### Junction box VKZ 3000/108



3000/108

VKZ 3000/108-for Urmet CCTV cameras; IP-PRO and AHD; Protection class IP66; wall mounting;

Type:

VKZ 3000/108

ItemNo.

3000/108





### Flush-mounted power supply unit NG 1092/803



1092/803

Flush-mounted power supply: suitable for distribution box, output: 12V (DC), 1000mA, input: 230V (AC), 50 Hz, for CCTV cameras, IP66, flat design

Input voltage 230 V, output voltage 12 V, output current 1000 mA, stabilized, type of output voltage DC, flush-mounted installation type

Type:	ItemNo
NG 1092/803	1092/803

### 4CH Network Video Recorder NVR 1098/324P



1098/324P

The new series of NVR network video recorders are compact systems that record only from network Implement cameras. Depending on the model, the NVRs support recording or managing up to 32 Network cameras with a resolution of 4K. Ideally, the NVRs are installed centrally, e.g. B. in one Server cabinet and the data via the free client software included in delivery or via the Accessed remotely via web browser. The 1098/3xxP models also have an internal PoE switch allows up to 8 IP-Pro cameras to be supplied with voltage via the network cable. H.264 / H.265 data compression, Recording resolution up to 4K, 4 alarm inputs, 1 alarm output, HDMI-VGA video output, 1 TB hard drive, including 4 PoE ports, weight: 2 kg  
Device design desktop, power consumption 45 W, number of LAN ports 5, number of PoE ports 4, max. PoE-- Power 45 W, storage capacity per hard drive 1 TB, width 300 mm, height 53 mm, depth 227 mm

Type:	ItemNo.
NVR 1098/324P	1098/324P

### 8CH Network Video Recorder NVR 1098/328P



1098/328P

The new series of NVR network video recorders are compact systems that record only from network Implement cameras. Depending on the model, the NVRs support recording or managing up to 32 Network cameras with a resolution of 4K. Ideally, the NVRs are installed centrally, e.g. B. in one Server cabinet and the data via the free client software included in delivery or via the Accessed remotely via web browser. The 1098/3xxP models also have an internal PoE switch allows up to 8 IP-Pro cameras to be supplied with voltage via the network cable. H.264 / H.265 data compression, Recording resolution up to 4K, 8 alarm inputs, 1 alarm output, HDMI-VGA video output, 2 TB hard drive, including 8 PoE ports, weight: 2 kg  
Device design desktop, power consumption 83 W, number of LAN ports 9, number of PoE ports 8, max. PoE-- Power 83 W, storage capacity per hard drive 2 TB, width 300 mm, height 54 mm, depth 302 mm

Type:	ItemNo.
NVR 1098/328P	1098/328P



## A modern office interior featuring large windows, wooden beams, and desks with computers. The space is bright and open, with a mix of natural and artificial light. The ceiling has exposed wooden beams and track lighting. The floor is dark and polished. The desks are white with black chairs, and there are large windows in the background.

Grothe alarm systems are a digital watchdog for each building. All necessary sensors, central-units. Windows, doors and entry areas. Also inside the building. We guarantee security.





## ALARM SYSTEM SETS

### ALARM SYSTEM SET **BASIC**

The scope of the alarm system set BASIC is optimal getting started with a solid alarm system. The headquarters can various modules expanded and thus adapted to the different ones needs can be adapted.



AZ 1068/005



KP 1068/021



IF 1068/013



IR 1033/132



AS 1033/414



AS 1033/417

Type	KT 1068/902
Item number	1068/902
Description	<b>Häiresignalisatsooni komplekt BASIC</b>
Alarm center	AZ 1068/005
Keypad	KP 1068/021
LAN interface	IF 1068/013
Motion detector	3 x IR 1033/132
Siren	AS 1033/414
Protective net for siren	AS 1033/417

### ALARM SYSTEM SET **INTERMEDIATE**

The included GPRS module increases the security aspect of the system. By sending SMS in an emergency and an emergency battery in the event of a power failure, the INTERMEDIATE set offers additional security.



AZ 1068/005



KP 1068/021



IF 1068/013



GM 1068/458



IR 1033/132



AS 1033/414



AS 1033/417

Tüüp	KT 1068/904
Item number	1068/904
Description	<b>Alarm system set INTERMEDIATE</b>
Alarm center	AZ 1068/005
Keypad	KP 1068/021
LAN interface	IF 1068/013
GPRS module	GM 1068/458
Motion detector	3 x IR 1033/132
Siren	AS 1033/414
Protective net for siren	AS 1033/417



## ALARM SYSTEM SETS

### ALARM SYSTEM SETS **PROFESSIONAL**

As the largest of the three sets listed, PROFESSIONAL offers the right combination for medium-sized systems in the private, industrial and service sectors.

Type	KT 1068/906
Item number	1068/906
Description	<b>Alarm system set PROFESSIONAL</b>
Alarm center	AZ 1068/010
Keypad	KP 1068/021
LAN interface	IF 1068/013
GPRS module	GM 1068/458
Motion detector	2 x IR 1033/132
Joint holder	2 x IB 1033/119
Siren	AS 1033/414
Protective net for siren	AS 1033/417



AZ 1068/010



KP 1068/021



IF 1068/013



GM 1068/458



IR 1033/132



AS 1033/414



IR 1033/119





AS 1033/417







## ACCESSORIES ALARM SYSTEMS

### BATTERIES FOR ALARM SYSTEMS AND SIREN

	Type / Item No.	Item/ Description
 <p>Sarnane illustratsioon</p>	<b>AK 1033/600</b>  ItemNo. 1033/600	<b>Aku 12 V – 2 Ah</b> <ul style="list-style-type: none"> <li>Maintenance-free rechargeable battery 12 V / 2 Ah</li> <li>Dimensions: 177 x 61 x 35 mm (subject to change)</li> </ul>
	<b>AK 1033/601</b>  ItemNo. 1033/601	<b>Aku 12 V – 7 Ah</b> <ul style="list-style-type: none"> <li>Maintenance-free rechargeable battery 12 V / 7 Ah</li> <li>Dimensions: 150 x 100 x 65 mm (subject to change)</li> </ul>

### MODULE RELAY AND IP CONVERTER











	Type/ Item No.	Item/ Description
	<b>MR02</b>  ItemNo. MP7910111	<b>Module relay</b> <ul style="list-style-type: none"> <li>converts electronic outputs into relay outputs</li> <li>Reference voltage adjustable</li> <li>2 channels</li> <li>Switch contact changeover 24 V / 3 A</li> <li>Supply voltage 12 V</li> <li>Dimensions: 70 x 42 x 15 mm</li> </ul>
	<b>IP converter</b>  ItemNo. 39290	<b>IP converter IPD to VDS 2465</b> <ul style="list-style-type: none"> <li>converts contact ID data to VDS-2465 data</li> <li>and sends them to the security service via the Internet</li> <li>Analog telephone input</li> <li>RJ45 connection for connection to router</li> <li>includes 12-volt desktop power supply</li> <li>Incl. patch cable</li> <li>Incl. CD with software for programming the converter</li> <li>Incl. adapter TAE to RJ12 (NFN version)</li> <li>Terminals for external power supply</li> <li>Terminal for fault message</li> <li>Power supply 12-24 V DC</li> <li>Current consumption in standby mode 190 mA</li> <li>Current consumption active state 300 mA</li> <li>Dimensions 175 x 175 x 50 mm</li> <li>A USB-B cable is required for commissioning</li> </ul>

# ALARM SYSTEMS SENSORS



A variety of wired detectors.  
Alarm system 1068 offer security in various  
situations and environments.



- 
-  Motion detectors
  -  Smoke detectors
  -  Heat detectors
  -  Gas detectors
  -  Photoelectric barriers
  -  Magnetic contacts
  -  Shock detectors
  -  Glass break detectors
  -  Electric locking




			
Type	IB 1033/012	IB 1033/013	IB 1033/132
Item No.	1033/012	1033/013	1033/132
Description	Motion detector	Motion detector	Dual motion detector
Sensor	DUAL PIR	DUAL PIR	PIR
Detection zones	18	18	18 on 4 levels
Microwave sensor	---	---	10,525 GHz
Microwave detection	---	---	90° horizontal / 36° vertical
Sensitivity control	---	---	0.5 to 15 m
Range			
Volumetric lens	15 m	12 m	15 m
Curtain lens		---	
Long range lens		---	
Volumetric lens		90°	
Curtain lens		---	
Long range lens		---	
Supply voltage	12 V DC	12 V DC	12 V DC +- 3 V
Power consumption	17 mA	17 mA	8 mA/max. 22 mA
Color		White	
Dimensions	75 x 60 x 45 mm	75 x 60 x 45 mm	107 x 62 x 44 mm
Weight	65 g	65 g	110 g
Recognition		EEN50131-2-4, Grade 2, Class II	
Particularities	Fresnel lens	Fresnel lens, Protection against detection of small animals	Fresnel lens
Optimal accessories		Jointholder IB1033/119	








			
Type	IB 1033/016	IR-1033/168	IR-1033/169
Item. No.	1033/016	1033/168	1033/169
Description	Dual curtain detector	Motion detector UP	Motion detector UP
Sensor	Dual technology: IR +MW	PIR	PIR
Detection zones	10	14	14
Microwave sensor	24 GHz	---	---
Microwave detection	110° horizontal, 90° vertical		
Sensitivity control	Microwave with trimmer		
Range	8 m	10 m	10 m
Detection field		90°	90°
Supply voltage	12 V DC (+/-3V)		
Power consumption standby	Standby: 20 mA, Alarm: max 32 mA	15 mA	15 mA
Color	Gray	Black	White
Dimensions	44 x 110 x 42 mm	50 x 24 x 55 mm	50 x 24 x 55 mm
Weight	108 g	34 g	34 g
Recognition	N50131-2-4 Level 2-Class III		
Particularities	<ul style="list-style-type: none"> <li>• Wall and ceiling mounting possible using optional brackets</li> <li>• Housing polycarbonate IP61</li> <li>• Alarm memory</li> </ul>	<ul style="list-style-type: none"> <li>• For installation in adapters</li> <li>• Suitable for round boxes</li> <li>• Mounting accessories</li> </ul>	<ul style="list-style-type: none"> <li>• For installation in adapters</li> <li>• Suitable for round boxes</li> <li>• For burglar alarm systems</li> <li>• Mounting accessories</li> </ul>
Optional accessories	<ul style="list-style-type: none"> <li>• 90° bracket (IB 1033 / 018)</li> <li>• Swivel moun (IB 1033/019)</li> </ul>	<ul style="list-style-type: none"> <li>• 98264 Adapter for flush-mounted round box,</li> <li>• Black</li> <li>• 98266 surface-mounted housing</li> <li>• IP40</li> </ul>	<ul style="list-style-type: none"> <li>• 98263 Adapter for flush-mounted round box,</li> <li>• White</li> <li>• 98266 surface-mounted housing</li> <li>• IP40</li> </ul>




			
Type	SD 1043/401	SD 1043/402	SD 1043/403
Item. No.	1043/401	1043/402	1043/403
Description	Optical smoke detector	Heat rise detector	Heat detector
Sensor	Smoke	Temperature	Temperature
Sensor technology	Tyndall effect	---	---
Light source	GaAIAs – infrared light-emitting diode	---	---
Three-color LED	Alarm, Error, Normal		
Alarm threshold I	---	+58°C +/- 5 %	+58°C +/- 5 %
Alarm threshold II	---	Rise after A1R	---
Alarm delay	---		
Minimum reset time	300 ms		
Supply voltage	20 V DC	20 V DC	20 V DC (-15%, +10%)
Alternative voltage	12 V DC (deleted from EN54-7)		
Power consumption Normal operation	65 µA	40 µA	40 µA
Power consumption in the event of an alarm	23 mA		
Alarm contact	---		
Operating temperatur	-10 to +50°C +/- 2°C		
Dimensions	Ø 90 mm x 31 mm	Ø 90 mm x 40 mm	Ø 90 mm x 40 mm
Material	ABS		
Color	White		
Particularities	---		
Required accessories	1043/511		





			
Type	SD 1043/404	SD 1043/408	SD 1043/409
Item. No.	1043/404	1043/408	1043/409
Description	Smoke and heat detector	Methane gas detector	Detector for LPG gas
Sensor	Smoke/temperature	Gas sensor	Gas sensor
Sensor technology	Tyndall effect	---	---
Light source	GaAIAs infrared light-emitting diode	---	---
Three-color LED	Alarm, Error, Normal		
Alarm threshold I	+58°C +/- 5 %	0.50% volume	0,18% volume
Alarm threshold II	---		
Alarm delay	---	20 seconds	20 seconds
Minimum reset time	300 ms	30 seconds	30 seconds
Supply voltage	20 V DC (-15%, +10%)	11 to 29V DC	111 to 29V DC
Alternative voltage	12 V DC (ilma EN54-7)	---	---
Power consumption Normal operation	65 µA	60 mA @ 12 V DC 30 mA @ 24 V DC	60 mA @ 12 V DC 30 mA @ 24 V DC
Power consumption in the event of an alarm	23 mA	70 mA @ 12 V DC 40 mA @ 24 V DC	70 mA @ 12 V DC 40 mA @ 24 V DC
Alarm contact	---	1 A, 30 V DC	1 A, 30 V DC
Operating temperatur	-10 to 55°C +/- 2°C	0 to 40°C +/- 2°C	0 to 40°C +/- 2°C
Dimensions	Ø 90 x 40 mm	Ø 90 x 48 mm	Ø 90 x 48 mm
Material	ABS		
Color	White		
Particularities	---	Incl. connection base	Incl. connection base
Required accessories	1043/511	---	---

## ACCESSORIES HAZARD DETECTORS

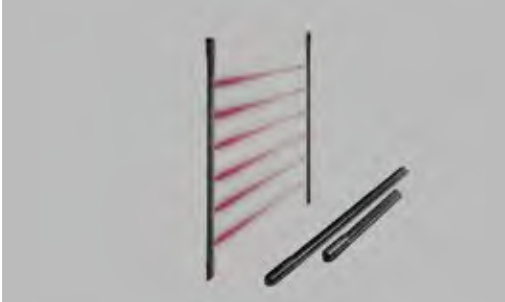

	Type/ Item No.	Item/ Description
	<b>SD 1043/511</b> Item No. 1043/511	<b>Universal base</b> <ul style="list-style-type: none"> <li>• Universal module to accommodate the FD0400 smoke detector and the FDT400 heat detector</li> <li>• for indoor use</li> <li>• with relay output</li> <li>• Relay output: 30V DC, 1A</li> <li>• Material: ABS</li> <li>• Color white</li> <li>• Dimensions: Ø 90 mm</li> </ul>



		
Type	LS 1033/282	LS 1033/283
Item No.	1033/282	1033/283
Description	Light barrier 0.5 meters high	Light barrier 1 meter high
Working methods	<ul style="list-style-type: none"> <li>• Point-to-point beams</li> <li>• Parallel beams</li> <li>• Crossed beams</li> </ul>	
Indoor range	40cm to 20m	
Outside range	40cm to 10m	
Supply voltage	12 V DC (+/- 10 %)	
Power consumption transmitter	<ul style="list-style-type: none"> <li>• at 12 V DC</li> <li>• min. range 16 mA • max. range 47 mA</li> </ul>	<ul style="list-style-type: none"> <li>• at 12 V DC</li> <li>• min. range 20 mA • max. range 73 mA</li> </ul>
Power consumption receiver	<ul style="list-style-type: none"> <li>• at 12 V DC</li> <li>• in rest position 20 mA • in alarm 18 mA</li> </ul>	<ul style="list-style-type: none"> <li>• at 12 V DC</li> <li>• in rest position 26 mA • in alarm 24 mA</li> </ul>
Alarm relay	100 mA/24 V	
Tamper relay	50 mA/12 V	
Protection class	IP65	
Dimensions	540 x 25 x 23 mm	1030 x 25 x 23 mm
Weight	250 g	500 g
Particularities	<ul style="list-style-type: none"> <li>• Synchronization of the beams automatically through optical signals</li> <li>• Installation of several barriers in series or parallel</li> <li>• Tamper protection against opening and dismantling</li> <li>• Small dimensions, installation between window and roller shutter possible</li> <li>• System pre-wired</li> </ul>	






		
Type	LS 1033/284	LS 1033/285
Item No.	1033/284	1033/283
Description	Light barrier 1.5 meters high	Light barrier 2 meters high
Working methods	<ul style="list-style-type: none"> <li>Point-to-point beams</li> <li>Parallel beams</li> <li>Crossed beams</li> </ul>	
Indoor range	40cm to 20m	
Outside range	40cm to 10m	
Supply voltage	12 V DC (+/- 10 %)	
Power consumption transmitter	<ul style="list-style-type: none"> <li>at 12 V DC</li> <li>min. range 24 mA • max. range 99 mA</li> </ul>	<ul style="list-style-type: none"> <li>at 12 V DC</li> <li>min. range 28 mA • max. range 127 mA</li> </ul>
Power consumption receiver	<ul style="list-style-type: none"> <li>at 12 V DC</li> <li>in rest position 32 mA • in alarm 30 mA</li> </ul>	<ul style="list-style-type: none"> <li>at 12 V DC</li> <li>in rest position 38 mA • in alarm 36 mA</li> </ul>
Alarm relay	100 mA/24 V	
Tamper relay	50 mA/12 V	
Protection class	IP65	
Dimensions	1520 x 25 x 23 mm	2020 x 25 x 23 mm
Weight	750 g	1000 g
Eripärad	<ul style="list-style-type: none"> <li>Synchronization of the beams automatically through optical signals</li> <li>Installation of several barriers in series or parallel</li> <li>Tamper protection against opening and dismantling</li> <li>small dimensions, installation between window and roller shutter possible</li> <li>System pre-wired</li> </ul>	



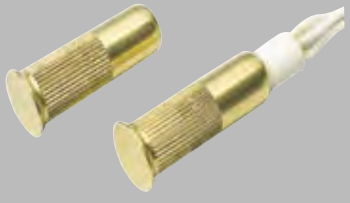

		
Type	LS 1033/392	LS 1033/393
Item No.	1033/392	1033/393
Description	Light barrier 60 meter range	Light barrier 120 meter range
Working methods	• Point-to-point • Modulated IR beams • 2 parallel beams	
Indoor range	250 m	480 m
Outside range	60 m	120 m
Synchronization	4 optical channels selectable via DIP switches	
Reporting of environmental impact:	Open collector output	
Response time setting	50 to 750 ms	
Power supply	10 – 30 V DC	
Power consumption	90 mA	
Power consumption heating	<b>Optional</b> 10 – 30 V • 10/15 V = 6 W, 0,4 A • 20/30 V = 6 W, 0,2 A	
Sabotage contact	Contact NC	
Operating temperatur	-25°C (with heating) to +65°C	
Protection class	IP65	
Dimensions	186 x 76 x 82 mm	
Wall and pole mount	Included	
Color	Black	
Optional accessories	Mounting column ALU 1.5 m 1033 / 290 • Mounting column ALU 2.0 m 1033 / 291 • Heating 1033 / 299	




		
Type	MK 1033/701	MK 1033/702
Item No.	1033/701	1033/702
Description	<b>Magnetic contact attachment</b>	
Assembly	Attachment to windows or doors	
Housing	Plastic: white	
Alert line	Yes	
Sabotage line	Yes	Yes
Length	---	---
Mounting hole	---	---
Functional distance	---	---
Dimensions	7,5 x 13 x 40 mm	13 x 17 x 60 mm
Cable length	ca. 30 cm	Screw terminal
Particularities	IMQA Level 1 • Delivery includes magnet	Delivery includes magnet

		
Type	Magnetic contact 2 m connection	MK 1033/705
Item No.	98300	1033/705
Description	<b>Magnetic contacts, mounting "ON"</b>	
Assembly	Attachment to windows or doors	Attachment to rolling or swing doors
Housing	Plastic: white	Die-cast aluminum
Alert line	Yes	
Sabotage line	No	
Length	---	---
Mounting hole	---	---
Functional distance	---	max. 35 mm
Dimensions	5 x 15 x 60 mm	Contact: 15 x 42 x 130 mm Magnet: 25 x 30 x 98 mm
Cable length	ca. 200 cm	ca. 30 cm
Particularities	<ul style="list-style-type: none"> <li>• Delivery includes magnet</li> <li>• Super flat design</li> </ul>	<ul style="list-style-type: none"> <li>• Delivery includes magnet</li> <li>• "Hard" execution</li> </ul>




	 	
Type	<b>MK 1033/703</b>	<b>MK 1033/713</b>
Item No.	1033/703	1033/713
Description	<b>Magnetic contacts, mounting "IN"</b>	
Assembly	Installation in windows or doors	
Housing	Turned brass	Plastic: white
Alert line	Ja	
Sabotage line	Yes	No
Length	33 mm	33 mm
Mounting hole	8 mm	8 mm
Functional distance	max. 10 mm	max. 10 mm
Dimensions	Ø 8 x 33 mm	Ø 8 x 33 mm
Cable length	ca. 30 cm	
Particularities	MQA Level 1 • Delivery includes magnet	Delivery includes magnet

		
Type	<b>MK 1033/714</b>	
Item No.	1033/714	
Description	<b>Magnetic contacts, mounting "IN"</b>	
Assembly	Installation in windows or doors	
Housing	Plastic: brown	
Alert line	Yes	
Sabotage line	No	
Length	28 mm	
Mounting hole	20 mm	
Functional distance	max. 20 mm	
Dimensions	Ø 20 x 28 mm	
Cable length	ca. 30 cm	
Particularities	• Delivery includes magnet • suitable for armored doors	






## GLASS BREAK AND SHOCK DETECTORS

	Type / Item No.	Item/ Description
	<b>SM 1033/353</b> Item No. 1033/353	<b>Shock detector</b> <ul style="list-style-type: none"> <li>• Seismic vibration detector for mounting on windows/doors or walls</li> <li>• monitored by microprocessor</li> <li>• Alarm and sabotage line</li> <li>• Sensitivity adjustment</li> <li>• Alarm LED</li> <li>• Screw terminals</li> <li>• white plastic housing</li> <li>• Supply: 9V-16V DC; 15mA</li> <li>• Dimensions: 88 x 26 x 20 mm</li> </ul>
	<b>GM 1033/352</b> Item No. 1033/352	<b>Glass break detector</b> <ul style="list-style-type: none"> <li>• Passive glass break sensor</li> <li>• ceramic detector element</li> <li>• Surveillance radius 2 meters</li> <li>• White plastic housing</li> <li>• Pre-assembled two-core cable, 2 meters long</li> <li>• Protection class IP67</li> <li>• Delivery includes adhesive set</li> <li>• Contact load max. 18 V DC, 10 mA</li> <li>• Resistance in stand-by: max. 30 ohms</li> <li>• Dimensions: 12 x 19 x 37 mm</li> </ul>

## ELECTRICAL LOCKING

	Type / Item No.	Item/ Description
	<b>JEB-220</b> Item No. JEB-220	<b>Electric locking</b> <ul style="list-style-type: none"> <li>• Automatic locking when the door is closed</li> <li>• Feedback contact: door open / closed</li> <li>• Locking bolt: 13 mm</li> <li>• Power consumption: 700 mA start / 100 mA</li> <li>• Supply voltage: 12 V DC</li> <li>• Dimensions: 150 x 30 x 22 mm</li> <li>• Weight: 250g</li> </ul>
	<b>JEB-250</b> Item No. JEB-250	<b>Electric locking</b> <ul style="list-style-type: none"> <li>• Automatic locking when the door is closed</li> <li>• Panic function: The electrical locking can be activated using an additional button open at a certain time. Time setting: 0, 3, 6 and 9 seconds</li> <li>• Feedback contact: door open / closed</li> <li>• Locking bolt: 14 mm</li> <li>• Power consumption: 850 mA start / 120 mA</li> <li>• Supply voltage: 12-24 V DC</li> <li>• Dimensions: 210 x 43 x 25 mm</li> <li>• Weight: 400g</li> </ul>

# Contact person

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