

AUDIO-VIDEO DOOR ENTRY & ACCESS CONTROL SYSTEM



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Who is TESLA STROPKOV ?

TESLA STROPKOV is a renowned manufacturer of telecommunications devices and other electronic and electrotechnical equipment from central Europe with more than sixty-year tradition.

What is our production range ?

- terminal telecommunications equipment incl. water and explosion-proof telephone sets,
- entrance and access systems,
- electro-installation products (switches, sockets etc.),
- horns and bells (incl. water and explosion-proof),
- cash registers,
- piezoelectric products (transducers, ringers, indicators, membranes),
- connectors, terminal blocks, switches etc.
- door locks and fittings,
- components for the automotive industry





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AUDIO-VIDEO DOOR ENTRY & ACCESS CONTROL SYSTEM

The 6BUS door entry video system is the 2BUS audio system extended by a power bus and a two-line with a video signal, which is routed from the entrance panel to internal stations always from one videophone to the next one, etc., with the possibility of multiple entrances and a combination of audio and video phones. However, this series connection of the video signal has a significant disadvantage: when one videophone is disconnected, the video signal will be lost for those video phones that are connected behind it. The solution to this risk is the star-connection of the video signal from the added video splitters, which is either complete (all videophones independent from a separate splitter output) or only partial (the system is divided into independent sections connected to the splitter output).

Our Door Entry System is suitable as a gateway to your:

- family house / villa
- apartment / apartment block
- office or administrative building
- school, kindergarten,
- medical facilities
- and other public buildings

GENERAL DESCRIPTION

- audio and video communication between internal station and entrance panel/outside door unit;
- intercom = audio communication between two internal stations (no possibility of simultaneous calls);
- in one apartment/office they can be next to each other of the main phone (audio/video) another 3 secondary phones, ringed by the same button;
- different ringtones according to the origin of the ringtone (from one of the entrance panel, intercom, bell button by the door)
- internal station can activate an associate door lock during a call;
- the lock can also be operated using a proximity reader (RFID) or by entering a numerical code on the keypad by the door;
- the entrance panel has 2 relays for releasing of 2 door locks and integrated camera;
- possibility to connect an additional camera to the entrance panel or to the videophone in front of the apartment door;
- available in different installation types (wall mounted, flush mounted, with or without rain hood);
- the call can be initiate using the bell button or by entering a code on the keypad;
- the possibility to switch other devices with an additional addressable relay on the bus;
- distance from the entrance panel to the last internal station depends on the parameters of the wires;
- nice modern design and excellent quality of materials and workmanship;
- entrance unit has sufficient coverage against water and high resistance to damage;
- maximum construction variability;
- easy installation and maintenance.

2BUS AUDIO

2 WIRES system (twisted pair)

system can include:

- 99 audio entrance panels
- 150 audio internal stations



6BUS VIDEO

6 WIRES system - 1 pair audio, 1 pair video and 1 pair power supply (twisted pairs - CAT5)

system can include:

- 20 video entrance panels + 78 audio entrance panels
- 45 video internal stations + 105 audio stations
- 5 videodistributors in a row



BUS VIDEO GARANT



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AUDIO-VIDEO DOOR ENTRY
& ACCESS CONTROL SYSTEM

INTERNAL STATIONS

Audiophones



Elegant

white 4FP 211 03.201
ivory 4FP 211 03.915
anthracite 4FP 211 03.212



Handsfree

white 4FP 211 42.201
ivory 4FP 211 42.915
black 4FP 211 42.207



Eso

white 4FP 211 23.201
ivory 4FP 211 23.915

Product description of the Elegant:

- 6 buttons (1-6) for selecting the intercom number
- 1 button for activating door lock
- 1 ringtone volume switch
- dimensions: 82x197x49 mm (w x h x d)
- weight: 318 g
- microphone: electret
- handset: low-impedance electrodynamic speaker
- ringer: piezoelectric transducer

Product description of the Handsfree:

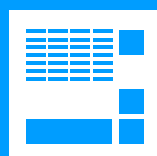
- 2 buttons for accepting and ending the call (ON/OFF)
- 6 buttons (1-6) for selecting the intercom number
- 1 button for activating door lock
- 1 gate activation button
- 1 ringtone volume switch
- 1 call volume switch
- signaling LED
- dimensions: 85x170x38 mm (w x h x d)
- weight: 180 g
- microphone: electret
- acoustic ringing signal: built-in speaker
- speaker: 25 Ohm, 250 mW

Product description of the Eso:

- 6 buttons (1-6) for selecting the intercom number
- 1 button for activating door lock
- 1 ringtone volume switch
- dimensions: 80x215x60 mm (w x h x d)
- weight: 230 g
- microphone: electret
- handset: low-impedance electrodynamic speaker
- ringer: piezoelectric transducer

Functional characteristics:

- eavesdropping prevention (voice communication only with ringed phone)
- possibility of intercom with another phone in the house (if it has the intercom function enabled)
- 4 types of ringtones according to the origin of the ringtone (entrance unit, other phone/intercom, button in front of the apartment door)
- automatic recognition of the opened door lock in systems with multiple entrance units
- hidden programming button for assigning an address
- identification of own address using tones in the handset
- optical signaling of ringing with an integrated LED diode (only Handsfree)
- central power supply from the bus



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INTERNAL STATIONS

Videophones



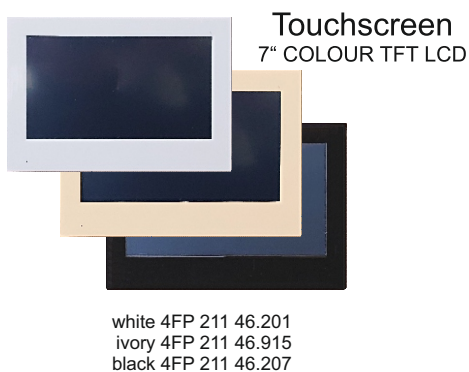
Product description of the Elegant:

6 buttons (1-6) for selecting the intercom number
1 button for activating door lock
1 ringtone volume switch
Image memory: > 50 color images without an additional micro SD card (2 to 32 Gbyte class 6 and higher)
JPG image format; AVI video format
Acoustic ringing signal piezoelectric transducer
Electret microphone
Electrodynamic speaker
Power supply: central from the bus 18 - 24V DC (+18/GND)
Dimensions 165x196x56mm (w x h x d)
Weight 600g
Video input: +KAM/GND
(connection of additional camera with parameters 1Vpp/75 Ohm/PAL, 12V/max.100mA)
Video output: VOUT/GND - full video signal transmitted from the camera in entrance panel
(1Vpp/75 Ohm/PAL)



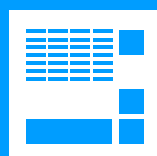
Product description of the Handsfree:

2 buttons for accepting and ending the call (ON/OFF) 6 buttons (1-6) for selecting the intercom number
1 button for activating door lock
1 ringtone volume switch
1 gate activation button
Image memory: > 50 color images without an additional micro SD card (2 to 32 Gbyte class 6 and higher)
JPG image format; AVI video format
Acoustic ringing signal piezoelectric transducer
Electret microphone
Electrodynamic speaker
Power supply: central from the bus 18 - 24V DC (+18/GND)
Dimensions 147x184x47,5mm (w x h x d)
Weight 640g
Video input: +KAM/GND
(connection of additional camera with parameters 1Vpp/75 Ohm/PAL, 12V/max.100mA)
Video output: VOUT/GND - full video signal transmitted from the camera in entrance panel
(1Vpp/75 Ohm/PAL)



Product description of the Touchscreen:

Capacitive touch screen (initialization of the display module approx. 2 sec.)
1 ringtone volume switch
Image memory: > 50 color images without an additional micro SD card (2 to 32 Gbyte class 6 and higher)
JPG image format; AVI video format
Acoustic ringing signal piezoelectric transducer
Electret microphone
Electrodynamic speaker
Power supply: 12V DC / 0,3A stabilized (+12V/GND)
Dimensions 186x128x25mm (w x h x d)
Weight 640g
Power supply
Video input: +KAM/GND
(connection of additional camera with parameters 1Vpp/75 Ohm/PAL, 12V/max.100mA)
Video output: VOUT/GND - full video signal transmitted from the camera in entrance panel
(1Vpp/75 Ohm/PAL)



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NEW DOOR UNIT GARANT

thanks to the excellent quality of the materials and sufficient resistance against water and mechanical damage you can safely place both in the covered entrance, as well as on a gate post or an exposed wall

**HIGH RESISTANCE
AGAINST WATER**



**SLIM
MOUNTING**



**EASY REPLACEMENT
OF NAMES TAGS**



Mount versions:

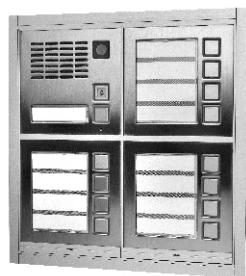
given the orientation:
- vertical / horizontal



relative to the surface:

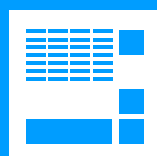
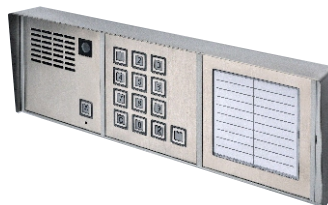
- flush mount with/without rain hood
- surface mount with/without rain hood

Call initiation methods:



- via the bell/call buttons

- via keypad



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MODULES 2BUS/AUDIO and 6BUS/VIDEO
made from brushed stainless steel

ENTRANCE MODULES

AUDIO 2BUS



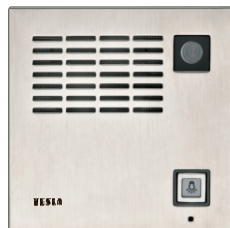
Audio Module EV0 - 4FN 232 00

- without call button
- for both types of call initiation



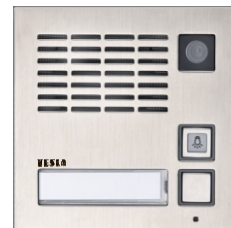
Audio Module EV1 - 4FN 232 01

- 1 call button
- for both types of call initiation



Video Module VEV0 - 4FN 232 20

- without call button
- for both types of call initiation



Video Module VEV1 - 4FN 232 21

- 1 call button
- for both types of call initiation

- integrated camera with 90°/120° field of view and night mode
- 2 relays for opening 2 door openers

VIDEO 6BUS

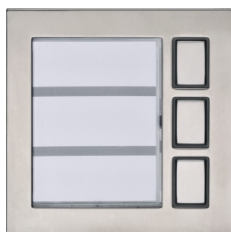
BUTTON MODULES

direct selection of the apartment station



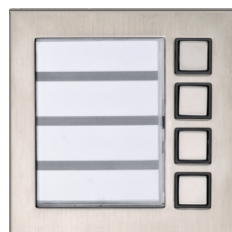
Module TT2 - 4FN 232 02

- 2 call buttons



Module TT3 - 4FN 232 03

- 3 call buttons



Module TT4 - 4FN 232 04

- 4 call buttons



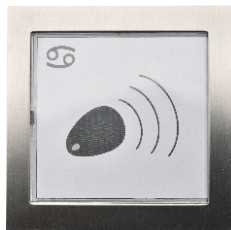
Keypad Module - 4FN 232 13

- possibility of code opening of the door opener

Simple connection to the previous panel with a connecting cable with connectors.

code selection of the station

ADDITIONAL MODULES



Access Control Module RFID
4FN 232 25

- for 1 door with one-way access without event recording
- integrated control+memory unit
- max. 3.000 RFID tags



Blank Module
4FN 232 19

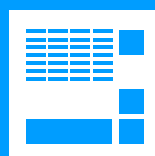


Name List Module 4M
4FN 232 14

- for code selection of the station
- LED backlight

INFO Module
4FN 232 09

- for list of names or list of instructions
- LED backlight



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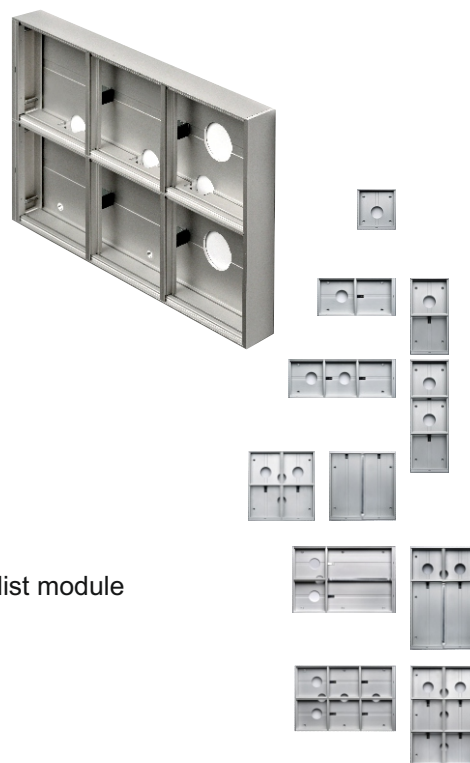
AUDIO-VIDEO DOOR ENTRY
& ACCESS CONTROL SYSTEM

NEW DOOR UNIT GARANT

MOUNTING ACCESSORIES
from aluminium profiles and stainless steel

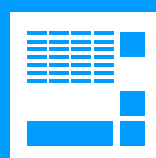
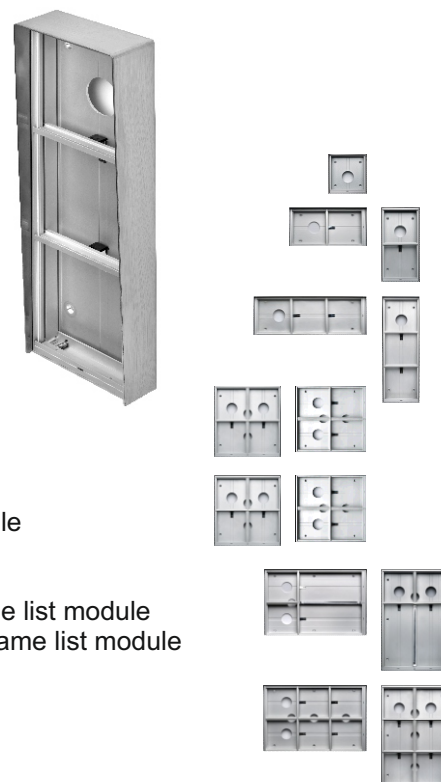
SURFACE MOUNT WITHOUT RAIN HOOD

- 4FK 204 10 Surface housing GARANT for 1 module
- 4FK 204 20 Surface housing GARANT for 2 modules
- 4FK 204 30 Surface housing GARANT for 3 modules
- 4FK 204 40 Surface housing GARANT for 4 modules
- 4FK 204 42 Surface housing GARANT for 4M name list module
- 4FK 204 50 Surface housing GARANT for 2 modules/panels and 4M name list module
- 4FK 204 60 Surface housing GARANT for 6 modules



SURFACE MOUNT WITH RAIN HOOD

- 4FK 204 11 Surface housing with rain hood for 1 module
- 4FK 204 21 Surface housing (vertical) with rain hood for 2 modules
- 4FK 204 22 Surface housing (horizontal) with rain hood for 2 modules
- 4FK 204 31 Surface housing (vertical) with rain hood for 3 modules
- 4FK 204 32 Surface housing (horizontal) with rain hood for 3 modules
- 4FK 204 41 Surface housing (vertical) with rain hood for 4 modules
- 4FK 204 54 Surface housing (horizontal) with rain hood for 4 modules
- 4FK 204 43 Surface housing (vertical) with rain hood for 4M name list module
- 4FK 204 44 Surface housing (horizontal) with rain hood for 4M name list module
- 4FK 204 51 Surface housing (vertical) with rain hood for 2 panels and 4M name list module
- 4FK 204 52 Surface housing (horizontal) with rain hood for 2 panels and 4M name list module
- 4FK 204 61 Surface housing (vertical) with rain hood for 6 modules
- 4FK 204 62 Surface housing (horizontal) with rain hood for 6 modules



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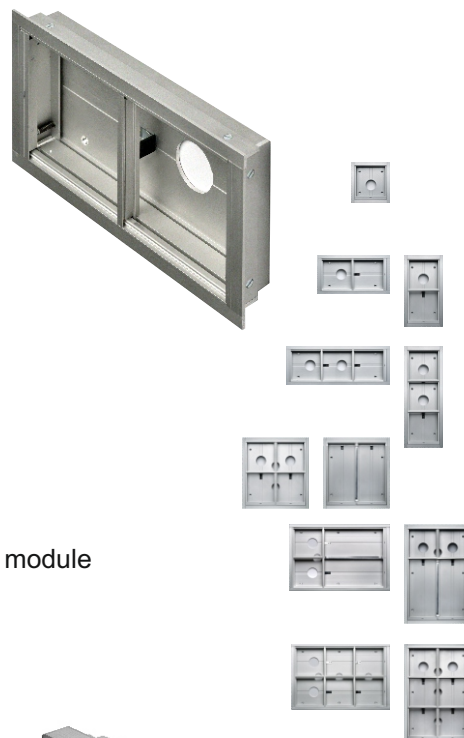
AUDIO-VIDEO DOOR ENTRY
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NEW DOOR UNIT GARANT

MOUNTING ACCESSORIES
from aluminium profiles and stainless steel

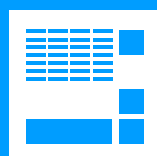
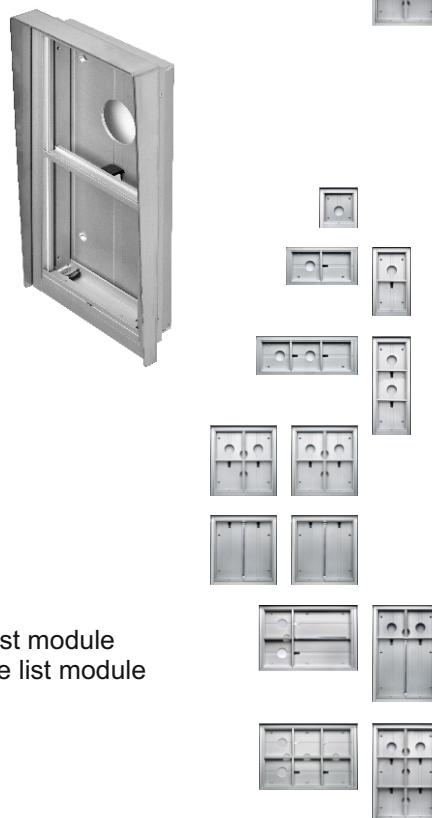
FLUSH MOUNT WITHOUT RAIN HOOD

- 4FK 204 15 Flush housing GARANT for 1 module
- 4FK 204 25 Flush housing GARANT for 2 modules
- 4FK 204 35 Flush housing GARANT for 3 modules
- 4FK 204 45 Flush housing GARANT for 4 modules
- 4FK 204 47 Flush housing GARANT for 4M name list module
- 4FK 204 55 Flush housing GARANT for 2 modules/panels and 4M name list module
- 4FK 204 65 Flush housing GARANT for 6 modules



FLUSH MOUNT WITH RAIN HOOD

- 4FK 204 16 Flush housing with rain hood for 1 module
- 4FK 204 26 Flush housing (vertical) with rain hood for 2 modules
- 4FK 204 27 Flush housing (horizontal) with rain hood for 2 modules
- 4FK 204 36 Flush housing (vertical) with rain hood for 3 modules
- 4FK 204 37 Flush housing (horizontal) with rain hood for 3 modules
- 4FK 204 46 Flush housing (vertical) with rain hood for 4 modules
- 4FK 204 59 Flush housing (horizontal) with rain hood for 4 modules
- 4FK 204 48 Flush housing (vertical) with rain hood for 4M name list module
- 4FK 204 49 Flush housing (horizontal) with rain hood for 4M name list modules
- 4FK 204 56 Flush housing (vertical) with rain hood for 2 panels and 4M name list module
- 4FK 204 57 Flush housing (horizontal) with rain hood for 2 panels and 4M name list module
- 4FK 204 66 Flush housing (vertical) with rain hood for 6 modules
- 4FK 204 67 Flush housing (horizontal) with rain hood for 6 modules



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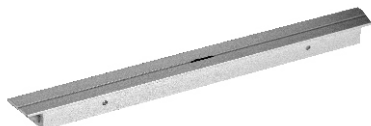
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SPARE PARTS

Locking bar (final)
4FK 203 25



Locking bar (between modules)
4FF 222 22



Key of Locking bar
4FF 441 04



Nameplate cover (door module) Plate cover for INFO module
4FF 160 03 4FF 160 05

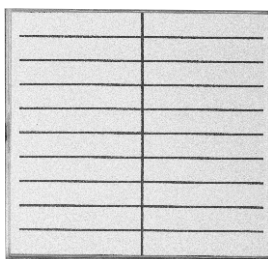
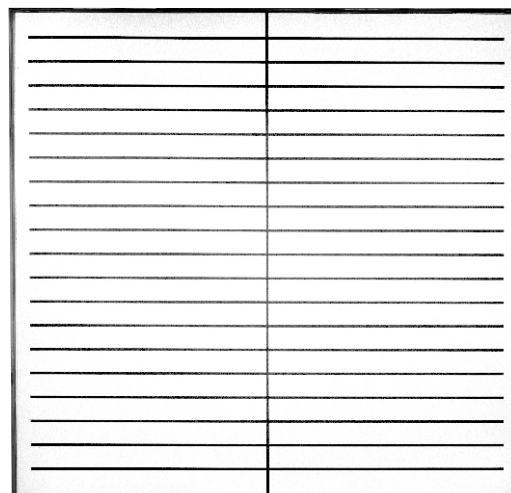


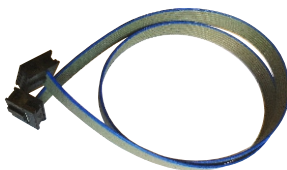
Plate cover for Name list module
4FF 160 06



Nameplate cover (button module)
4FF 160 04



Connection cable
between modules
(8 wires, 400 mm)
4FF 650 65



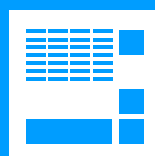
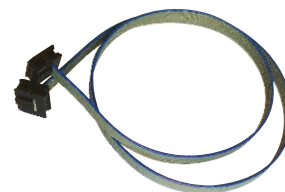
Connection cable
between modules
(8 wires, 250 mm)
4FF 650 64



Connection cable
(door unit - keypad)
(6 wires, 250 mm)
4FF 650 63



Connection cable
(door unit - keypad)
(6 wires, 400 mm)
4FF 650 66



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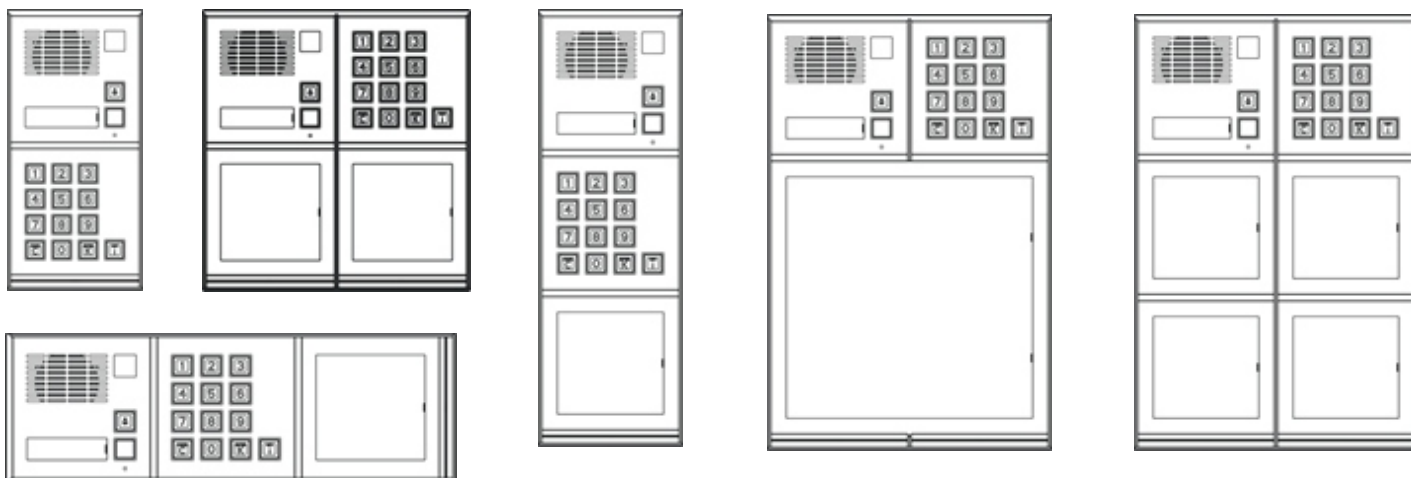


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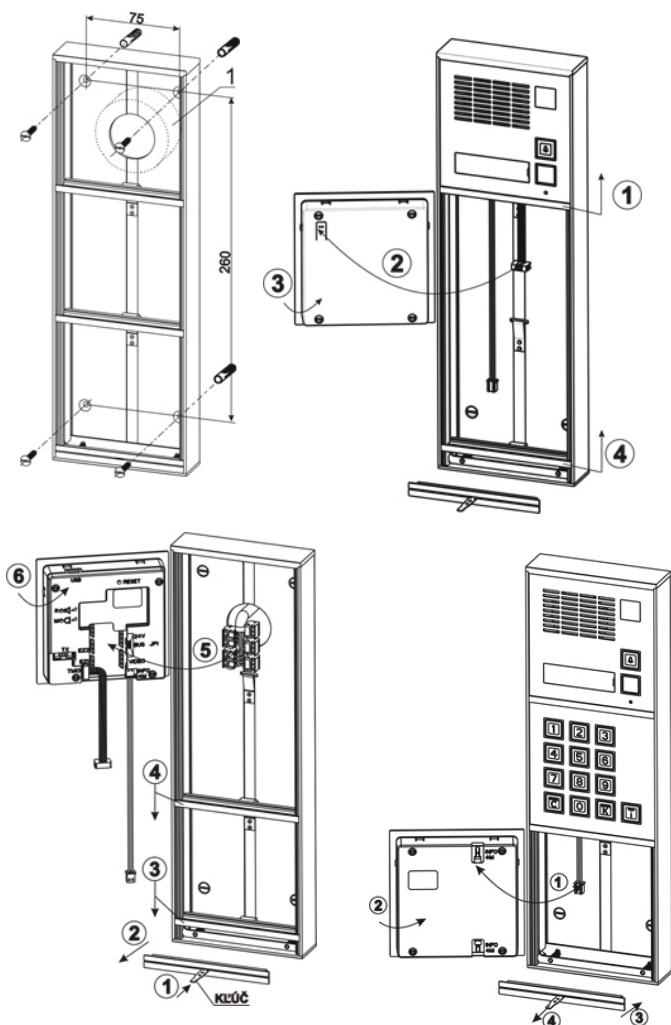
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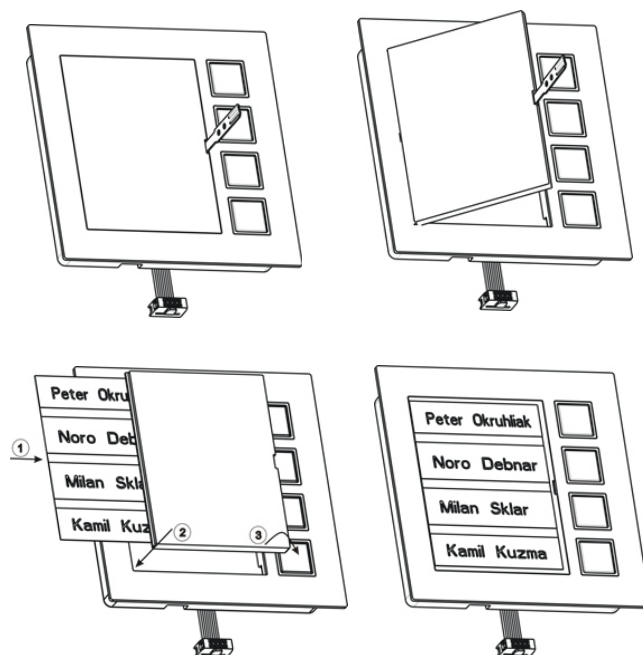
EXAMPLES OF POSSIBLE ARRANGEMENT OF DOOR ENTRY AND CONTROL UNIT



EXAMPLE OF SURFACE MOUNT



NAME TAG EXCHANGE



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AUDIO-VIDEO DOOR ENTRY
& ACCESS CONTROL SYSTEM

OTHER ACCESSORIES

Power Supplies

PS for 2BUS AUDIO (Entrance Unit and Internal stations)



4FP 672 57

Input Voltage: 230V/50Hz (25VA)
 Output Voltage: 24VDC/250mA (stabilized) and 9VAC/0,7A (for AC door lock)
 Number of phones: max. 50 when initiated by bell buttons and 100 when code dialing/keypad
 Dimensions: 70 (4xDIN) x 99 x 67,5 mm

PS for door locks or access control unit (not together)



4FP 672 61

Input Voltage: 230V/50Hz (25VA)
 Output Voltage: 9VAC / 1,4A or 12VDC / 1,2A
 Dimensions: 70 (4xDIN) x 99 x 67,5 mm

PS for 2BUS AUDIO and 6BUS VIDEO (Entrance Unit and Internal stations)



4FP 672 49

Input Voltage: 230V/50Hz (25VA)
 Output Voltage: 24VDC/500mA (stabilized) and 9VAC/1A or 12VDC/0,5A (for door lock)
 Number of phones: max. 150 audiophones and videophones according to their type
 Dimensions: 153 (9xDIN) x 99 x 67,5 mm

PS for 6BUS VIDEO (Entrance Unit and Touchscreen Internal stations)



4FP 675 01

Input Voltage: 230V/50Hz (25VA)
 Output Voltage: 24VDC/700mA (stabilized) and 12VDC/1,5A (for Touchscreen phones)
 Number of phones: max. 5 Touchscreen videophones
 Dimensions: 70 (4xDIN) x 99 x 67,5 mm

Video splitter

The video splitter is designed for 6BUS entrance videosystem to split the video signal along the lines up to a distance of approx. 300 m. It enables video door entry systems with a star wiring distribution of internal stations (videophones) to multiple videophones or branches (star connection - one splitter for up to 4 video telephones/branches), or to amplify the video signal in the event of a large loss of signal level on a long line. The fundamental advantage of using splitters is the independence of the video signal of individual video phones/branches from each other, i.e. when disconnecting one videophone will occur to the loss of the video signal only for those videophones that are connected behind it. To a small extent it also enables gain regulation by setting the PR1 jumper to the position according to the line length (100m, 200m, 300m) and fine-tuning the gain with the resistance trimmer RP5. The maximum number of splitters connected in a cascade (in series) can be 5. Connecting more splitters in a cascade than recommended can reduce the quality of the video signal and, due to the influence of different cable lengths, interference may appear in the picture.

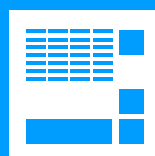
They are impedance-matched for "category 5" UTP cable, so we do not recommend using other types of cables for video signal transmission!
 We mount the video splitter on a DIN rail, for which its lower cover with locking latch is adapted.

It has one input (from entrance unit or previous splitter) and 4 outputs.

4FN 169 02



Power supply: 15 - 24 VDC
 Dimensions: 71(4xDIN)x90,2x57,7 mm
 Weight: 100g
 Input: audio+video from entrance unit or previous splitter
 Output: 4 (to videophones or next splitter)



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OTHER ACCESSORIES

Electromechanical door locks (openers)

AC Door Locks

Type	Description		Dimensions (mm)	Voltage	Current
4FN 877 01	standard AC lock without mechanical release		24x100x61	6-8 V	0.6-0.8A
4FN 877 02	standard AC lock with mechanical release		24x100x61	6-8 V	0.6-0.8A
4FN 877 03	standard AC lock without mechanical release		24x250x31	6-8 V	0.6-0.8A
4FN 877 11	standard AC lock with adjustable latch		24x250x31	6-8V	0.6-0.8A
4FN 877 12	standard AC lock adjustable latch and torque pin		24x250x31	6-8V	0.6-0.8A
4FN 877 13	standard AC with adjustable latch and mechanical release		24x250x31	6-8V	0.6-0.8A
4FN 877 14	standard AC with adjustable latch, torque pin and mech. release		24x250x31	6-8 V	0.6-0.8A

Universal AC/DC Door Locks

Type	Description	Dimensions	Voltage	Current AC / DC
4FN 877 15/K	universal AC/DC lock without mechanical release	20x100x31	8-12 V	350-400mA 560-600mA
4FN 877 15	universal AC/DC lock without mechanical release	20x250x31	8-12 V	350-400mA 560-600mA
4FN 877 16/K	universal AC/DC lock with mechanical release	20x100x31	8-12 V	350-400mA 560-600mA
4FN 877 16	universal AC/DC lock with mechanical release	20x250x31	8-12 V	350-400mA 560-600mA

DC Door Locks with sound signaling

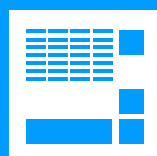
Type	Description	Dimensions (mm)	Voltage	Current
4FN 877 17/K	DC lock with signaling without mechanical release	20x100x31	10-12 V	max. 230 mA
4FN 877 17	DC lock with signaling without mechanical release	20x250x31	10-12 V	max. 230 mA
4FN 877 18/K	DC lock with signaling with mechanical release	20x100x31	10-12 V	max. 230 mA
4FN 877 18	DC lock with signaling with mechanical release	20x250x31	10-12 V	max. 230 mA

DC inverse Door Locks (energized closed)

Type	Description	Dimensions (mm)	Voltage	Current
4FN 877 19/K	Inverse DC lock without mechanical release	20x100x31	12 V	max.170 mA
4FN 877 19	Inverse DC lock without mechanical release	20x250x31	12 V	max.170 mA
4FN 877 20/K	Inverse DC lock with mechanical release	20x100x31	12 V	max.170 mA
4FN 877 20	Inverse DC lock with mechanical release	20x250x31	12 V	max.170 mA

Door Lock Switching Module 4FK 176 66

The Door Lock Switching Module is an additional accessory to the entrance panel in the case of too long wiring, when the loop resistance of the connecting wires is greater than 4 Ohms, causing the door lock to operate unreliably. The relay contact of this switching module disables part of the line between the entrance panel and the indoor station, however the switching module has no effect on the part of the line between power supply and the door lock.

**4FK 176 66****GARANT**
NEW DESIGN LINE

**TESLA****STROPKOV, a.s.****AUDIO-VIDEO DOOR ENTRY
& ACCESS CONTROL SYSTEM**

Additional signalization of ringing

Additional bell

Can repeat the audio/video door entry call in several rooms. The connection is completed with 2 wires directly connected to the clamps of the appropriate internal station.
Wall-mounted installation.

Supply voltage: ring voltage of the internal station 16-24 Vpp
(ringtone identical to the internal station)

Top cover: plastic

Ringer type: piezoelectric transducer

Dimensions: 65 x 90 x 27 mm

**4FN 605 22**

Additional opto-acoustic switched horn

Switched electronic horns are used in the door entry system as additional opto-acoustic signaling for 2BUS audio or 6BUS video internal stations. The type of horn depends on the method required signaling (sound, light or combined), volume and mounting method. They are powered by a standard voltage of 12V AC/DC and switched by a ringing signal from appropriate internal station.

Type	No.	Voltage	Volume	Light	Mounting	Dimensions	Weight
HVS100-12LED-R	4FN 601 31.2	12VDC/AC	95 dB	red	vertical	238x82,5x91,5mm	200±5 g
HVS100-12LED-0	4FN 601 31.4	12VDC/AC	95 dB	orange	vertical	238x82,5x91,5mm	200±5 g
HVS85-12LED-R	4FN 601 33.2	12VDC/AC	85 dB	red	vertical	125x82,5x91,5mm	155±5 g
HVS85-12LED-0	4FN 601 33.4	12VDC/AC	85 dB	orange	vertical	125x82,5x91,5mm	155±5 g
HVS85-12	4FN 601 35	12VDC/AC	85 dB	-	vertical	82x82,5x91,5mm	115±5 g
HVS100-12	4FN 601 37	12VDC/AC	95 dB	-	vertical	195x82,5x91,5mm	160±5 g
HHS85-12LED-R	4FN 601 39.2	12VDC/AC	85 dB	red	horizontal	105,5x105,5x134mm	185±5 g
HHS85-12LED-0	4FN 601 39.4	12VDC/AC	85 dB	orange	horizontal	105,5x105,5x134mm	185±5 g

Technical data:

Operating temperature: - 20 °C + 50 °C

Degree of protection: IP 65

Supply voltage: 11 ÷ 13 VAC or 12 ÷ 14 VDC

Consumption: 12 VDC: - sound signaling - max. 70 mA
- light signaling - max. 150 mAAVG
- sound + light signaling - max. 220 mAAVG
12 VAC: - sound signaling - max. 120 mA
- light signaling - max. 180 mAAVG
- sound + light signaling - max. 300 mAAVG

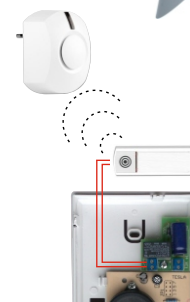
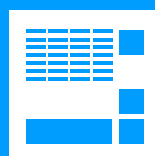
Acoustic pressure (volume level): - for "HV100 .." - min. 95 dB / 1m
- for "HV85 .." and "HH85 .." - min. 85 dB / 1m

Light signaling: LED flashing 75 ÷ 125 x / 1 min.



Wireless doorbell switch

The wireless doorbell switch is used to switch on the wireless doorbell transmitter (button contacts) when the internal station rings from the entrance panel. The transmitter (in the doorbell button) sends a signal to the wireless doorbell receiver, which then rings at the same time as the internal station. When you pick up the handset, the ringing stops. This switch is placed directly into the internal station as an additional PCB. It can be used in combination with any set of wireless doorbells (button with transmitter + doorbell with receiver).

**4FK 179 56****GARANT**
NEW DESIGN LINE



TESLA

STROPKOV, a.s.

AUDIO-VIDEO DOOR ENTRY
& ACCESS CONTROL SYSTEM

OTHER ACCESSORIES

Additional addressable relay

Using this switching module connected to the bus, it is possible to switch on/off other additional device from the internal station, such as light, door lock, barrier, warning device with a maximum switching voltage of 24 V and a maximum current of 1A. Control of more powerful device (corridor, garden light, barrier, etc.) is possible through contactors controlled by this switching module.

Ways to control the switching module:

1. by entering the 1-digit address on the keypad of internal station
2. by entering the 4-digit code on the keypad of internal station (as an intercom call in a 2BUS system) or on the keypad of entrance panel
3. with the GATE button on the HandsFree audio or video internal stations

Properties:

- switching time setting in the range of 1-99 s
- when the switching module is activated, the possibility of switching on (switch relay contacts IN-NO) or switching off (switching module relay contacts IN-NC) the connected load
- the possibility of early shutdown before the set switching time expires

Technical parameters:

Power supply: from the bus

Current consumption in idle state: max. 95 μ A

Max. switching voltage of the door lock relay: 24 VDC / 24 VAC at $I < 1$ A

Relay switching time: 1 - 99 s

Weight: 66 grams

Dimensions: 65 x 90 x 25 mm

Ambient operating temperatures - 25 to +45 °C



Additional switch 230V/50Hz

It is an electronic device designed to switch an additional 230V/50Hz signaling equipment (a light or acoustic horn) activated by the ringing of audio or video interal station, which highlights the ringtone in a noisy environment at a greater distance.

Technical parameters:

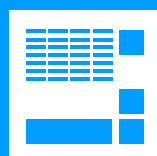
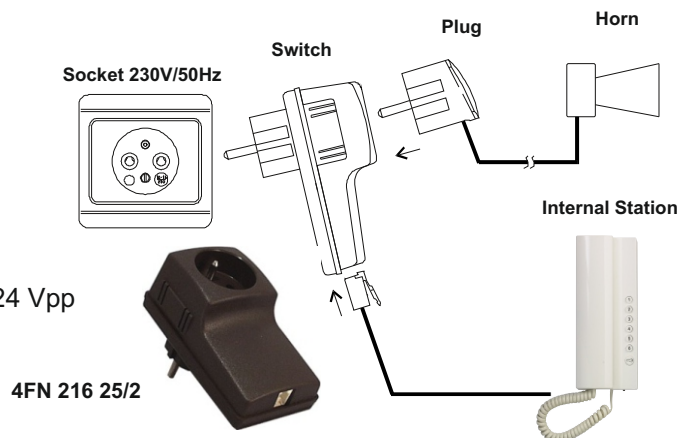
Mains input: 180 - 250 VAC / 50Hz

Mains output: controlled mains voltage 180-250 VAC / 50Hz

Load on mains output: 0-500 VA

Load protection: device tube fuse T-2.5 A/250V

Switching input (RJ11): ring voltage of the internal station 16-24 Vpp



GARANT
NEW DESIGN LINE



TESLA

STROPKOV, a.s.

AUDIO-VIDEO DOOR ENTRY
& ACCESS CONTROL SYSTEM

ACCESS CONTROL

RAK = Simple compact system for 1 door with one-way access without entry recording

- low-cost variant with a control/memory unit integrated in the reader module

RAK is an simple compact system for one-way access control of one door (only one reader, e.g. entrance) without recording information about entry/exit. The advantage of this system is its simplicity and the fact that everything is integrated in the module of entrance panel, which contains both a reader for reading RFID chips/tags, as well as a control memory unit (CMU) and a relay for controlling the door lock/opener.

The basic function is to release the door lock/opener using the RFID tag, which is registered in the database of the control memory unit.

The RAK system is able to work independently without connecting to a PC after programming CMU.

It is possible to register, update and delete RFID tags in the database using the special RAK software after connecting to a PC (via USB cable).

Technical parameters:

- power supply: 8 - 15 V AC, 9 - 24 V DC
- chip type: EM4100, 125 KHz
- integrated reader: RFID, 125 KHz

Programming:

- manually - PRG and DEL buttons on the PCB
- Master function
- software RAK - by connecting to a PC via USB
- from an android device via the RAK mobile application (by RAK BLUETOOTH type)

Outputs:

- 1 x relay 8A / 250VAC
- 1 x USB (socket B) for connecting to a PC (recommended max. length 2m USB cable)
- terminals for connecting the output button
- user capacity: 800 identifiers/chips/tags
- release time door lock: set from 1 to 30s (from PC via RAK software)
- 1 x 3-pin connector (Rxd/Txd) (only for type RAK BLUETOOTH) to connect an external reader: ACCESS 7AH (125 kHz), ACCESS 7C 2.0 (Mifare 13.56 Mhz) or ACCESS 8CD 2.0 (DESFire 13.56 MHz)



4FN 232 25

RAK RFID GARANT

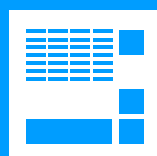
This module is intended for the GARANT entrance panel together with other modules or separately in the flush or surface housing with or without the rain hood (see page 8 and 9). In addition to the 125 kHz RFID reader, it has an integrated control memory unit that includes a switching relay for opening the door lock, contacts for connecting the exit button and a USB port for connecting to a PC.



4FN 232 25/M1

RAK BLUETOOTH GARANT

This module is intended for the GARANT entrance panel together with other modules or separately in the flush or surface housing with or without the rain hood (see page 8 and 9). Compared to the RAK RFID GARANT module, it includes a 3-pin connector for connecting an external reader with RS232 output (e.g. ACCESS 7AH) and a Bluetooth module for wireless connection to a mobile Android device, which enables the management of identifiers/tags from your smartphone (android) via the RAK mobile application. Bluetooth connection is password protected. The application is used to add, delete and update the database of identifiers, it facilitates the management of the database if the CMU is installed in the entrance panel. It is enough to come near the CMU (within range of the bluetooth signal), connect and make the necessary adjustments.





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AUDIO-VIDEO DOOR ENTRY
& ACCESS CONTROL SYSTEM

ACCESS CONTROL

UNINET = Network system for more doors with entry/exit recording

UNINET is a sophisticated access system with self-contained Control Memory Units (CMU) connected to the network via the RS485 bus, Ethernet or WIFI (possibility of remote management via the Internet).

UNINET enables double-sided control of one door (2 readers, entry/exit) with entry/exit recording, or one-way control (only entry) of 2 doors. It is possible to connect both self-reliant DALLAS or RFID readers, as well as RFID GARANT reader modules, which have an integrated contactless RFID reader.

The basic function is the releasing of door lock using the DALLAS/RFID identifier/tag, which is registered in the CMU database. An extended function is the control of the door status using the Door Time Sensor (DTS) function incl. sound signaling of relay switching and door opening by piezo signalizer. After connecting to a PC via a USB-RS485 programmer-converter, the BBIQ software allows, in addition to registering, updating and deleting identifiers/tags in the database, also monitoring the recorded info about entries and exits through individual doors (from a given CMU).

Control Memory Units (CMU)

CMU UNINET RS485



UNI-1219002 and UNI-1219004-FLASH

This CMU belongs to a new series of firmware units with a new type of processor. It supports both technologies - RFID and iButton, i.e. a RFID and DALLAS readers can be connected to the CMU at the same time. It enables two-way control of one door with independent recording of entries and exits. It ensures control of the door status using the Door Time Sensor (DTS) function. It is connected to a PC via a USB-RS485 programmer-converter. This basic CMU has a memory for 2000 users, a larger range of the Wiegand reading protocol and a new PIEZO function which via DIP switch 6 and software settings enables sound signaling of relay switching and door opening using a piezo signalizer integrated in the CMU. Before the actual software setting of the properties in the BBIQ software, it is necessary to set the network address to the CMU using DIP switches No. 1-5.

Technical parametres:

supported identifiers: - RFID tag/card according to the type of RFID reader
(125 kHz, MIFARE Classic 13.56 Mhz, DESFire EV1 13.56 Mhz)
- DALLAS chips/tags (iButton DS1990R-F5)

reading protocol: WIEGAND 26bit, 32bit, 34bit, 56bit

power supply: 8 - 15 VAC / 12 - 24 VDC

consumption: 80 mA (at rest), 150 mA (in operation)

number of users (identifiers): 2000

number of offline records: 1800 (FLASH version 40000 records)

number of CMUs in the system: 31

DTS - Door Time Sensor (door status check, set via DIP No. 6)

ZPK (closing contacts) - opening by an external impulse from the internal station

PIEZO - relay and door status signaling using piezo signal, set via DIP No. 6 and BBIQ software

TX Code - loading identifiers from OPJ via address 31

connection to the Ethernet network via the ETHERNET-RS485 USR-K2 converter

door lock release time: adjustable from 1 to 12 s, set via DIP no. 7 and 8

RTC real time clock

dimensions: 90 x 105 x 66 mm

mounting method: surface on DIN rail

Inputs:

for 2 RFID readers

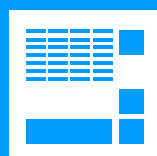
for 2 DALLAS (iButton) readers

Outputs:

2 x relays 8 A / 250 VAC

1x door control relay

1x signaling relay



GARANT

NEW DESIGN LINE



TESLA

STROPKOV, a.s.

AUDIO-VIDEO DOOR ENTRY
& ACCESS CONTROL SYSTEM

ACCESS CONTROL

UNINET = Network system for more doors with entry/exit recording

Control Memory Units (CMU)

CMU UNINET RS485 DUO



UNI-1219003

This CMU belongs to a new series of firmware units with a new type of processor. It supports both technologies - RFID and iButton, i.e. a RFID and DALLAS readers can be connected to the CMU at the same time. It enables one-way independent control of two doors (always with one reader at the entrance), i.e. where a high level of security is not required without the need to record information about the exit. For exit, there is the possibility to use a reader connected in parallel or an exit button. For example, in an apartment building, one CMU DUO can secure access to the laundry room and the bike room. Applying the identifier to RFID reader 1 releases the door lock to the laundry room (the first relay - R1 is activated), applying the identifier to reader 2 releases the door lock to the bike room (the second relay - R2 is activated). It means, that the identifier assigned to a given CMU can control both relays! The user therefore has the option of entering both secured doors. This setting cannot be changed. It is therefore not possible to determine access rights for individual identifiers with regard to individual secured doors/spaces. If it is necessary to create groups of users with different user rights, it is necessary to use a different type of CMU. This type of CMU is also not recommended for controlling doors that serve as escape exits in the building!

This CMU also ensures control of the door status using the Door Time Sensor (DTS) function. It is connected to a PC via a USB-RS485 programmer-converter. This basic CMU has a memory for 2000 users, a larger range of the Wiegand reading protocol and a new PIEZO function which via DIP switch 6 and software settings enables sound signaling of relay switching and door opening using a piezo signalizer integrated in the CMU. Before the actual software setting of the properties in the BBIQ software, it is necessary to set the network address to the CMU using DIP switches No. 1-5.

Technical parametres:

supported identifiers: - RFID tag/card according to the type of RFID reader
(125 kHz, MIFARE Classic 13.56 Mhz, DESFire EV1 13.56 Mhz)
- DALLAS chips/tags (iButton DS1990R-F5)

reading protocol: WIEGAND 26bit, 32bit, 34bit, 56bit

power supply: 8 - 15 VAC / 12 - 24 VDC

consumption: 80 mA (at rest), 150 mA (in operation)

number of users (identifiers): 2000

number of offline records: 1800

number of CMUs in the system: 31

ZPK (closing contacts) - opening by an external impulse from the internal station

PIEZO - relay and door status signaling using piezo signal, set via DIP No. 6 and BBIQ software

TX Code - loading identifiers from OPJ via address 31

connection to the Ethernet network via the ETHERNET-RS485 USR-K2 converter

door lock release time: adjustable from 1 to 12 s, set via DIP no. 7 and 8

RTC real time clock

dimensions: 90 x 105 x 66 mm

mounting method: surface on DIN rail

Inputs:

for 2 RFID readers

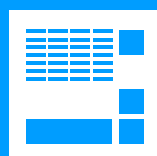
for 2 DALLAS (iButton) readers

Outputs:

2 x relays 8 A / 250 VAC

1x door control relay

1x signaling relay



GARANT

NEW DESIGN LINE



TESLA

STROPKOV, a.s.

AUDIO-VIDEO DOOR ENTRY
& ACCESS CONTROL SYSTEM

ACCESS CONTROL

UNINET = Network system for more doors with entry/exit recording

Control Memory Units (CMU)

CMU UNINET ETHERNET



UNI-1218004

This CMU belongs to a new series of firmware units with a new type of processor. It supports both technologies - RFID and iButton, i.e. a RFID and DALLAS readers can be connected to the CMU at the same time. It enables two-way control of one door with independent recording of entries and exits. It ensures control of the door status using the Door Time Sensor (DTS) function. It is connected to a PC via a USB-RS485 programmer-converter.

This CMU has an RJ45 connector for connecting to a PC via a local LAN computer network. The number of CMUs in the system depends on the number of free IP addresses in the system. The IP address is set via the USR-TCP232 application. This SMU supports loading identifiers from the CMU via address 31. Before programming the CMU, it is necessary to assign each CMU in the system its own IP address in the BBIQ software.

This CMU has a memory for 2000 users, a larger range of the Wiegand reading protocol and a new PIEZO function which via DIP switch 6 and software settings enables sound signaling of relay switching and door opening using a piezo signalizer integrated in the CMU. Before the actual software setting of the properties in the BBIQ software, it is necessary to set the network address to the CMU using DIP switches No. 1-5.

Technical parametres:

supported identifiers: - RFID tag/card according to the type of RFID reader
(125 kHz, MIFARE Classic 13.56 Mhz, DESFire EV1 13.56 Mhz)
- DALLAS chips/tags (iButton DS1990R-F5)

reading protocol: WIEGAND 26bit, 32bit, 34bit, 56bit

power supply: 8 - 15 VAC / 12 - 24 VDC

consumption: 80 mA (at rest), 150 mA (in operation)

number of users (identifiers): 2000

number of offline records: 1800

number of CMUs in the system: according to the number of free IP addresses

integrated ethernet modem USR-K2 with socket for RJ45 connector

connection to a PC via a local LAN network

setting IP addresses through the USR_TCP232 application

for connection to a PC, it is possible to use a crossover or a straight cable, see the USR manual, the system has its own IP address.

DTS - Door Time Sensor (door status check, set via DIP No. 6)

ZPK (closing contacts) - opening by an external impulse from the internal station

PIEZO - relay and door status signaling using piezo signal, set via DIP No. 6 and BBIQ software

TX Code - loading identifiers from OPJ via address 31

connection to the Ethernet network via the ETHERNET-RS485 USR-K2 converter

door lock release time: adjustable from 1 to 12 s, set via DIP no. 7 and 8

RTC real time clock

dimensions: 90 x 105 x 66 mm

mounting method: surface on DIN rail

Inputs:

for 2 RFID readers

for 2 DALLAS (iButton) readers

Outputs:

2 x relays 8 A / 250 VAC

1x door control relay

1x signaling relay



GARANT

NEW DESIGN LINE



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AUDIO-VIDEO DOOR ENTRY
& ACCESS CONTROL SYSTEM

ACCESS CONTROL

UNINET = Network system for more doors with entry/exit recording

Control Memory Units (CMU)

CMU UNINET WIFI



UNI-1218002

This CMU belongs to a new series of firmware units with a new type of processor. It supports both technologies - RFID and iButton, i.e. a RFID and DALLAS readers can be connected to the CMU at the same time. It enables two-way control of one door with independent recording of entries and exits. It ensures control of the door status using the Door Time Sensor (DTS) function. It is connected to a PC via a USB-RS485 programmer-converter.

This OPJ connects to the PC via a wireless WiFi network. The number of CMUs in the system depends on the number of free IP addresses in the system. The IP address is set via the USR-TCP232 application. This SMU supports loading identifiers from the CMU via address 31. Before programming the CMU, it is necessary to assign each CMU in the system its own IP address in the BBIQ software.

This CMU has a memory for 2000 users, a larger range of the Wiegand reading protocol and a new PIEZO function which via DIP switch 6 and software settings enables sound signaling of relay switching and door opening using a piezo signalizer integrated in the CMU. Before the actual software setting of the properties in the BBIQ software, it is necessary to set the network address to the CMU using DIP switches No. 1-5.

Technical parametres:

supported identifiers: - RFID tag/card according to the type of RFID reader
(125 kHz, MIFARE Classic 13.56 Mhz, DESFire EV1 13.56 Mhz)
- DALLAS chips/tags (iButton DS1990R-F5)

reading protocol: WIEGAND 26bit, 32bit, 34bit, 56bit

power supply: 8 - 15 VAC / 12 - 24 VDC

consumption: 80 mA (at rest), 150 mA (in operation)

number of users (identifiers): 2000

number of offline records: 1800

number of CMUs in the system: according to the number of free IP addresses

wireless connection to PC via WiFi network

setting of IP addresses via the web interface

WiFi antenna 802.11 b/g/n

DTS - Door Time Sensor (door status check, set via DIP No. 6)

ZPK (closing contacts) - opening by an external impulse from the internal station

PIEZO - relay and door status signaling using piezo signal, set via DIP No. 6 and BBIQ software

TX Code - loading identifiers from OPJ via address 31

connection to the Ethernet network via the ETHERNET-RS485 USR-K2 converter

door lock release time: adjustable from 1 to 12 s, set via DIP no. 7 and 8

RTC real time clock

dimensions: 90 x 105 x 66 mm

mounting method: surface on DIN rail

Inputs:

for 2 RFID readers

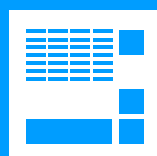
for 2 DALLAS (iButton) readers

Outputs:

2 x relays 8 A / 250 VAC

1x door control relay

1x signaling relay



GARANT
NEW DESIGN LINE



TESLA

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AUDIO-VIDEO DOOR ENTRY
& ACCESS CONTROL SYSTEM

ACCESS CONTROL

UNINET = Network system for more doors with entry/exit recording

Control Memory Units (CMU)

CMU UNINET RS232



UNI-1218006

This CMU belongs to a new series of firmware units with a new type of processor. It supports both technologies - RFID and iButton, i.e. a RFID and DALLAS readers can be connected to the CMU at the same time. It enables two-way control of one door with independent recording of entries and exits. It ensures control of the door status using the Door Time Sensor (DTS) function. This CMU has a memory for 2000 users, a larger range of the Wiegand reading protocol and a new PIEZO function which via DIP switch 6 and software settings enables sound signaling of relay switching and door opening using a piezo signalizer integrated in the CMU. The actual properties you can set in the BBIQ software.

Unlike other UNINET CMUs, it is not intended to be connected to a network, but through the fitted RS232 connector it is possible to connect the OPJ directly to a PC and thus create a simple access system for one door with bilaterally controlled access with all the software comfort of the BBIQ program. OPJ UNISÍŤ RS232 is suitable for receptions, gatekeepers, offices and where control of only one entrance door is required with a direct online connection to a PC over a short distance (15m).

Technical parametres:

supported identifiers: - RFID tag/card according to the type of RFID reader
(125 kHz, MIFARE Classic 13.56 Mhz, DESFire EV1 13.56 Mhz)
- DALLAS chips/tags (iButton DS1990R-F5)

reading protocol: WIEGAND 26bit, 32bit, 34bit, 56bit

power supply: 8 - 15 VAC / 12 - 24 VDC

consumption: 80 mA (at rest), 150 mA (in operation)

number of users (identifiers): 2000

number of offline records: 1800

number of CMUs in the system: 1

DTS - Door Time Sensor (door status check, set via DIP No. 6)

ZPK (closing contacts) - opening by an external impulse from the internal station

PIEZO - relay and door status signaling using piezo signal, set via DIP No. 6 and BBIQ software

TX Code - loading identifiers from OPJ via address 31

direct connection to a PC with a special cable via the RS232 serial port (Canon 9PIN socket Rs232)

door lock release time: adjustable from 1 to 12 s, set via DIP no. 7 and 8

RTC real time clock

dimensions: 90 x 105 x 66 mm

mounting method: surface on DIN rail

Inputs:

for 2 RFID readers

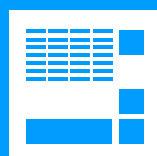
for 2 DALLAS (iButton) readers

Outputs:

2 x relays 8 A / 250 VAC

1x door control relay

1x signaling relay



GARANT

NEW DESIGN LINE



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AUDIO-VIDEO DOOR ENTRY
& ACCESS CONTROL SYSTEM

ACCESS CONTROL

UNINET = Network system for more doors with entry/exit recording

RFID READERS

RFID GARANT

This RFID reader module is used to connect to the CMU of the UNINET access system. It contains the SR-1EM contactless RFID reader, which is also suitable for outdoor use. This module can be installed in the GARANT 2BUS or 6BUS entrance panel, however, it depends on whether the panel is a vertical or horizontal construction. It can also be mounted separately in the flush or surface housing with or without the rain hood (see page 8 and 9).

EM 125 kHz technology uses communication between the reader and the tag only one-way, i.e. the tag sends its UID number without additional authentication elements. After copying the UID number of the tag, it is possible under certain conditions to create a clone or copy and use it in the given access system. It means that this technology provides only low data security.

WARNING: If the reader is placed near another reader, it can significantly affect its reading ability.

Technical parameters:

technology: EM 125 kHz UID
reader type: SR-1EM (with piezo and Bi-color LED signaling)
operating frequency: 125 kHz
output protocol: WIEGAND 26bit
power supply: 12 VDC (consumption: ≤ 30 mA)
RFID chip support: EM 4102
reading distance: 3 - 5 cm
compatibility with CMU: all UNINET types
compatibility with entrance panels TESLA: GARANT 2BUS and 6BUS
reader dimensions: 82 x 42 x 16 mm
degree of protection: IP68
working temperature range: -45 °C to +60 °C
EMC: in compliance with CE requirements
recommended distance from another reader: min. 40 cm
interference on metal: may cause reading interference



4FN 232 23/1
for vertical mounting



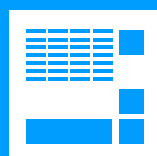
4FN 232 23/2
for horizontal mounting

SR-1EM (RFID 125 kHz)

Small and elegant SR-1EM contactless RFID reader suitable for outdoor use - IP68 protection. 125 kHz technology presents lower data security, but good operational characteristics such as data transfer speed and reading distance up to 8 cm. If the SR-1EM reader is installed on a metal surface or is less than 10cm from the other reader, it may significantly affect its reading ability.

Technical parameters:

technology: 125 kHz UID
operating frequency: 125 kHz
output protocol: WIEGAND 26bit
power supply: 12 VDC (consumption: up to 30 mA)
RFID chip support: EM 4102
reading distance: 3 - 8 cm
compatibility with CMU: all UNINET types
dimensions: 82 x 42 x 16 mm
cover: plastic
mounting method: surface
degree of protection: IP68 (with cable and wires)
working temperature range: -45 °C to +60 °C
recommended distance from another reader: more than 10 cm
Signaling relay and door status: piezo and Bi-color LED



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NEW DESIGN LINE



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AUDIO-VIDEO DOOR ENTRY
& ACCESS CONTROL SYSTEM

ACCESS CONTROL

UNINET = Network system for more doors with entry/exit recording

RFID READERS

ACCESS 7AH (RFID 125 kHz)

This contactless RFID reader is vandal-resistant (IK10), made of self-extinguishing plastic, suitable for outdoor use (IP67), without interference - works reliably on metal and near another reader. It is configurable - setting the LED, piezo buzzer, tamper, RS232 and Wiegand outputs. 125 kHz technology presents lower data security, but good operational characteristics such as data transfer speed and reading distance up to 10 cm.

Technical parameters:

technology: 125 kHz UID with WIEGAND 26bit output protocol

power supply: 10 - 30 VDC (consumption: 40 mA at 24 VDC, max 65 mA (ECO20))

RFID chip support: EM 4102, HID Prox / UID (rear configuration)

reading distance: max. 10 cm

compatibility with CMU: all UNINET types,

PCB RAK ACCESS RS232 for 1 door with one-way access without entry recording

dimensions: 110 x 43 x 24 mm

cover: plastic, self-extinguishing - UL94 flammability tests (classification HB, V-2)

mounting method: surface

degree of protection: IP67(with cable and wires)

mechanical resistance: IK10

working temperature range: -40 °C to +55 °C

recommended distance from another reader: min. 10 cm

cable: LIYY 3m

LED: Tri-color - configurable different settings

piezo: YES - configurable different settings

optical tamper: YES - configurable, it is disabled in the basic configuration

transport info: option for 4-bit, 6-bit, 8-bit and 38-bit management

next reading delay: adjustable, up to 63 seconds

configuration: YES - by connecting the reader to the PC, necessary disassembly of the reader

Inputs/Outputs:

2 FET outputs (tamper control and general use) - max 500 mA

1 input for general use

RS-232: YES

clock&data: 10 BCD format for Mifare Classic sectors and Mifare DesFire application



YK-08Y-ID (RFID 125 kHz)

This contactless RFID reader is characterized by a large reading range from 20 to 40 cm, which allows for a larger size of the coil and the reader itself. The reader is suitable for indoor use.

WARNING: The reader is not suitable for mounting on metal and near another reader. In the case of such assembly, its reading ability is significantly reduced or completely impossible.

Technical parameters:

technology: 125 kHz UID with WIEGAND 26bit output protocol

power supply: 12 VDC (consumption: up to 100 mA)

RFID chip support: EM 4102

reading distance: 20 - 40 cm

compatibility with CMU: all UNINET types

dimensions: 260 x 260 x 35 mm

cover: plastic

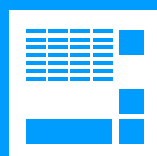
mounting method: surface

working temperature range: -10 °C to +70 °C

recommended distance from another reader: more than 200 cm

LED: 3 LEDs

piezo: YES



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RFID READERS

ACCESS 7C 2.0 (MIFARE 13.56 MHz)

This contactless reader is vandal-resistant - IK10, made of self-extinguishing plastic, suitable for outdoor use - IP67, without interference - works reliably on metal and near another reader. It is configurable - setting the LED, piezo buzzer, tamper, RS232 and Wiegand outputs. Mifare Classic uses a similar communication principle as 125 kHz technology. Despite low data security, there is an advantage compared to 125 kHz technology in that Mifare pendants contain memory that can be used and "encode" data in it, which offers other alternatives for using the system.

Technical parameters:

technology: MIFARE® Classic 13.56 Mhz UID with WIEGAND 34bit output protocol

power supply: 10-30 VDC (consumption: 20 mA at 24 VDC, max 60 mA (ECO20))

RFID chip support: MIFARE® Classic UID, MIFARE® Ultralight UID, MIFARE® Plus UID, MIFARE® SmartMX (MIFARE® Classic emulation mode) UID, NFC (UID), Mifare Classic 7 Byte UID

reading distance: max. 10 cm

compatibility with CMU: all UNINET types,

PCB RAK ACCESS RS232 for 1 door with one-way access without entry recording

dimensions: 110 x 43 x 24 mm

cover: plastic, self-extinguishing - UL94 flammability tests (classification HB, V-2)

mounting method: surface

degree of protection: IP67 (with cable and wires)

mechanical resistance: IK10

working temperature range: -40 °C to +55 °C

recommended distance from another reader: min. 10 cm

cable: LIYY 3m

LED: Tri-color - configurable different settings

piezo: YES - configurable different settings

optical tamper: YES - configurable, it is disabled in the basic configuration

transport info: option for 4-bit, 6-bit, 8-bit and 38-bit management

next reading delay: adjustable, up to 63 seconds

configuration: YES - by connecting the reader to the PC, necessary disassembly of the reader

2 FET outputs (tamper control and general use) - max 500 mA

RS-232: YES

clock&data: 10 BCD format for Mifare Classic sectors and Mifare DesFire application



SR-1MF (MIFARE 13.56 MHz)

Small and elegant contactless reader with LED for outdoor use - IP68 protection. It supports Wiegand 26 and 34 bit data output. For use with CMU UNISSET, data transmission in Wiegand 34 bit format must be set.

CAUTION: If the SR-1MF reader is installed on a metal surface or is less than 10 cm from the other reader, it may greatly affect its reading ability.

Technical parameters:

technology: MIFARE® Classic 13.56 Mhz UID with WIEGAND 26/34bit output protocol

power supply: 12 V DC (consumption: up to 30 mA)

RFID chip support: MIFARE® Classic UID

reading distance: 3 - 8 cm

compatibility with CMU: all UNINET types

dimensions: 82 x 42 x 16 mm

cover: plastic

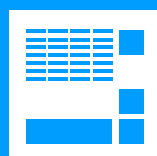
mounting method: surface

degree of protection: IP68 (with cable and wires)

working temperature range: -45 °C to +60 °C

recommended distance from another reader: more than 10 cm

Signaling relay and door status: piezo and Bi-color LED



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PROGRAMMERS AND CONVERTERS

Programmer-converter RFID 125 kHz USB-RS485 (No.: BES-2702)

The programmer is used for programming of the CMU UNINET, it ensures the transfer of identification numbers of individual contactless RFID 125 kHz tags to the list of identifiers via an integrated 125 kHz RFID reader. It contains a USB-RS485 converter, which enables an online connection between a PC and CMU UNINET over longer distances. The product package also includes a connecting USB cable.

Features and parameters:

programming of identifiers (RFID 125 kHz) to CMU UNINET
USB-RS485 converter
power supply: via USB
USB / RS485 socket
connection of CMU with PC over longer distances (max. 1000m)
USB cable A to B, 2 m - part of the package
dimensions: 41 x 89 x 75 mm



Programmer-converter RFID 125 kHz USB-ETHERNET (No.: 0012013004)

The programmer is used for programming of the CMU UNINET, it ensures the transfer of identification numbers of individual RFID 125kHz contactless tags to the list of identifiers via an integrated 125 kHz RFID reader. The product package also includes a connecting USB cable. For proper operation, it is necessary to have the driver installed according to the Windows OS used.

Features and parameters:

programming of identifiers (RFID 125 kHz) to Ethernet CMU UNINET
power supply: via USB
USB socket, USB cable A to B, 2 m - part of the package
dimensions: 41 x 89 x 75 mm



Programmer-converter MIFARE DESFire 13,56 MHz USB-RS485 (No.: 0012017002)

The programmer is used for programming of the CMU UNINET, it ensures the transfer of identification numbers of individual contactless tags to the list of identifiers through the integrated MIFARE DESFire 13.56MHz reader. It contains a USB-RS485 converter, which enables an online connection between a PC and CMU UNINET over longer distances. The product package also includes a connecting USB cable.

Features and parameters:

programming of identifiers (MIFARE and DESFire 13.56 MHz) to the CMU UNINET
USB-RS485 converter
connection of CMU with PC over longer distances (max. 1000m)
power supply: via USB
USB / RS485 socket
USB cable A to B, 2 m - part of the package
dimensions: 41 x 89 x 75 mm

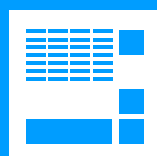


Converter USR-K2 ETHERNET-RS485 (No.: 0012011004)

The ETHERNET-RS485 converter USR-K2 is used to connect CMU UNINET with RS485 output to an Ethernet computer network (LAN/WAN). CMUs connected in this way can be managed using the BBIQ software from version 3.160. It is possible to connect an existing system of networked CMUs to the converter, thereby modernizing the access system for remote management within a local computer network. It replaces the original Xport converter. The USR-K2 uses a different type of modem and the USR-TCP232 application for simple IP address setting.

Features and parameters:

connection CMU UNINET RS485 to a LAN or WAN network and data transfer
converter ETHERNET-RS485 (USR-K2)
power supply: 9 - 24 V DC, 200 mA (adapter not included)
socket for RJ45 connector
support in BBIQ since version 3.160



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& ACCESS CONTROL SYSTEM

ACCESS CONTROL

CONVERTERS, CABLES AND POWER SUPPLY

Converter - adapter MANHATTAN PC-USB/RS232 (No.: 205153 / 205146)

The USB adapter is used to connect multiple access system devices to a PC in order to program identifiers into the list of identifiers in the BBIQ or RAK software. It is suitable, for example, for operating-memory units, programmers, DDS monitors, DDS programmer, etc. The MANHATTAN USB/RS232 adapter is designed for PCs with Windows 2000, XP, Vista and Windows 7 operating systems. It comes with an installation CD.

Technical parameters:

USB port, type B female

Rs232 port, 9-pin male

Transmission speed: up to 225kbps

BUS powered

Overvoltage protection

Length: 45 cm

System Requirements:

USB 1.1 or 2.0 port

Windows 2000, XP, Vista, 7, 8 and 10

Package contents:

USB/RS232 converter

Instructions and installation CD

USB connecting cable A to B



USB cable (No.: 6725)

USB cable A to B for connecting the operating-memory unit to the PC, 2 meters long.



RS232 connecting serial cable (No.: 27373)

The RS232 serial cable with 9 PIN connector is used to connect the operating-memory unit to a PC (e.g. direct connection of UNISÍŤ-F RS232 to a PC) or other devices (converters, programmers, etc.). In some cases it will be necessary to use a suitable reduction.

Technical parameters:

RS232 serial cable

terminals: Cannon 9 PIN socket, plug

cable length: 2 m



Power Supply for the reader or CMU (No.: 4FP 672 54)

Technical parameters:

Supply voltage: 230V/50Hz

Output voltage: 12V DC / 0,3A and

9V AC / 1A

Dimensions: 70 (4xDIN) x 99 x 67,5 mm

working temperature range: -5 °C to +40 °C and rel. humidity 80%

Weight: 530g

No-load current: 30 - 50 mA



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RFID TAGS

Contactless tags with RFID 125 kHz chip EM4200

SAIL design (with engraved number)

H02207/BL/G RFID tag SAIL EM4200 black

H02207/BX/G RFID tag SAIL EM4200 blue

H02207/GX/G RFID tag SAIL EM4200 green

H02207/RX/G RFID tag SAIL EM4200 red



ECO design

ECO-GREY RFID tag ECO EM4200 gray

ECO-BLUE RFID tag ECO EM4200 blue

ECO-RED RFID tag ECO EM4200 red

ECO-GREEN RFID tag ECO EM4200 green



Contactless tags with MIFARE 13.56 Mhz chip

500CD3504/BX MIFARE tag BEETLE S50 blue

500CJ0504/AX MIFARE tag BEETLE S50 black



Technical parameters:

chip: MIFARE S50 (1K) 13.56 Mhz

body made of ABS - highly resistant material

resistant to dust, dirt and moisture

case closed by ultrasonic welding

suitable for interior and exterior use

ADDITIONAL SIGNALING

Door semaphore TL1 with LED and TL3 with LED and acoustic signaling (No.: TL1 / TL3)

The door semaphore TL1/TL3 with red and green LEDs is used in access systems to optically signal the unlocking of electrically secured doors (e.g. after using a tag, exit or emergency button). They have an integrated jumper that enables the setting of the nature of signaling - permanent or intermittent mode. The TL3 version has acoustic signaling in addition to light signaling. Installation can be recessed or surface mounted in the plastic box that is part of the product.

Technical parameters:

power supply: 10 - 24 V AC/DC (the connection is not polarized)

light sources: red and green LED

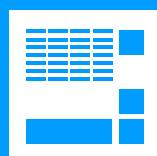
jumper for signaling setting: lights up / flashes

front cover: stainless steel

box for surface mounting: plastic

dimensions: 129,5 x 40 x 22 mm

installation: interior, recessed or surface



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AUDIO-VIDEO DOOR ENTRY
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ACCESS CONTROL

EXIT AND EMERGENCY BUTTONS

Exit and emergency buttons are used in access systems to release electrically secured doors (e.g. with an electromagnetic door lock).

Emergency buttons are used for emergency releasing of doors, e.g. in case of fire or other life-threatening situations. The emergency button enables quick manual activation of the door releasing by breaking the cover glass. The built-in circuit permanently activates the releasing of doors secured by an electromagnetic door lock or an inverse electromechanical door lock (a door lock that releases when the power supply is interrupted must be used).

The exit button is used in an access system with electrically secured doors when leaving the building. The button simultaneously switches the electromagnetic door lock and the operational-memory unit, i.e. that even in the event of a failure of the CMU, pressing the button cuts off the electric current to the door lock and releases the door.

Output button DEK 2211

This button is intended for flush mounting, e.g. in the iron profiles of the entrance door or on the surface after purchasing the stainless steel case F0701000005. The design properties of the button meet the demanding criteria for placement in an environment with a high degree of vandalism. The button in our access system switches on the electromagnetic door lock and the CMU at the same time, i.e. even in the event of a failure of the CMU, pressing the button cuts off the power supply to the door lock and releases the door.

Technical parameters:

current characteristic: 3A, max. 36 VDC
1x closing and 1x breaking contact (NO, C, NC, C)
metal button
panel material: INOX
suitable for exterior use
dimensions: 80 x 38 x 30 mm
weight: 0.10 kg
mounting method: flush mount
surface mount housing: F0701000005
case dimensions: 84 x 41 x 45 mm



Output button with LED diode PBK-B-19-NONC(LED)

This button with signaling LED is intended for flush mounting, e.g. in the iron profiles of the entrance door or on the surface after purchasing the MBB-811A-M stainless steel case. The design properties of the button meet the demanding criteria for placement in an environment with a high degree of vandalism. The button in our access system switches on the electromagnetic door lock and the CMU at the same time, i.e. even in the event of a failure of the CMU, pressing the button cuts off the power supply to the door lock and releases the door.

Technical parameters:

LED: dual color (red/green)
LED power supply: 12 VDC (without resistor 2.8 V), max. consumption: 20 mA
max. current load: 2A, max. 36 VDC
1x changeover contact (NO, C, NC)
metal button with thread and nut
thread diameter (mounting hole): 19 mm
front material: INOX stainless steel
suitable for exterior use: IP65
Dimensions: 90 x 35 x 38,3 mm
mounting method: flush mount
surface mount housing: MBB-811-A-M
case dimensions: 90 x 35 x 25 mm

LED connection: by changing the polarity of the supply voltage, you change the color of the LED from red to green

NOTICE:

In the case of installing the PBK-B-19-NONC(LED) button in the MBB-811A-M case, the back part of the button with the contacts partially extends beyond the case by approx. 13 mm. During assembly, it is necessary to create not only a hole for the cable outlet, but also a space for the protruding rear part of the button. When mounting on a door frame and other materials behind which there is a cavity, it is necessary to drill a hole with a diameter of 20 mm, while the recommended space behind the housing - the depth of the bed is approx. 13 - 15 mm. For surface mounting made of concrete, brick, etc., it is necessary to create a bed by deepening the hole with a drill to a depth of 15 mm.



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AUDIO-VIDEO DOOR ENTRY
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ACCESS CONTROL

EXIT AND EMERGENCY BUTTONS

Emergency exit button CPK-860A

The interior emergency exit button CPK-860A is used for emergency releasing of doors, e.g. in case of fire or other life-threatening situations. Enables quick manual activation of door releasing by breaking the cover glass. The built-in circuit permanently activates the releasing of doors secured by an electromagnetic door lock or an inverse electromechanical door lock (a lock that releases when the power supply is interrupted must be used).

Technical parameters:

NO/NC contacts

manual activation by breaking the cover glass

recommended voltage: 12 V AC / DC

max. voltage: 50 V AC or 30 VDC, 8 A

dimensions: 86 x 86 x 55 mm

material: plastic

degree of protection: IP44

surface mounting, possibility of flush mounting

Possible to purchase:

Plastic cover - door with seal hole - CPK-860A-C

The cover protects the cover glass from accidental breakage and misuse of the button.

Replacement cover glass: CPK-860A-G



Emergency Resettable Exit Button CPK-861A

The interior emergency exit button CPK-861A with removable terminal block and resettable plastic part is used for emergency unlocking of the door, e.g. in case of fire or other life-threatening situation. Enables quick manual activation of door unlocking by pressing the plastic part in the center with hand pressure. The plastic part moves downwards (the yellow band of the plastic part is visible), which permanently engages the releasing of the door secured by an electromagnetic door lock.

Technical parameters:

COM/NC contacts

resettable plastic part

removable terminal block

recommended voltage: 30 V DC

current load: 2 A at 30 VDC

dimensions: 87,5 x 87,5 x 56,5 mm

material: plastic

degree of protection: IP24D

operating temperature: -30°C to +70°C

weight: 160g

Possible to purchase:

Plastic cover - door with seal hole - CPK-860A-C

The cover protects the cover glass from accidental breakage and misuse of the button.

Replacement cover glass: CPK-860A-G



SCP-110 emergency reset button with LED and buzzer

A resettable model of the emergency exit button with acoustic and distinctive two-color optical signaling around the perimeter, which indicates the current status of the door blocking. The signaling is adjustable - flashing, permanent lighting, including volume and type of tone (intermittent, permanent). The button comes with a transparent cover for security with a seal. Simple assembly is ensured by three separate terminal blocks for connecting various devices.

Technical parameters:

output contacts: NO, NC, COM

Power supply: 12 V DC: 18 mA (at rest) / 75 mA (in operation)

24 V DC: 11 mA (at rest) / 41 mA (in operation)

dimensions: 90 x 93 x 45 mm

reset key (included)

material: ABS, PC

weight: 208 g (incl. packaging)

Buzzer: adjustable mode - quiet, intermittent tone, continuous tone (volume setting)

Light signalization: LED bi-color (red and green), adjustable mode - off, flashing, permanent lighting



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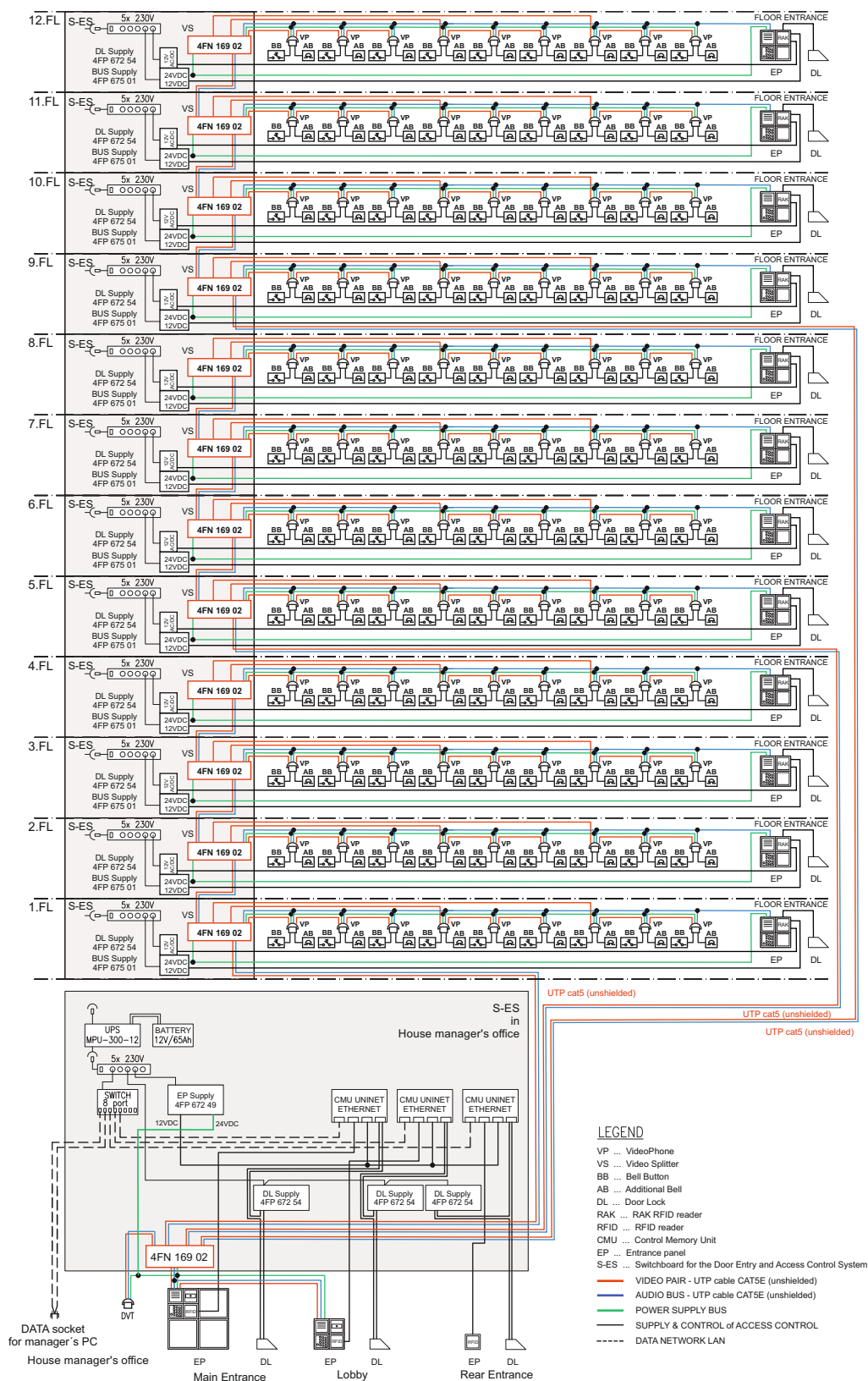
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EXAMPLE WIRING DIAGRAM

6BUS Video wiring diagram with 1 splitter per floor incl. audio floor entrance panels



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