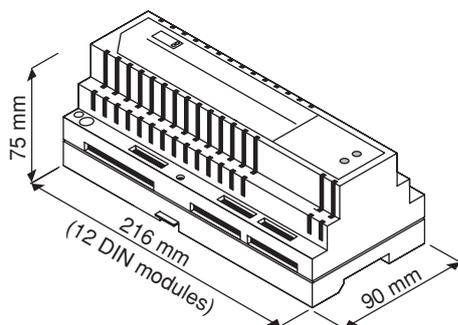


## BUS COUPLER WITH TRANSFORMER Ref. 1072/24

PERFORMANCE - DESCRIPTION OF TERMINALS, CONFIGURATIONS AND DISPLAYS -  
TECHNICAL SPECIFICATIONS - INSTALLATION AND CONFIGURATION - TROUBLESHOOTING

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DOMUS

### BUS COUPLER WITH TRANSFORMER Ref. 1072/24



### PERFORMANCE

- Powers the two-wire bus on main push-button panel side: up to 12 stations + 1 switchboard.
- The bus on door phone side is called the "column" and is split into two spines. The two spines are reciprocally equivalent and can be separately cut off in the case of a failure. This event is indicated by the two LEDs corresponding to the spines.
- Powers the column (two spines and two wires): max. 50 door phones + 1 secondary push-button panel. Up to 30 door phones + 1 secondary push-button panel can be connected if open door LED feature is provided. In this case, an additional coupler cannot be used to increase the number of door phones in the column if this is connected to a secondary call station.
- Repeats the data between the two buses.
- Provides bus line impedance on main push-button panel side and door phone side to allow audio modulation.
- Provides the current needed to generate the door phone call and the floor call.
- Couples the voice of the two buses.
- Powers electrical door lock and name tag lights.
- Equipped with low voltage relay for controlling "staircase lights".
- Equipped with VOP video power unit controller (1074/20).

### DESCRIPTION OF TERMINALS, CONFIGURATIONS AND DISPLAYS

B1	Spine 1 working LED.
B2	Spine 2 working LED.
M/S	Master/Slave configuration plug connector
L1, L2	Connection to bus on main push-button panel side
B1A, B1B	Connection to column spine 1
B2A, B2B	Connection to column spine 2
0, ~230	Mains.
~0, ~12	Can power the following alternatively: <ul style="list-style-type: none"> <li>• 1 calling module;</li> <li>• 1 concierge switchboard;</li> <li>• 1 electrical door lock (see technical specifications);</li> <li>• bulb or name tag lighting LED (see technical specifications).</li> </ul>
C, NA, NC	"Staircase lights" relay exchange.
CM, GND	1074/20 controller.

### TECHNICAL SPECIFICATIONS

Power supply:	230Vac ± 10% 50Hz
Power:	37VA
L1, L2:	22Vdc 120mA
B1A, B1B:	22Vdc 60mA
B2A, B2B:	22Vdc 60mA
~0, ~12:	12Vac 1.1A
Relay contacts:	24Vdc 1.2 A - 24Vac 1.2A
Protections:	PTC <sup>(1)</sup>
Temperature:	-5°C +40°C

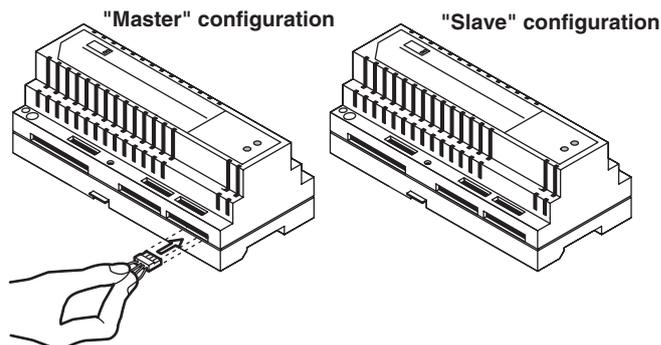
<sup>(1)</sup> Disconnect the mains power for at least 60 seconds to reset the power unit if the PTC trips due to overload or short-circuit.

### INSTALLATION AND CONFIGURATION

Install the coupler in a dry place. Keep slots open to prevent overheating the device. Do not install the coupler near devices generating strong magnetic fields.

The device can be fitted on a DIN EN 43870 bar (12 modules).

The coupler is configured as a slave by default. Insert the specific plug provided to configure the coupler as a master. Only one coupler can be configured as a master in each system. All other coupling devices must be configured as a slave.



Each coupler can be connected to up to 50 door phones (including door phones in parallel) in two spines.

Organisation in spines is useful because if a spine fails (spine bus short-circuit or faulty door phone), it can be cut off from the system permitting the remaining spines to work normally.

### STAIRCASE LIGHT CONTROLLER RELAY

The coupler is equipped with a low voltage contact controlled for one second subsequent to the following events:

- Pressing of "staircase lights" button on any door phone connected to the respective spines.
- Pressing of "staircase lights" button on secondary door unit connected to the respective spines.
- Pressing of "staircase lights" button on any main door unit (with digitiser only).
- Pressing on concierge switchboard button F1.

### TROUBLESHOOTING

The bus coupler has two LEDs indicating the status of the respective door phone spine. One or more coupler LEDs will go out to indicate a short-circuit on the corresponding door phone spine.