THE EUROPEAN REGIONAL DEVELOPMENT FUND AND THE MINISTRY OF INDUSTRY AND TRADE OF CZECH REPUBLIC SUPPORT INVESTMENT IN YOUR FUTURE

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PSO2 access system

Access to the elevator on the floor

PSO2-M4DM

Access to the elevator on the floor

Floor access

PSO2-M4DM

PSO2-M4DM   PSO-RE8

Access to the elevator on the floor

PSO2-M4DM

Access to the elevator on the floor

PSO2-M4DM

Using the PSO2 for elevators

The ideal configuration for the installation of the PS02 for calling the elevator and choosing the floor using access rights. It is used in buildings where it should prevent calling the elevator to any floor in question without the appropriate authorization. When entering the cabin, identification is again requested for the ride. The ride to the floors in question is restricted by an access system with the PSO-RE8 module and eight relays.

A person can go only to those floors where he has access rights.

The PSO2 type given in the picture is for reading the Dallas chip and communicating with the PC via the RS485. The PSO2 is connected in parallel by one UTP type cable used for the PC network. The PSO2 network connection is run in one location for connection to the PC. The RS485 converter must be connected to the RS232 or USB for this connection. Configuration and programming access rights for all PSO2 connections can then be carried out from one location.

The PSO-RE8 expansion relay module contains eight relays connected to the control mechanism of eight floors. For more floors, one more module can be connected to expand the control to include sixteen floors.

These applications are used in hospitals, office buildings, retirement homes and nursing homes, etc.
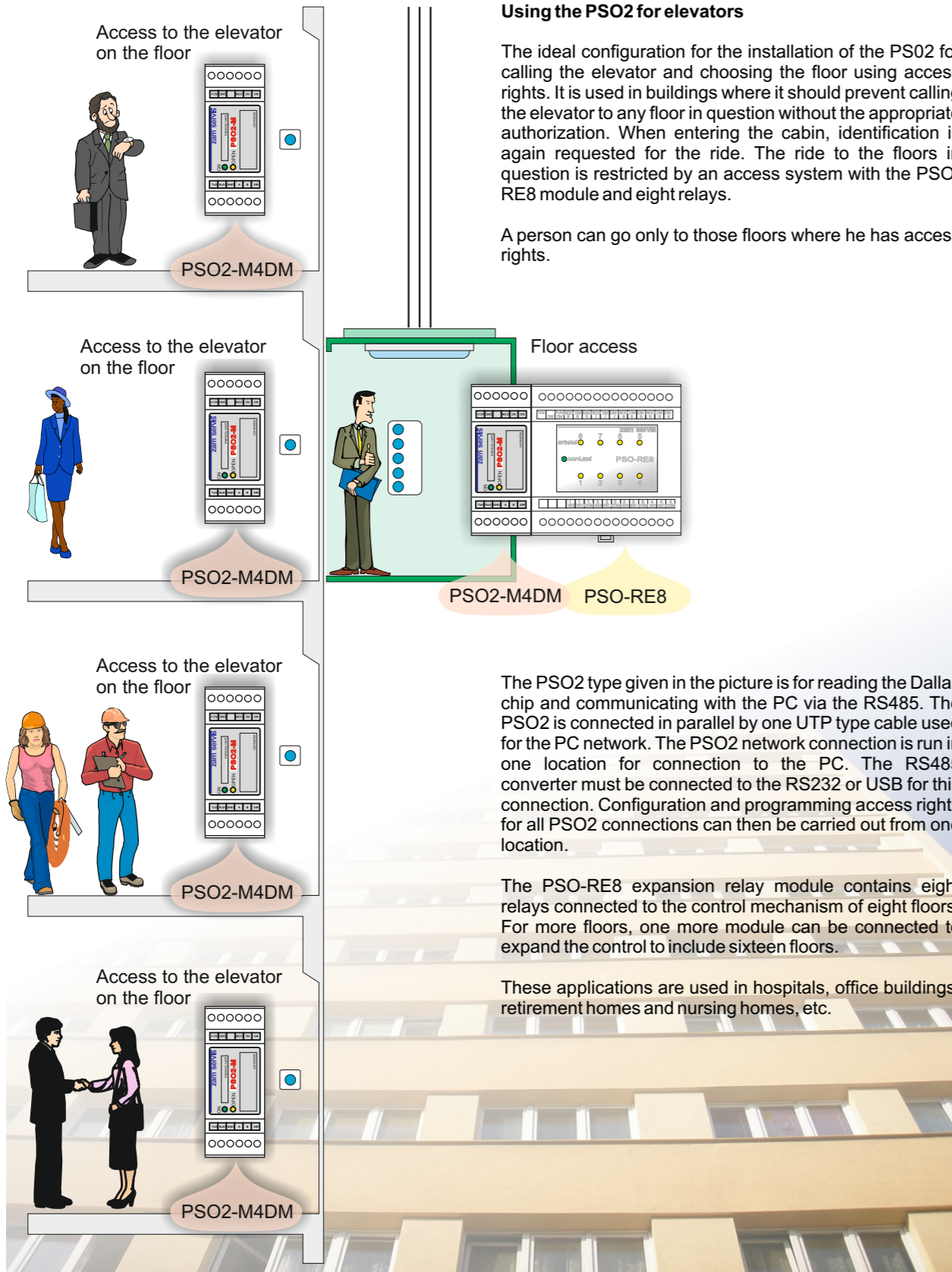
The catalogue has only those selected important parameters for your final decision. For project designs always ask for the user's guide for this product and any engineering consultation about possible uses.

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PSO2 access system

Principles
Placement of the **identification chip** to the **reader** transfers the information stored in it and the control mechanism compares it to the information stored in its memory. If the electronic code accepts it, the relay will be activated for the set time or the relay flip flops to the opposite position (according to preset function).

Application
The various combinations of PS02 system and additional modules enable solutions with large-scale applications. The most common application is in the elevators of apartment buildings, see the back sheet. The combination of PS02 and the remote reader system is a solution for hotel room systems for opening the doors to rooms using registered access.

The access system is used to control entry to buildings, restricting the access of people to certain areas, opening doors (in conjunction with an electric lock) without the need of having a physical key, garage entrance, controlling throughput equipment or electrically operated door locks, latches, revolving door barriers, door systems, gates, etc. throughput locks in **ESS systems**.

The PS02 is used for identifying and controlling **Dallas Touch Memory™** or **Proximity 125kHz** contactless cards.

Dallas Touch Memory is an electronic chip that is encapsulated in a metal container that resembles a small battery. Thanks to its small but robust design, it can withstand rough handling. It can be worn on key chains, together with corporate ID cards, mounted on calling cards for visitors, etc.

Proximity 125kHz is an electronic chip molded in a plastic card that allows contactless identification only by proximity of the card to the reader. It is meant to be carried, for example, in the wallet.

The PS02 meets the demands of increased security against attacks by decoupling the **reader slot** or **remote key readers** or **cards** from active and control parts (reader equipment).

The distance between the reader slot and the PS02-M can be up to 20 meters, whereas remote readers can reach up to 1000 meters. The distance depends primarily on installation environmental and interference. Several readers can be connected in parallel to one system. An invasion of the reading equipment does not lead to a shutdown of the system, because the circuit board can be placed inside a secure area.

Specifications

PSO2-M supply voltage	10-35V DC or 10-24V AC/50mA
PSO-RE8 supply voltage	10-30V DC or 10-22Vac/300mA
PSO-TINY-B supply voltage	10-35V DC or 10-24V AC/50mA
PSO-TINY-P supply voltage	10-22V DC or 10-16V AC/100mA
number of reading equipment	1-32, total number depending on the actual applications, cabling, exterior interference, ambient environment, etc.
Output contacts	Changeover contact relay 24V DC or 48V AC/1A (resistive load).
PSO-RE8 dimensions	89mm x 90mm x 60mm (w x d x h)
PSO2-M, PSO-TINY-B and P dimensions	36mm x 90mm x 60mm (w x d x h)
Cover	IP 20
Class of protection	SELV
Ambient temperature	-20°C to + 50°C
Weight	0.2 kg

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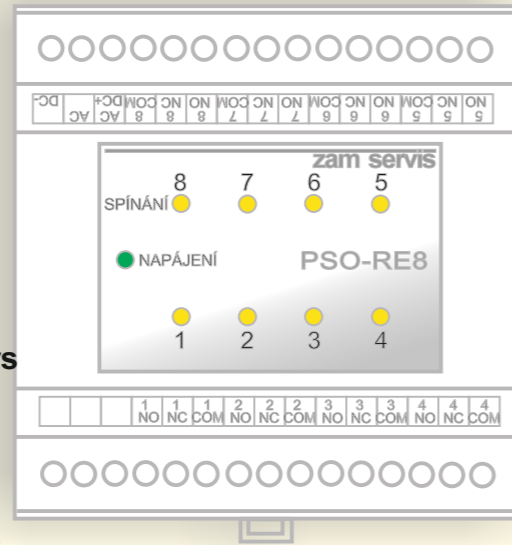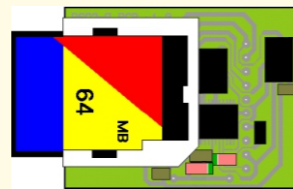
PSO2

configuration of components

New parameters:
- Dallas contact chips
- Proximity contactless cards
- Memory for 510 chips
- 10V AC to 24V AC
- Connection for up to 16 relays
- Connection in a network with up to 32 readers
- Connection on one line up to 32 PSO2M4_M
- Events memory up to 4,000,000 records
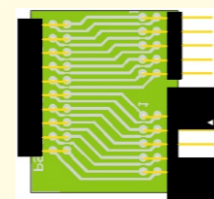- offline and online mode
- Windows 98 to XP software

PSO2 and additional components

Expansion module with eight programmable PSO-RE8 relays

PSO2-B expansion board with exchangeable events memory

PS2-I extension board

PSO2-M circuit board

PSO2 for Dallas chips

up to 20m

Card slot

Elektronic chip Dallas

>1x

PSO2-M_ D M

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Communication with the PSO2 via the RS232
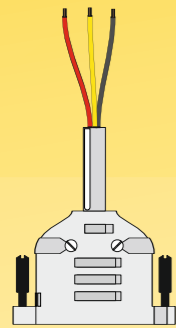
Cable connecting the PSO2 to the RS232
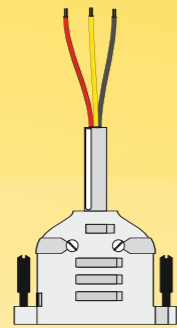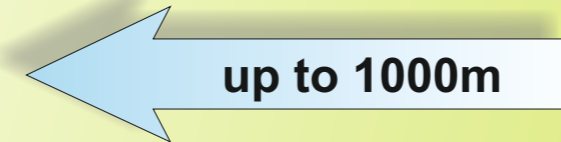
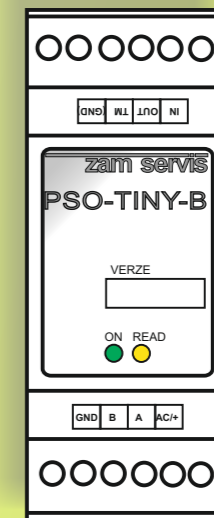Cable connecting the PSO2 to the RS232
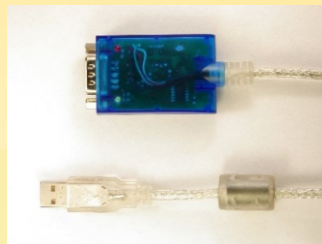
RS232 converter for USB

PSO2-M2 _ M   **PSO2-M2 _ M**

PSO2.exe
W98 - XP

USB in PC

Rs232 in PC

Communication with the PSO2 via the RS232

Rs485 converter for USB

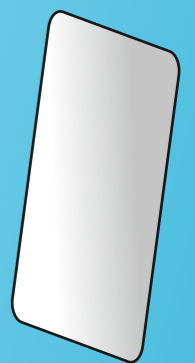Rs485 converter for the RS232

PSO2-M4 _ M 32x

PSO2 and the remote Dallas

PSO2-M circuit board

up to 1000m

32x

PSO-TINY-B

PSO-TINY-P remote key reader

Card slot

>1x

Electronic chip Dallas

PSO2-M_ R M

PSO2 contactless system

PSO2-M circuit board

up to 1000m

32x

PSO-TINY-B

PSO-TINY-P remote key reader

Proximity 125kHz contactless card

PSO2-M_ R M