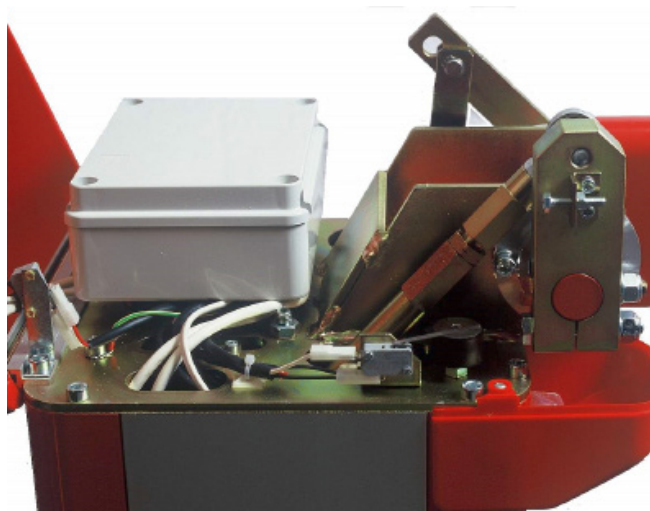


SignalPark® BCD-2

Vehicle inductive loop detector and barrier control unit

SignalPark® BCD-2 is an universal control unit. Basically executes special logic functions such as vehicle detecting with 2 inductive loops, high-performance relay outputs, universally adaptable inputs, addressable serial data connections. The unit provides a great variety of solutions for vehicle and personal access systems. Its application is very economical because it replaces the conventional control units and the additional equipment. Application of the unit results cost savings, greatly simplifies the installation work and requires smaller space requirements comparing the conventional control units.

During the planning of the unit we took into consideration our many years of constructing and service experiences as well as the market and user needs. The control unit provides functions and services which are not available at all with other units or the solution would be more complicated.

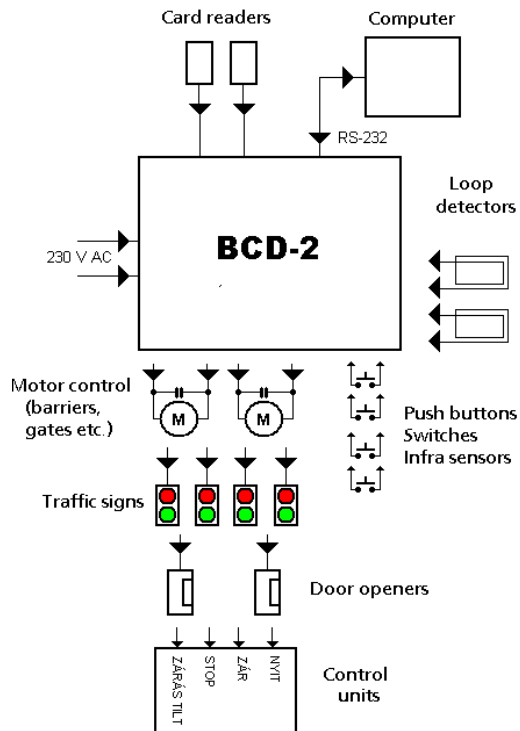


The inductive loop detection is specially designed for the determination of presence the metal components. The unit can apply where the vehicles passage, appearance, expectations must be perceived. It has many usefull features compairing with an infrared beam sensor used for similar tasks.

The unit has 4 optically isolated, completely independent control inputs and 2 inputs exclusively for the limit switch of the power unit.

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Special features:

- the interference of inductive loops, which may limit the operating range of proximity card readers is fully eliminated
- magnetic or proximity card readers of any type with standard outputs can be directly connected
- "self learning" card validation process in access control mode. There is no need to use any computer for this purpose
- full access trough serial line (internal status upload, download of control commands, card validation etc.)
- simple serial line control protocol, addressed master-slave system
- on the content of the non-volatile memory based off-line or on line access control

Operation modes:

1. Loop detector for vehicle presence and direction sensing
2. Traffic light control (one lane traffic control)
3. Single-phase motor direct control (barriers, slide gates etc.)
4. Motor control for two wing gates
5. Control of OPEN-CLOSE-STOP devices
6. Door control terminal for access control

Equipments to be connected:

- 2 pc of loop detectors (30-1000 μ H)
- 2 pc of card readers (WIEGAND or RDP,RCP outputs)
- radio receiver
- 4 pc of push button or other contacts (for example infrared sensors)
- RS-232 bidirectional data line
- 2 pc of traffic signal red/green
- 2 pc of electromagnetic door opener

Technical data:

- **Supply voltage:**
230 V 50-60 Hz 0,1 A (excluded the attached external equipments)
- **Inputs:**
4 db general purpose, optical insulated, independent (12-30 V) ones
- **Special inputs:**
2 pc of inductive loops (30-1000 μ H)
2 of end position switches
2 pc for connection of card readers (5V or 12V)
1pc of RS-232 bidirectional data line
- **Outputs:**
2 pc of 400V 16 A relays with quench circuit
2 pc of 400 V 8 A relays
- **Special outputs:**
9 V AC 100 mA for external equipments
12 V DC 150 mA for external equipments
- **Housing:**
UV resistant polycarbonate, protection class IP 65, 200×150×80 mm

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