

# asservissement des portes et SAS

GSP, Gestion Spécifique de Portes

## interlocking of doors and pass boxes - SDM, Secific Door Management

To comply with the various operational modes of staff lockers, material pass boxes, functional equipment for access doors (cloakrooms, storage areas, production) and specific interlocking requested by our customers, we offer "SDM" systems.

To manage the requirements of door interlocking LSB has developed a Specific Door Management system based on MICROLOGIC programmes on PC MS DOS, for ALLEN BRADLEY PLCs,. The system enhances the management of all door equipment: indicator lamps, open and close buttons, electric bolts or catches, door rebate contacts, inflatable seals, optical scanners, badging equipment, digital keyboards, etc.

### Pre-wired flush electrical functions prepared on front of wall.

SDM can be used for pass box interlocking or for access to production zones from 3 to N doors. It also enables management in one place of all the automatic functions of a production site. The different programmes are specifically developed in accordance with the customer's requirements.

<p><b>Equipment</b> Laminated doors</p> <p>Single 24V electric bolt Break bolt Lexan for bolt Container for bolt Cable</p>	<p><b>Equipment</b> Service hatch</p> <p>Single 24V electric catch Break catch Lexan for catch Lock for catch Cable</p>	<p><b>Equipment</b> Metallic doors</p> <p>Electric lock with integrated contact Lock container Cable</p>	<p><b>Equipment</b></p> <p>Electric air sucker Electromagnetic air sucker Cable</p>
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#### INTERLOCKING

The SDM box includes:

- the 220V ac and 24V dc circuit breakers
- a filtered 24V dc power supply
- the PLC, the voltage present indicator and the distribution terminal

Our selection of high pressure laminates complies with the French standard NF T54/324 (homogenous materials with mechanical characteristics recognised ISO R1183,87).

Our equipment complies with the requirements of GMP/BPF.



#### The reasons for this choice

- 1 small space requirements for the interlock boxes or cabinets
- 2 interlock modification without intervention on existing wiring
- 3 capability of repeat to monitoring control unit
- 4 addition of a modem enables remote modification and repair through telephone lines



## Specific Door Management by LSB - technical drawings



### 1. Identification of needs

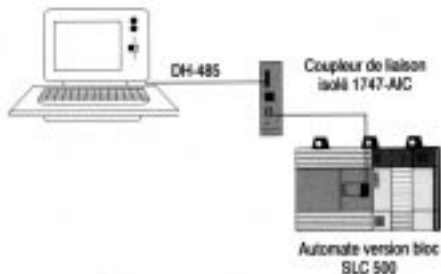


### 2. Verification of interlocking



### 3. Analysis of operation on site

IBM PC ou compatible avec interface  
1784-KR, interface DH-485 PC



### 4. Programming of controllers by PC



### 5. Micrologic 1000 for 3-door pass box



### 6. Micrologic SLC 500 interlocking for 4 to N doors

### Procedure sheets

*Example:*  
doors concerned:  
D7, D5 and D2

#### • Equipment for doors D7 and D2

Double-leafed doors

#### White indicator

Door not locked  
Programme marker VB

#### Red indicator

Door locked  
Programme marker VR

#### Open button

Request to enter  
Programme marker BPO

#### Close button

Locking of exits  
Programme marker BPF

#### Electric bolt

Doors blocked  
Programme marker VE

#### Rebate contact

Door status open or closed  
Programme marker CF

#### • Door D5 equipment

Single leaf door

#### White indicator

Red indicator  
Electric bolt  
Rebate contact

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