# **MD-EQUILOCK**

### **Electronic modules**

### Deported modules



Connected to a TILLYS control module, the MD-EQUILOCK deported module allows the acquisition and transport, on a secure bus, of contact and self-protection informations from intrusion sensors (radars, opening contacts, etc.) fitted with an EQUILOCK transponder.



The EQUILOCK transponders equate small-sized sealed modules (less than 1 cm<sup>3</sup>); they can be easily integrated in sensors in the place of balancing resistors.

Each transponder has a unique identification number and encrypted data transmission with the MD-EQUILOCK. Any sabotage attempts are immediately detected.



### THE PLUS POINTS

### Simplicity

The wiring and installation time is reduced thanks to the bus topology. The bus does not require to be configured or adjusted.

## Savings

A single MD-EQUILOCK can manage 64 sensors. The number of deported modules is divided by 10, the power consumption and the size of boxes and power supplies are similarly decreased.

A specific register also enables the electric power supply for radars to be switched off excluding the monitoring period.

## Omplete security

The encrypted digital communication, associated with the each transponder's unique identifier thus avoids listening to the bus, replay and sabotage.

# **Principles & Functionalities**

- Each of the 2 buses (X and Y) present on the MD-EQUILOCK can accept up to 32 EQUILOCK transponders. The module can therefore manage up to 64 intrusion sensors.
- Each bus can stretch to a length of 300 m, i.e. a total coverage of about 600 m.
- It is not required to configure or adjust the bus.
- The MD-EQUILOCK deported module detects the bus short-circuit and when it is switched off.
- In the event of physical failure, the bus can be looped to limit the risk of losing the connection.

# **EQUILOCK System**

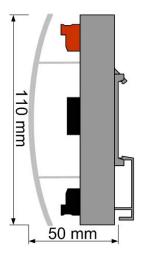
TILLYS RANGE	MD-EQUILOCK	EQUILOCK

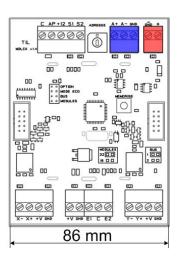
# **MD-EQUILOCK**

**Electronic modules** 

Deported modules

### Mechanical dimensions





## References

#### **Modules**

- MDLCK-BT: MD-EQUILOCK deported module, 2 buses with 32 transponders, mounted in BTE22 unit
- MDLCK-RD: MD-EQUILOCK deported module, 2 buses with 32 transponders, for DIN rail assembly

### **EQUILOCK Transponders**

- **EQUILOCK-A:** set of 8 EQUILOCK transponders addressed from 1 to 8
- **EQUILOCK-B:** set of 8 EQUILOCK transponders addressed from 9 to 16
- **EQUILOCK-C:** set of 8 EQUILOCK transponders addressed from 17 to 24
- **EQUILOCK-D:** set of 8 EQUILOCK transponders addressed from 25 to 32

### Local processing units

- TILLYS: self-contained module, can be extended to 16 readers max, 250 badges
- TILLYS2: self-contained module, with the management of 2 readers, can be extended to 16 readers, 250 badges
- TILLYS-IP: monitorable module, can be extended to 16 readers max, 5,000 badges
- TILLYS2-IP: monitorable module, with management of 2 readers, can be extended to 16 readers max, 5,000 badges

# **Transponders integration**

- Opinensions: 14 x 12 x 5 mm (head) + 45 mm cables (3)
- Assembly example : inside a radar



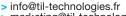


### **Detailed features**

- **()** Power supply: 10 V / 15 V
- **()** Power consumption: 18 mA
- **() Bus: RS 485**
- RD version dimensions: H 85 mm x L 110 mm x D 40 mm
- BT version dimensions: H 220 mm x L 188 mm x D 40 mm
- Connections: plug-in screw terminals
- **()** Maximum contact distance: 300 m
- **()** Maximum number of contacts: 32 per bus (total of
- Digital inputs: 2 (E1 and E2)
- **()** Balanced inputs: no
- **()** Relay outputs: no
- **()** Transistor outputs: 2 (S1 and S2)
- Humidity: 0 95% without condensation **()**
- **()** Operating temperature: -10°C to +70°C
- Attachment: DIN rail or BTE22 unit
- **()** Number of modules that can be connected by TILLYS: 4
- Weight: 0.26 kg



**Sales** Marketing



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