**M18 RFID HEAD**

**INDUSTRY HF RFID read/write unit**

The integrated industry reader is designed for high speed transponder applications and can used under harsh industrial environments. This device is available with different HOST interfaces as RS232, P-CAN or RS232TTL. A comfortable set of software functions supported over microsensys iID driver engine and the polling mode makes this reader very flexible for customer solutions.

microsensys offers an attractive component platform for RFID solutions – from transponder over smart readers to practical software tools.

**RFID System:**
- **Standards:** HF, iID®3000
- **Chip Solutions:** based on ISO 15693, ISO 14443, ISO 18000-3
- I-CODE®, Tag-it®, my-D®, iID®M, EM chip types, iID®G, iID®L, TELID®200/300, Mifare®ultralight,
- on inquiry: mic3®, iID®K, NFC, my-D®-S

**Basics:**
- **Closed coupling read / write unit**
- **iID® reader operation system**

**RFID Air Interface:**
- **Operating Distance:** 0 ... 30 mm
- **Reader Antenna:** P13
- **Field Direction:** closed coupling P13 antenna in front direction
- **Communication Rate:**
  - ISO 15693: 26.4 kbps
  - ISO14443: 106 kbps

**HOST Interface:**
- **P-CAN, RS232 or RS232TTL, I²C**
- M12 A-coded plug (type 52.38.250 with direct cable)
- **+8 ... 24V or 5V, low-noise**
  - typ. 30mA (idle mode)
  - typ. 200mA (active mode)
- **iID® 3000PRO interface protocol**
- **DOC or SPC**

**Software Interface:**
- **Software Interface:**
- **Operation Mode:** see actual API documentation of microsensys iID® driver engine

**Supported Commands:**
- **PC-Adapter for RS232TTL device**

**Options:**
- **Device Size:** D18 mm (M18x1), L 78.5 mm
- **Casing Material:** metal, plastic on front
- **Mounting:** mountable with 2 nuts
- **Operation Temperature:** -5°C ... +70°C
- **Storage Temperature:** -25°C ... +85°C
- **Emissions:** CE, EN 300330
- **Protection Class:** IP 65 for industrial applications

**Type:**
- **Downloaded OP System:**
  - iID3000
  - iID3000 customized
  - iID2000
- **HOST Interface:**
  - P-CAN
  - RS232TTL
  - RS232
  - 2 x OUT I²C, direct cable
- **Power Supply:**
  - +8 ... 24V
  - 5V+/-5%
  - +8 ... 24V
  - 5V+/-5%

*) in development or delivery only for special projects