

OBID® – RFID by FEIG ELECTRONIC



OBID® *classic* / OBID® *classic-pro*

RFID Reader Technology for Security Applications

OBID® – RFID Reader Technologies



OBID® RFID reader systems set the standard for contactless identification of individuals and objects. All our readers support transponders according to international standards like ISO or EPCglobal as well as well accepted, proprietary transponders. All our readers have international radio approvals according to ETSI or FCC. We offer a comprehensive product line of readers for the following three frequency ranges:

- LF (125 kHz) – OBID® *classic* / OBID® *megalock*
- HF (13.56 MHz) – OBID® *classic-pro* / OBID *i-scan*® HF
- UHF (860 – 956 MHz) – OBID *i-scan*® UHF

RFID Readers from the number 1 manufacturer

FEIG ELECTRONIC specialized in contactless identification (RFID), electronic controls and sensor technology. We are a world-wide, leading manufacturer of door control devices, detectors and RFID readers. Our RFID readers are sold under the brand name OBID®.

For over 40 years we have been leveraging our manufacturing and technology expertise to provide highly reliable and innovative products to our customers. In addition to our standard products, we also work with our partners to develop customized solutions to meet individual requirements. We advance the development of essential technology and markets through participation in basic research and

standardization in close cooperation with universities, organizations and industrial partners. As an OEM supplier, our products are only available through the system integrator and reseller channels.

Quality assurance is the main objective at FEIG ELECTRONIC. Our quality management system is certified to be in conformance with DIN ISO 9001:2008. We are equally focused on providing individualized support for our partners as they develop

and design their products and solutions. We offer regularly scheduled technology and product training to help our partners and customers independently plan, install and maintain their own applications.



Quality Management
We are certified

Voluntary participation in regular membership according to ISO 9001:2008

OBID® – RFID Reader Technologies

OBID®: secure and reliable RFID technology

The OBID® *classic-pro* (13.56 MHz) and OBID® *classic* (125 kHz) Reader families are ideally suited for security applications, like personal access control, ticketing, ID card identification, payment systems and electronic fare management. For vehicle access control, UHF technology allows reading ranges of several meters.

Some typical OBID® family reader applications are described in the following pages. If your specific application is not listed, please feel free to contact us, as we will most certainly have the applicable RFID components for your requirements.



DESIGN: Top design is natural for FEIG ELECTRONIC. Several OBID® products won the GOOD DESIGN Award 2008 and the red dot design award 2010 and were nominated for the Design Prize of the Federal Republic of Germany 2010.



reddot design award
winner 2010

PERSONAL ACCESS CONTROL

Just passing by: How can you monitor and determine who has access authorization and who does not? Access control systems equipped with OBID® readers facilitate reliable and wireless identification of transponders within networked systems, at any sized facility.

TICKETING

Quicker entrance to the ski lift or sporting event: ticketing applications equipped with OBID® readers reduce waiting times and clearly increase participants' enjoyment.

ID CARD IDENTIFICATION

Safely controlled: new digital eDocuments provide complete security. Passport and identity cards are more forgery-proofed and can be read securely by using OBID® readers; as an example, at a border control. These cards may also be utilized with electronic health insurance and other personalized Smart Cards.

PAYMENT SYSTEMS

Fast transaction at the cash register: Smart credit cards with an integrated RFID chip can be read by OBID® readers within a short distance. This allows a fast, reliable, and most of all, secure payment process. Furthermore, the readers are perfectly suited for integration into payment machines as the stored credit on the transponder can be recharged again and again.

ELECTRONIC FARE MANAGEMENT

Cashless bus & train entry: OBID® reader components provide faster payment procedures within public transit systems. This relieves a burden for the driver, reduces departure delays and improves user experience.

VEHICLE ACCESS CONTROL

Free entry with RFID: UHF technology allows for reading ranges of several meters and is well suited to be used in parking lots. Equipped with a suitable UHF transponder, authorized vehicles pass the access road which is controlled and checked by the UHF stand-alone complete system – at company or private use parking lots.



STAND-ALONE COMPLETE SYSTEMS (125 kHz / 13.56 MHz / UHF)

Stand-Alone Complete Systems require no host connection as they manage the access offline. Entry-level systems are access control terminals for up to 200 users. Transponders are programmed or deleted individually by using a master card. Access control terminals for IP-based networks manage up to 9,000 users in stand-alone operation. FEIG also offers UHF-based standalone vehicle access control systems, which provide parking applications with read ranges of several meters.



HOUSING READERS (125 kHz AND 13.56 MHz)

OBID® classic and OBID® classic-pro Housing Readers are most typically used for access control applications. In addition to an entry-level reader that only reads the transponder serial number and has a data clock interface, most of the multi-tag readers have multiple interfaces and are suitable for both box mount and surface mount installation. For integration into existing LAN networks, online and offline reader versions are available.



OBID®

A comprehensive family of RFID readers for highly demanding applications

OBID® offers complete product families (125 kHz and 13.56 MHz) for security applications. Reader modules, housed readers and desk top readers are available. FEIG ELECTRONIC also offers a complete UHF stand-alone system for vehicle access control. More detailed information for the devices can be found in the corresponding data sheets or on our website www.feig.de.

DESKTOP READERS (125 kHz AND 13.56 MHz)

OBID® classic and OBID® classic-pro Desktop Readers are directly connected to a PC for use at the Point of Sale with cash registers, reception desks, counters etc. The USB versions of these readers provide for fast data transfer rates as well as easy and reliable integration into existing host systems via a PC/SC driver. The design award-winning OBID® desktop readers are very flat, and will fit into any décor or environment.



READER MODULES (125 kHz AND 13.56 MHz)

125 kHz multi-tag reader modules with integrated antenna ID RWo1, ID RWo1L and ID RWAO2 are especially well suited for integration into access control and time and attendance terminals and vending machines. ID RWAO2 is able to operate as a stand alone reader, configuring the most important functions of the reader in an offline operational mode. 13.56 MHz multi-tag reader modules ID CPR are available in two versions, one with an integrated antenna and another for use with an external antenna. They are most often used for ticketing, ePayment and NFC applications and offer, depending on the reader version, several interfaces, 3.3V or 5V power supply and optionally, up to four SAM sockets for additional security functions.



Service Support +49 6471 3109-0

We can help. Our service support is available Monday through Thursday from 8:00 to 16:00 clock and on Friday from 8:00 to 13:00 clock.

Naturally our staff is available for further information and assistance in choosing the appropriate readers and transponders for your application. Please call us or send an e-mail to: obid-support@feig.de

