

## Multi Frequency Reader SA2-F-CAN

|                         |                            |                               |
|-------------------------|----------------------------|-------------------------------|
| RFID frequency          | 13.56 MHz                  | 125 kHz                       |
| RFID protocol           | ISO 14443a                 | all typical tags (extendable) |
|                         | ISO 15693                  |                               |
| Interface               | <b>CAN</b>                 |                               |
| Operating voltage range | 8...60 V                   |                               |
| Max. operating voltage  | 72V                        |                               |
| Max. power consumption  | 135 mW                     |                               |
| CAN bus speed           | 125, 250, 500, 1000 kbit/s |                               |
| Temperature range       | -30...+70 °C               |                               |



The reader supports the two main frequencies for RFID cards. At the low frequency 125 kHz, a wide range of available transponders are read. At the high frequency 13.56 MHz, the standards ISO14443a and ISO15693 are implemented. NFC devices are detected. The readable card range can be extended.

The reader implements the physical interface to the CAN bus.

The application areas of the rugged industrial reader can be used wherever transponder cards must be identified. Such identification systems can launch vehicles, provide access free or allow other authorization or prohibit. The UID of authorized cards are stored in the device. The release takes place by means of a command on the CAN-bus. The reader can be trained with the help of a "TeachOn"-card. To store the UID's at the "TeachOn"-card there exist a MTR-reader with an USB HID connection to the PC. The user programs the UID's on the reader using a convenient PC program. When the device is turned on the reader starts with the protocol of the "TeachOn"-card to configure the reader. The firmware can be convenient updated via the CAN bus in the field.

The power supply comes maybe from vehicle batteries 12, 24 or 48V. Surges voltages as they occur during braking are tolerated. For self-protection the device has internal suppressor diode triggers, when crossing the threshold voltage of approximately 70V, a resettable fuse. The unit has reverse polarity protection against installation errors.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter