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Multi Frequency Reader SA2-CAN-V3

RFID frequency	13.56 MHz	125 kHz
RFID protocol	ISO 14443a ISO 15693	all typical tags (extendable)
Interface	CAN	
Operating voltage range	8...60 V	
Max. operating voltage	72V	
Max. power consumption	135 mW	
CAN bus speed	125 kbit/s 500 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. Two LED's indicate the acceptance or rejection of the card.

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.

C / / ² I-nylyy {úI-úSYŠyú
 /KI-yŠšā 2N Y2RfāŌI-úā2yā y2ú ŠĒLJNŠāāfē I-LJLJN2ŌŠR ōē úKŠ LJI-NÚē NŠāLJ2yāŌfŠ T2N Ō2Y LJfēI-yŌŠ Ō2dzfR
 Ō2R ūKŠ dzāŠNŌā I-dzúK2NŌūē
 ú2 2LJŠNŌI-úŠ ūKŠ ŠljdzLJYŠyú ĄKlā ŠljdzLJYŠyú KI-ā ōŠŠy ūŠāúŠR I-yR T2dzyR ú2 Ō2Y LJfē ōlúK úKŠ fIYlúā
 T2N I- /fI-āā . RlāLŪI-f RŠŌlŌŠ
 LJdzNādzI-yú ú2 tI-NÚ mp 2T ūKŠ C / / wdzfŠā ĄKŠāŠ fIYlúā I-NŠ RŠāLJyŠR ú2 LJN2ŌlRŠ NŠI-ā2yI-ŌfŠ LJN2úŠŌúā2y
 I-ŌI-yāú KI-NYfTdzf
 lyúŠNfŠNŠyŌŠ ly I- NŠāIŘŠyŌlI-f lyāúI-ffI-úā2y ĄKlā ŠljdzLJYŠyú ŠŠyŠNŌI-úŠā dzāŠā I-yR ŌI-y NŌI-ŘlI-úŠ NŌI-Řl2
 FNŠljdzŠyŌē ŠyŠNŌē I-yRŠ 1T y2ú
 lyāúI-ffŠR I-yR dzāŠR ly I-ŌŌ2NŌRlI-yŌŠ ōlúK úKŠ lyāúNdzŌúā2yā YI-ē ŌI-dzāŠ KI-NYfTdzf lyúŠNfŠNŠyŌŠ ú2 NŌI-Řl2
 Ō2Y YdzylŌI-úā2yā
 I 2ŌŠŌŠNŠ ūKŠNŠ lā y2 3dzI-NŌI-yúŠŠ ūKI-ú lyúŠNfŠNŠyŌŠ ōlff y2ú 2ŌŌdzN ly I- LJI-NŪāŌdzfI-N lyāúI-ffI-úā2y 1T ūKlā
 ŠljdzLJYŠyú Ř2Šā ŌI-dzāŠ
 KI-NYfTdzf lyúŠNfŠNŠyŌŠ ú2 NŌI-Řl2 2N úŠfŠŌlā2y NŠŌŠLJúā2y ōKlŌK ŌI-y ōŠ ŘŠúŠNŌYlyŠR ōē údzNlyy ūKŠ
 ŠljdzLJYŠyú 2T I-yR 2y ūKŠ
 dzāŠN lā ŠyŌ2dzNŌI-ŠR ú2 ūNē ú2 Ō2NŌNŠŌú ūKŠ lyúŠNfŠNŠyŌŠ ōē 2yŠ 2N Y2NŠ 2T ūKŠ T2ff2Ōlyy YŠI-ādzNŠāY
 - - wŠ2NŪŠyú 2N NŠf2ŌI-úŠ ūKŠ NŠŌŠlŌlyy I-yúŠyI-
 - - LyŌNŠI-āŠ ūKŠ āŠLJlI-NŌI-úā2y ōŠūŌŠŠy ūKŠ ŠljdzLJYŠyú I-yR NŠŌŠlŌŠN
 - - /2yyŠŌú ūKŠ ŠljdzLJYŠyú lyú2 I-y 2dzúfŠú 2y I- ŌNŌŌdzlū ŘlāTŠNŠyú FN2Y ūKI-ú ú2 ōKlŌK ūKŠ NŠŌŠlŌŠN
 lā Ō2yyŠŌúŠR
 - - /2yādzfú ūKŠ ŘŠI-fŠN 2N I-y ŠĒLJŠNŠyŌŠR NŌI-Řl2K± ūŠŌKyŌlI-y T2N KŠĒLJ

ĄKlā ŘŠŌlŌŠ Ō2Y LJfēŠā ōlúK LJI-NÚ mp 2T ūKŠ C / / wdzfŠā hLJŠNŌI-úā2y lā ādzŌ2ŠŌú ú2 ūKŠ T2ff2Ōlyy two conditions:
 (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Statement

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