

Product Information

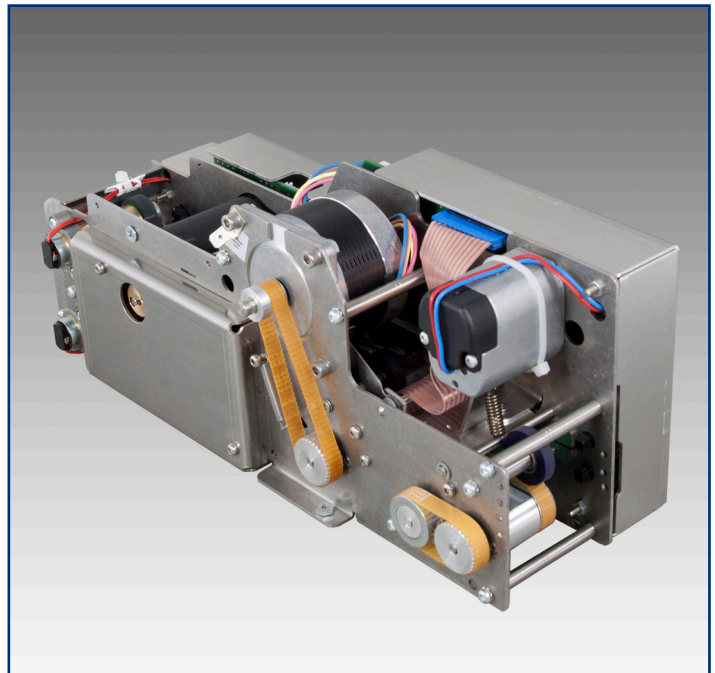
- Processing of contactless smart cards (multi-user)
- Processing of contactless tickets
- Direct thermal printing on thermo-sensitive surfaces, graphic printing
- Integrated CSC antenna
- 2 feeding modules for Leporello tickets
- Integrated burster
- RS-232 interface
- Flash Memory

Produktinformation

- Verarbeitung von berührungslosen Chipkarten
- Verarbeitung von berührungslosen Tickets
- Direkter Thermodruck auf thermo-sensitiven Flächen, grafikfähig
- Integrierte CSC Antenne
- Zwei Zuführungen für Leporello-CSC-Tickets
- Integrierte Reisseinheit
- RS-232 Schnittstelle
- Flash Memory

Information sur le produit

- Traitement de tickets sans contact
- Impression thermique directe sur supports thermosensitifs, impressions graphiques
- Antenne CSC intégrée
- Double alimentation pour tickets pliés en accordéon
- Rupteur intégré
- Interface RS-232
- Flash Memory



CSC TICKET ISSUER

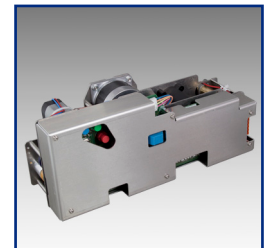
with thermal printing module and burster

CSC TICKET SPENDER

mit Thermodruckmodul und Reißereinheit

EMETTEUR DE TICKETS CSC

avec module d'impression thermique et rupteur



CCS Challenge Card Systems GmbH
Rombacher Hütte 12a
44795 Bochum
Germany
Tel. +49 (0)234 94391 -0
Fax +49 (0)234 94391 -99
info@ccs-cardtec.com
www.ccs-cardtec.com

CCS
built-in reliability

Dimensions (Without Muzzle)

W 110 mm H 117 mm D 291 mm

Power Supply

24 V DC (5 V DC internal)
Text printing 150 W max.
Graphic printing 200 W max.

Tickets

Thickness: 0.3 - 0.6 mm
Format: 54 x 85.6 mm
Material: paper, compound
Bursting force for tickets: 4 - 7.5 daN

Ticket Transport Speed

Normal transport: 350 – 500 mm/s
Printing depending on paper quality: 50 – 100 mm/s

Print Head

Type: Bevel
Resolution: 8 dot/mm
Max. print width: 48 mm

Character Set

PICA, other character sets on request.
All character sets can be printed with double height and/or double width or with enlargement (factor 2, 4 and 8).
Each character set includes the full IBM set of 20h - FFh.

Interface

V.24/RS-232: 9 600 to 115 200 Baud (RXD,TXD,GND)
Communication protocol on request

Environment

Range of temperature: 0 - 50 °C
Air humidity (RH): 20 - 80% non condensing
Vibration: 10 - 55 Hz,
2 mm amplitude
along axis x, y and z
for max. 30 minutes

Microprocessor System

1 x ATMEL ATmega 128 (Flash Memory)
1 x Single chip processor with firmware

Memory

128 kB Flash Memory
128 kB RAM, 32 kB EEPROM

Internal Burster

3 x 24 V DC geared motors
2 x roller drivers flanged on motor shaft
1 x drive flanged to motor shaft with gears

Card Detection Sensors

4 x photo sensor for feeding
3 x photo sensor for bursting
3 x photo sensor for transport

Maintenance and Service

Every 3 months or every 300 000 tickets:
Check thermal head and light barriers
Every 6 months or every 500 000 tickets:
Check belts and DC motors
Every 12 months or every 6 000 000 tickets:
Check stepper motor and rollers

Reliability

MTBF*: > 20 000 h
MCBF*: > 200 000 tickets
MTTR: < 0.5 h in workshop

** without wear parts*

