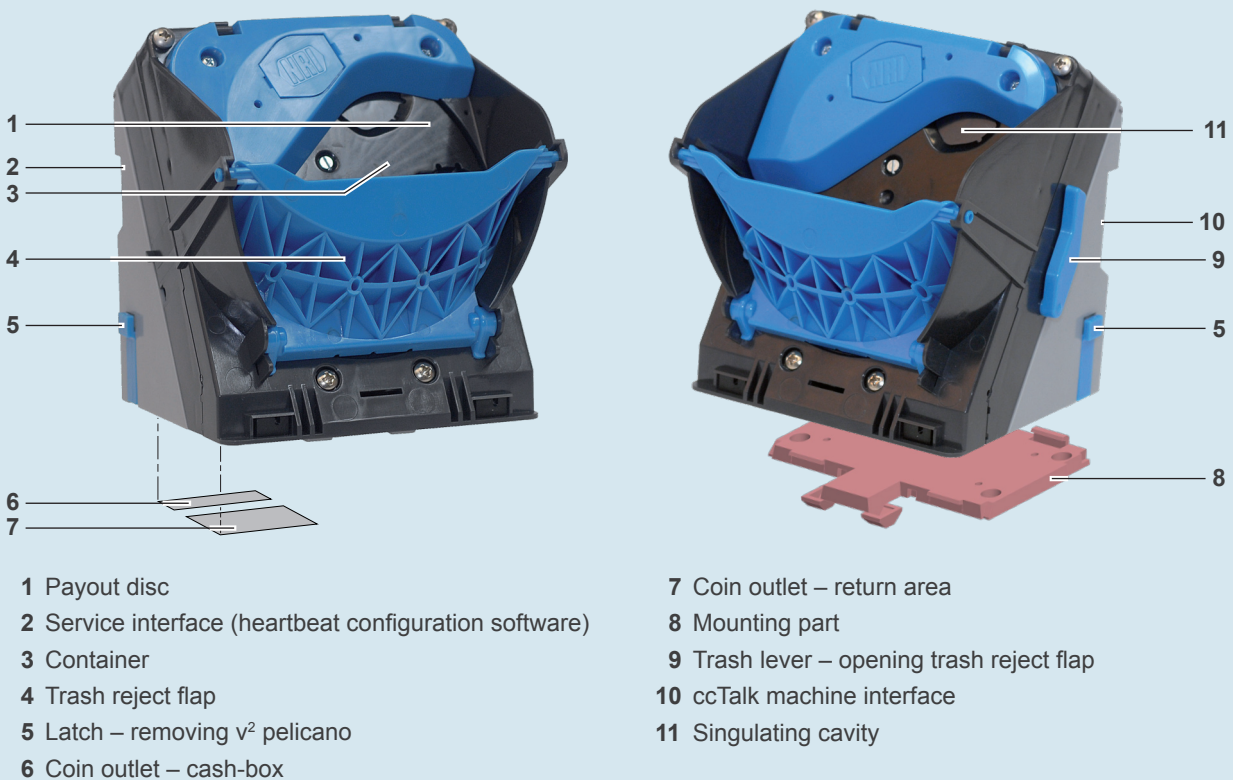


The v² pelicano is the latest addition to our coin validator family achieving 4 coins per second validation and acceptance rates through a bulk mixed coin input. This unit can be configured with our CX Recycler or can be used and configured with our h² nano hopper family or other coin hopper solutions.

Overview



Models

Depending on the diameter of the coins to be handled the v² pelicano is available with different payout discs:

- Disc 1 for 15–26.9mm coins
- Disc 2 for 16–28.8mm coins
- Disc 3 for 17–31mm coins
- Disc 4 for 18–32.7mm coins
- Further discs projected



Properties and application

- Applications for the v² pelicano are:
 - Retail self checkout machines
 - Self service kiosks
 - Transportation fare collection
 - Transportation toll collection
 - Retail payment solutions
- Incorporates 2 coin processing units in one chassis:
 - Coin singulator
 - Coin validator
- Input up to 20 different coins at once
- Coin detection of max. 16 different coins
- NRI multi-frequency measurement technology (MFT) with 6-pin inductive sensor including 3 windings per coil
- 24 measurements are analysed for each coin validated
- Acceptance and cash-box monitoring for manipulation protection
- Acceptance speed of up to 4 coins per second, adjustable with PC configuration software
- Auto-maintenance function removes all foreign objects by opening the trash reject flap after each transaction upon request of the machine
- Service-friendly mounting part for easy plug in & out
- Control of s² HSD-3000 3-way high-speed sorter (option)

Function

Once the customer inputs up to 20 mixed or up to 10 of the largest coins (depending on the coin size) into the container, the v² pelicano sends a coin present signal to the control unit. The control unit responds with a start signal, the v² pelicano starts rotating the payout disc in order to isolate the coins using the singulating cavities in the payout disc. Within these cavities each coin is validated.

If the measured values of the coin are within the acceptance band programmed, the coin is accepted for sale as soon as it has passed the acceptance gate. If the measured values exceed the acceptance band the coin is rejected and directed into the return area.

The v² pelicano communicates the value of each accepted coin to the control unit. When the container is empty, the control unit may stop the payout disc.

After each transaction the v² pelicano opens and closes its trash reject flap to remove all foreign objects upon request of the machine.



For details on the v² pelicano please refer to the manual.

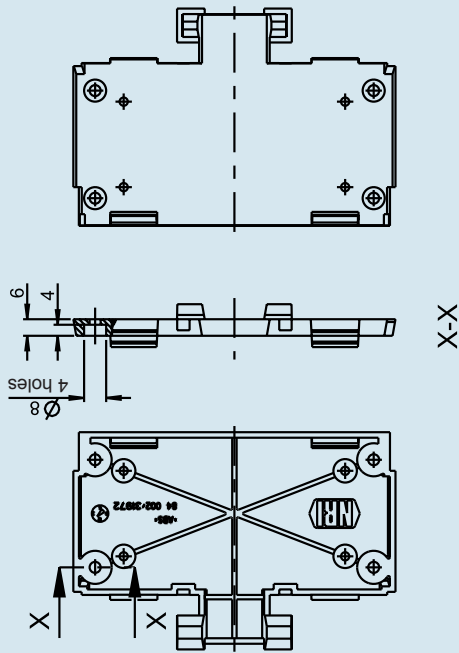
Technical data

Supply voltage	12V to 24V DC $\pm 10\%$										
Power consumption	Standby: 80mA, Operation: 700mA max. at 12V, 500mA max. at 24V										
Temperature range	0°C up to 60°C										
Temperature change	Max. 0.2°C/min.										
Relative humidity	Up to 90%										
Condensation	Not permitted										
Coin acceptance	16 coin types max. in 24 channels Diameter: 15–32.7mm (depending on payout disc) Thickness: 1.0–3.3mm, other coin sizes on request Speed: up to 4 coins/s										
Dimensions	Height: 141.2mm Width: 131.7mm Depth: 125.6mm (133.6mm min. with open trash reject flap)										
Mounting position	Vertical, max. deviation: $\pm 2^\circ$										
Machine interface	Serial ccTalk interface: <table> <tr> <td>Pin 1 Data</td><td>Pin 6 nc</td></tr> <tr> <td>Pin 2 GND</td><td>Pin 7 12V DC supply</td></tr> <tr> <td>Pin 3 nc</td><td>Pin 8 GND</td></tr> <tr> <td>Pin 4 GND</td><td>Pin 9 nc</td></tr> <tr> <td>Pin 5 Reset</td><td>Pin 10 nc</td></tr> </table>	Pin 1 Data	Pin 6 nc	Pin 2 GND	Pin 7 12V DC supply	Pin 3 nc	Pin 8 GND	Pin 4 GND	Pin 9 nc	Pin 5 Reset	Pin 10 nc
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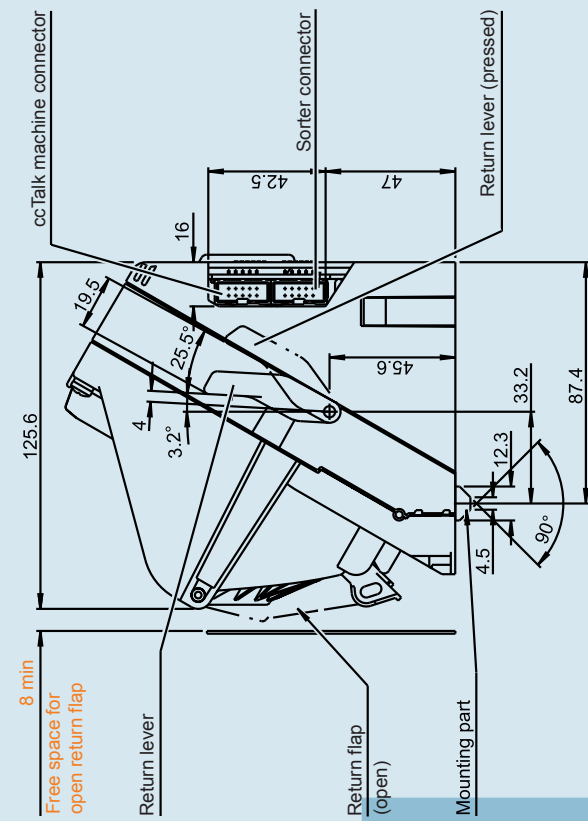
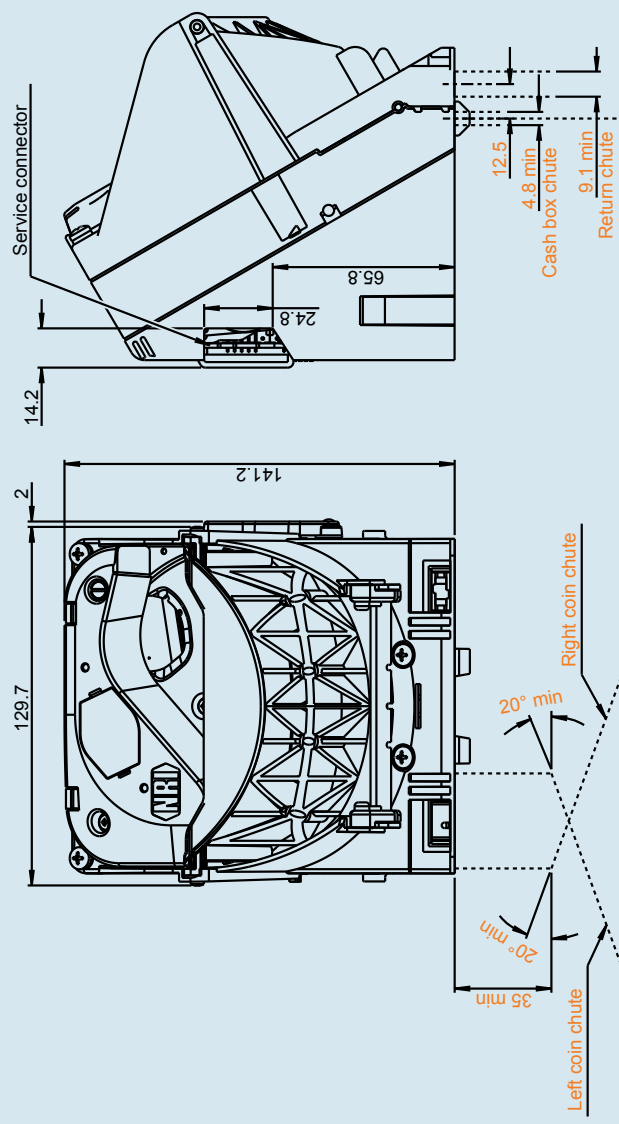
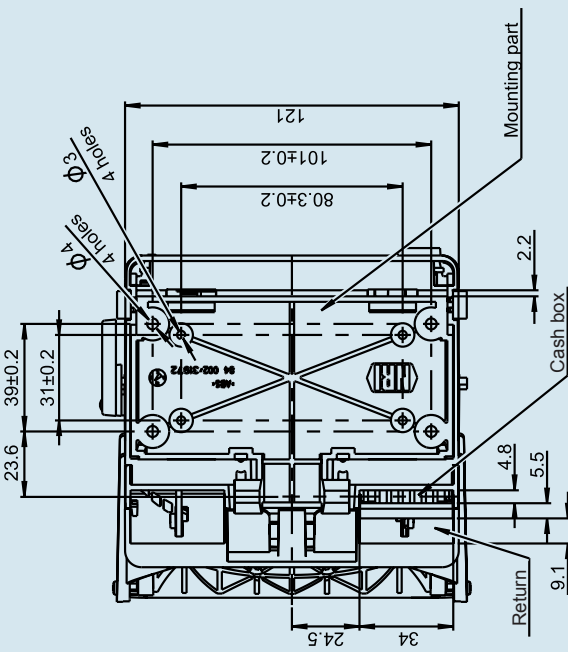
Mounting dimensions

v² pelicano

Mounting part

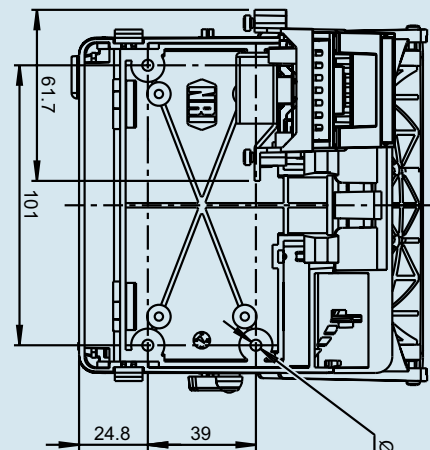
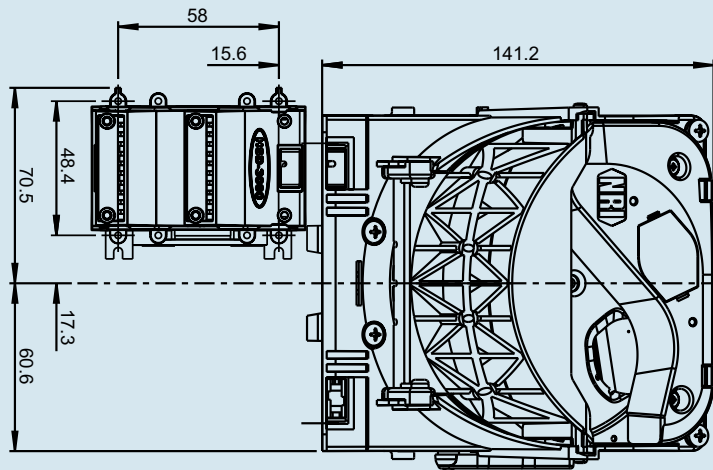


X-X

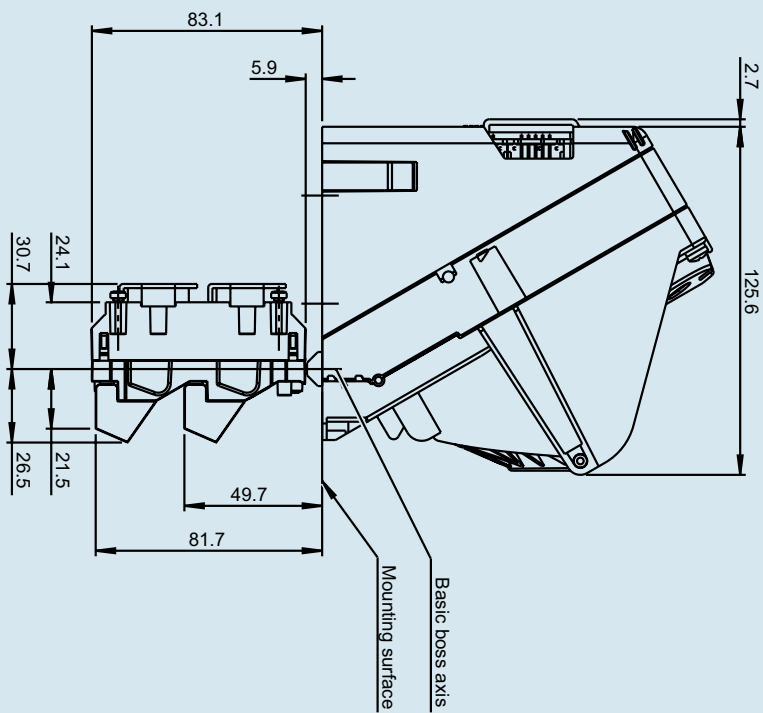




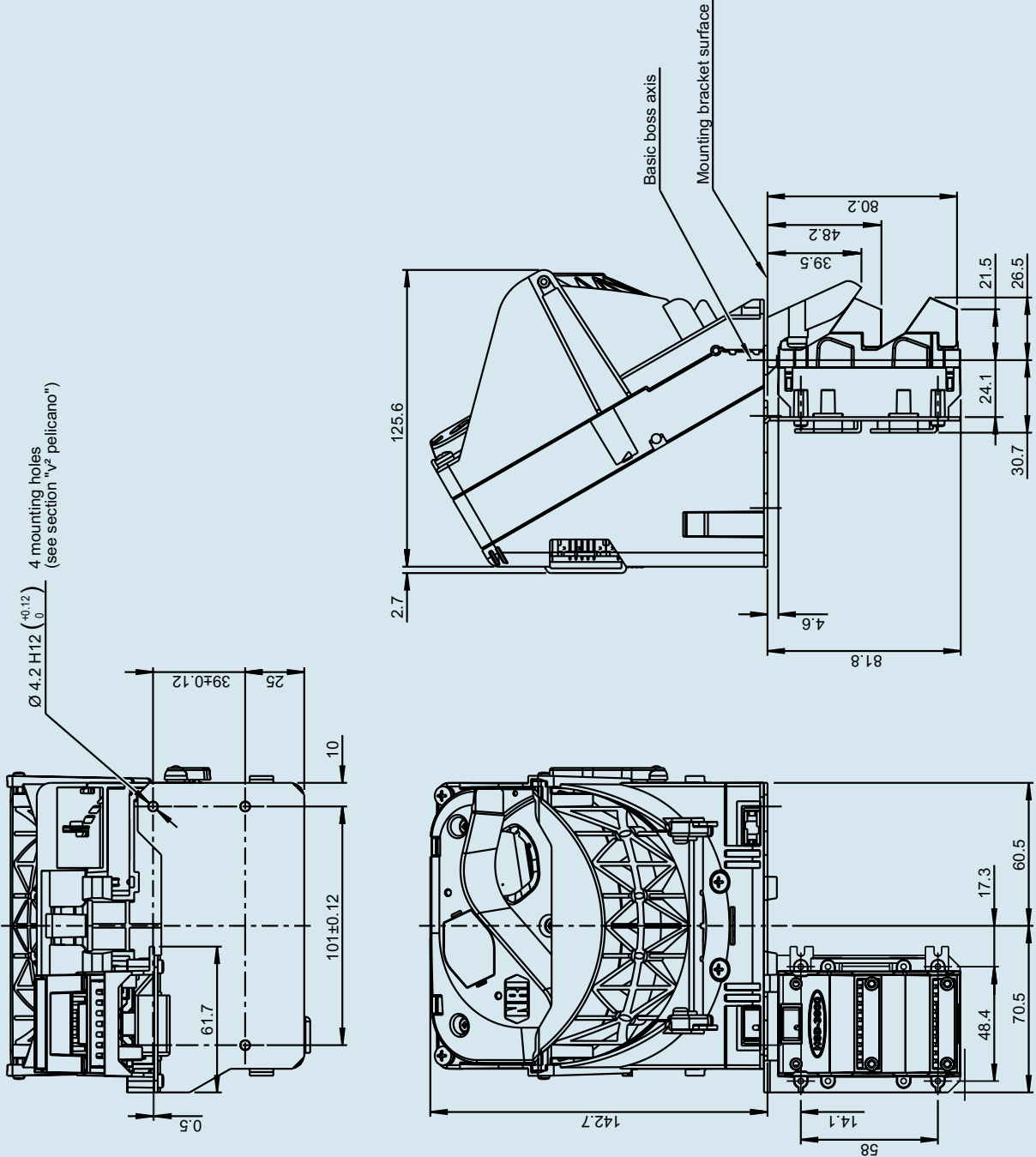
Applications with s² HSD-3000



Ø 4
4 mounting holes
(see section "V² pellicano")



Applications with s² HSD-3000, NRI mounting bracket and return chute





Accessories

- 10-pole ccTalk ribbon cable, 400mm (order no. 2569)
- 3-way high-speed sorting
 - s² HSD-3000 sorter (pelicano version) (order no. 30500)
 - Optional mounting bracket (order no. 43013) plus fixing screws (4x self-tapping pan head, Ø 2.9x9.5, (order no. 28836))
 - Optional return chute (order no. 43014) plus fixing screws (2x self-tapping countersunk head Ø 2.9x6.5, (order no. 38475))
- For PC application:
 - ccTalk RS-232 converter G-55.0492 (order no. 27643)
 - ccTalk USB converter G-55.0495 (order no. 27844)
 - 24V power pack (order no. 24684) with
 - » Euro plug connecting cable (order no. 24683) or
 - » connecting cable for USA (order no. 24853) or
 - » Euro plug connecting cable with international adapters (order no. 24683 + 22502)
 - ccTalk demo software to test PC functions of ccTalk validators (freeware at www.cranepi.com, **NRI Support**)
 - Virtual COM port (VCP) driver for USB operation (freeware at www.cranepi.com, **NRI Support**)
- For PC configuration: heartbeat/WinEMP basic module (order no. 28535)
 - Chip card (ID-000 format) with basic heartbeat license for the purpose of diagnostics and individual configuration of all NRI coin validators integrated in a small SIM card reader (USB)
 - Power pack
 - USB PC connecting cable
 - Option: Additional data block download license to update complete coin and device configuration (in preparation)
 - What can be set?
 - » Payout speed
 - » Coin acceptance bands/tolerances
 - » Teaching of new coins (generating new acceptance band)
 - » Coin values etc.
 - » Sorter configuration
 - » Diagnostics

Additional technical documentation

All NRI product descriptions, e.g., for other coin validators or changers are available as PDF at www.cranepi.com, **NRI Support**.



A detailed description of the ccTalk interface/protocol you will find in the "ccTalk Serial Communication Protocol, Generic Specification" (www.cctalk.org). An extra v² pelicano ccTalk specification is available on request.