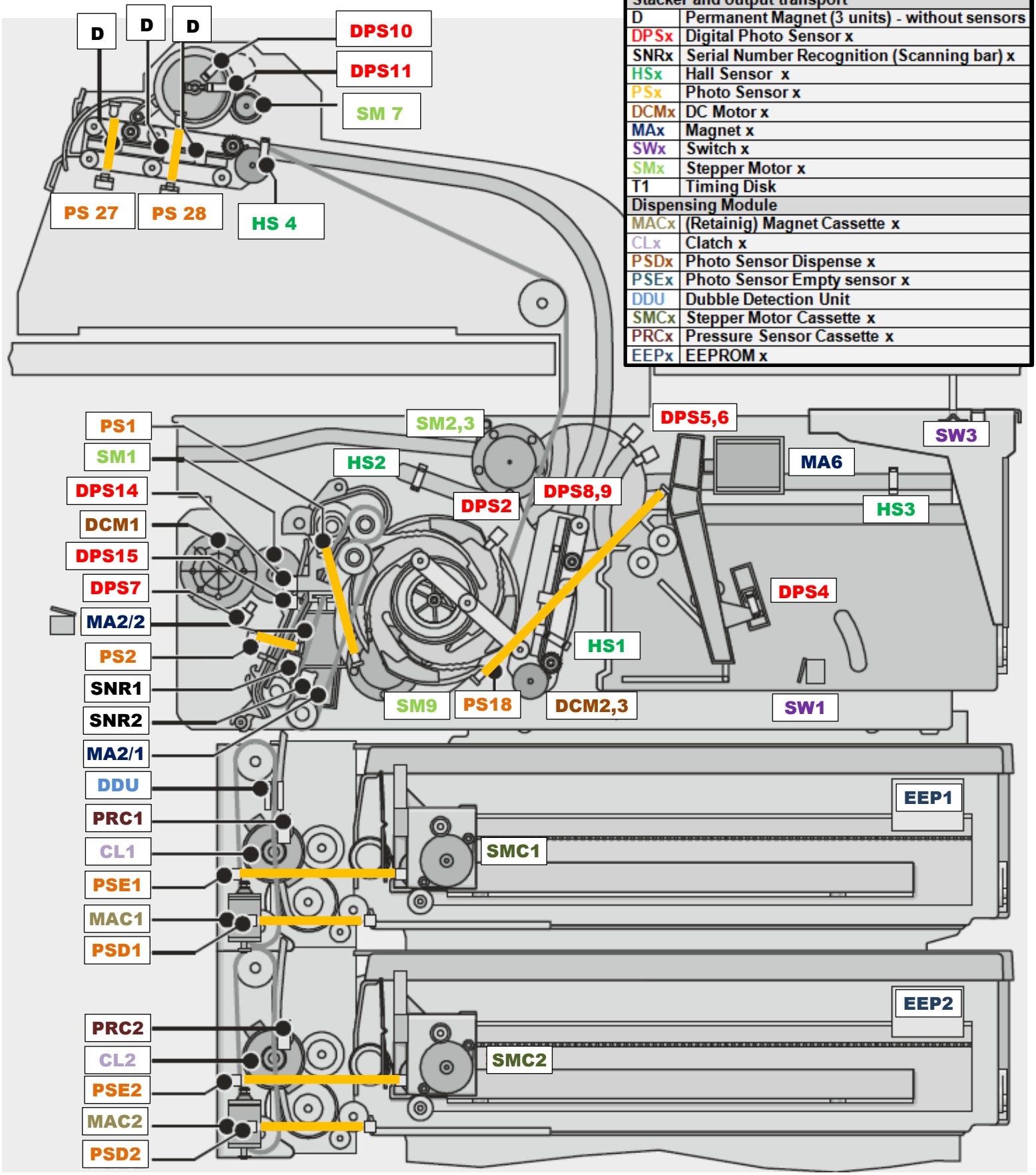
DIEBOLD NIXDORF

CMD V4 Sensor & Actor Overview

DIEBOLD NIXDORF

Stacker and output transport	
D	Permanent Magnet (3 units) - without sensors
DPSx	Digital Photo Sensor x
SNRx	Serial Number Recognition (Scanning bar) x
HSx	Hall Sensor x
PSx	Photo Sensor x
DCMx	DC Motor x
MAx	Magnet x
SWx	Switch x
SMx	Stepper Motor x
T1	Timing Disk
Dispensing Module	
MACx	(Retainig) Magnet Cassette x
CLx	Clatch x
PSDx	Photo Sensor Dispense x
PSEx	Photo Sensor Empty sensor x
DDU	Dubble Detection Unit
SMCx	Stepper Motor Cassette x
PRCx	Pressure Sensor Cassette x
EEPx	EEPROM x



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Error	Error Description	Sensor	Module
09	Locking handle open CMD-V4 is not in dispensing position	**SW3**	Stacker
10	Controller defective or		Controller/ Battery
10	Battery empty or battery jumper not connected: only with self-test commands for		Controller/ Battery
11	No software (FW download)		Controller/ Software
12	Safety switch open	**SW 2**	Stacker
13	Device lock waiting		Software/ FW
14	CMD-V4 minimum configuration is missing	**SW1**	Software/ FW
15	Cassette distributor board with invalid coding, not inserted or defective		
16	Output transport coding invalid	**X3 (Connector CMD Controller)**	Controller
17	Belt drive of clamp defective (M 3) or jam	**DCM 3**	Clamp/ Motor
18	Banknote jam during dispensing	**PSDx, DDU, PS1, PS18**	Stacker/ Sensor
19	Clamp transport defective/blocked.	**DCM 2/3, HS 1/2/3/4, D (3x Permanent Magnet)**	Stacker/ Clamp
20	Single reject switch (MA2/1, MA2/2, SM1) defective/blocked	**MA 2/1, MA 2/2, SM1, DPS 7/14/15**	Stacker/ Singel Reject
21	Faulty measuring station (DDU)	**DDU**	Extractor/ Stacker/ Controller
22	Photosensor amplifier faulty or photosensor initialization unsuccessful	**"All" PSx**	Extractor/ Stacker/ Controller
23	Routing disk (SM2/SM3) defective/blocked	**SM2/SM3, DPS 5/6/ 8/9,**	Stacker
24	Reject/retract drive defective/blocked (MA 6)	**MA 6, DPS 4**	Stacker/ Reject Cassette
25	Dispensing drive (DCM 1) defective / blocked	**DCM 1**	Stacker
26	Stacker wheel drive (SM 9) defective/blocked	**SM 9, DCM 1, T1, DPS 2**	Stacker
28	Shutter error	**DPS10/11, DCM 7 Outdoor, SM7 Indoor**	Shutter
29	Output photosensor covered (manipulation)	**PS27, PS28**	Shutter
3X	Too many problems dispensing from cassette x (x = 1 - 6)	**CL x, SMC x, MAC x,**	Extractor Unit x/ Cassette x
4X	No note dispensing possible or possibly faulty note contact pressure when	**CL x, SMC x, MAC x,**	Extractor Unit x/ Cassette x
5X	Too many bad banknotes from cassette x (x = 1 - 6)	**CL x, SMC x, MAC x,**	Extractor Unti x/ Cassette x
6X	Cassette x defective (x = 1 - 6)	**EEPROM x, PRC x, SMC x**	Extractor Unti x/ Cassette x
70	Banknote measurement point (DDU) not ready	**DDU**	Extractor/ Stacker/ Controller
7X	Dispensing sensor dirty or pressure sensor faulty (x = 1 - 6)	**PSDx**	Extractor Unit x
8X	Cassette empty sensor dirty (x = 1 - 6)	**PSEx**	Extractor Unit x
90	SAT: Photosensor PS1 (P) dirty; stacker wheel input	**PS1**	Stacker
91	Photosensor dirty Tray monitoring: Photosensor PS18	**PS18**	Stacker
93	Compartment empty' (Single reject) PS2	**PS2**	Stacker
95	Removal photosensor PS27 (P)	**PS27, HS4, D (3x Permanent Magnet)**	Shutter
98	Bundle rear edge control, Shutter photosensor PS 28	**PS28, HS4, D (3x Permanent Magnet)**	Shutter

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Start-up behavior

Test Description	Error Code	Description

Controller test	**10**	In the event of an error, operation with the status code <10> (Controller defective) will be interrupted.
Firmware test	**11**	The validity of the downloaded firmware is checked. If necessary, operation with the status code <11> (No firmware) will be interrupted.
Memory reset		The internal markers are reset. In addition to the general storage area, there are also program and parameter areas, which contains remains even if the supply voltage fails because of a support battery.
Determination of the device type		With the help of the connected components on the controller board via the corresponding connectors, the device type gets automatically determined (quantity of dispensing units, shutter available (yes/no), output direction).
Checking the cassettes	**14**	If the minimum requirement is not met, this will be represented on the status display with the code <14>. The device is not ready for operation.
Checking the photosensors	**70…9A**	The following status displays / warnings could occur in the event of error: <70 ... 9A> Photosensors dirty.
Checking device locks	**12** **13**	Operation is interrupted when the device lock 'Customer retract without storage of bundle' is in effect (status display <13>) or the safety switch is 'Open' (status display <12>).
Checking mechanical and electronic components	**21** **23** **24** **25** **26**	Individual components are checked. The following errors are possible: <21> Multiple-note detection unit defective (DDU) <23> Routing disk defective/blocked (SM 2 / SM 3) <24> Reject/retract drive defective/blocked (MA 6) <25> Dispensing motor defective (DCM 1) <26> Stacker wheel drive defective / blocked (SM 9)
Checking the transport paths	**18** **19**	The following status displays could appear in the event of error: <18> Banknote jam during dispensing <19> Clamp transport defective/jammed
Checking the shutter	**28**	The processing is terminated with (Status display <28>) if the test cycle has not been completed correctly.