YRC1000

General additional technical Information

List of status variable

Contents

1. $PX 000-020

$PX	Meaning	Comment / Description
000	Current Position (theoretical/Command)	Current Position (Pulse) incl. last active Tool, Base-Axis, ext. Axis
001	Current Position (theoretical/Command)	Current Position (Base coordinate) incl. last active Tool, Base-Axis, ext. Axis
002	detect Position	Position detected by SRCH instruction (Pulse)
003	detect Position	Position detected by SRCH instruction (Base coordinate)
004	Get Position	Last Position of MOVx-Instr. befor GETS without shift data (Base coordinate)
005	Current step	Current step (teaching position) (Pulse)
006	Reached Position	Current destination position (Pulse)
007	Current position (without Shift- and Correction value)	Current Position (Robot coordinate) without shift value and Comarc correction
008	Current Position (real/Feedback)	Current Position (Base coordinate) incl. last active Tool, Base-Axis, ext. Axis
009		
010	Current Position (real/Feedback)	Current Position (Pulse) incl. last active Tool, Base-Axis, ext. Axis
011	REFP 1	REFP 1 (Pulse)
012	REFP 2	REFP 2 (Pulse)
013	REFP 3	REFP 3 (Pulse)
014	REFP 4	REFP 4 (Pulse)
015	REFP 5	REFP 5 (Pulse)
016	REFP 6	REFP 6 (Pulse)
017	REFP 7	REFP 7 (Pulse)
018	REFP 8	REFP 8 (Pulse)
019		
020		

2. $PX 021-050

$PX	Meaning	Comment / Description
021	SREFP 1	SREFP 1 (Pulse) (Robot and Station)
022	SREFP 2	SREFP 2 (Pulse) (Robot and Station)
023	SREFP 3	SREFP 3 (Pulse) (Robot and Station)
024	SREFP 4	SREFP 4 (Pulse) (Robot and Station)
025	SREFP 5	SREFP 5 (Pulse) (Robot and Station)
026	SREFP 6	SREFP 6 (Pulse) (Robot and Station)
027	SREFP 7	SREFP 7 (Pulse) (Robot and Station)
028	SREFP 8	SREFP 8 (Pulse) (Robot and Station)
040	Correction-Value	Accumulated correction amount (Base Coordinate) by COMARC
041	Shift-Value	Shift amount (BF) correction holding amount – base coordinate
042	Shift-Value	Shift amount (RF, BS, ST) robot, base and station shift amount - robot coordinate
043	Shift-Value	Shift amount (TF) tool shift amount
044	Shift-Value	Shift amount (UF) user frame shift amount
045	Shift-Value	Shift amount (3D) 3D shift amount (base coordinate)
050	Current torque of each axis	-300% bis +300% equates TORQUE SPEC at „Servo Monitor“

3. $PX 100-699

$PX	Meaning	Comment / Description
100 to 149	Detect Position	Positions (Pulse) detected by NSRCHON RIN#(1)
150 to 199	Detect Position	Positions (Base) detected by NSRCHON RIN#(1)
200 to 249	Detect Position	Positions (Pulse) detected by NSRCHON RIN#(2)
250 to 299	Detect Position	Positions (Base) detected by NSRCHON RIN#(2)
300 to 349	Detect Position	Positions (Pulse) detected by NSRCHON RIN#(3)
350 to 399	Detect Position	Positions (Base) detected by NSRCHON RIN#(3)
400 to 449	Detect Position	Positions (Pulse) detected by NSRCHON RIN#(4)
450 to 499	Detect Position	Positions (Base) detected by NSRCHON RIN#(4)
500 to 549	Detect Position	Positions (Pulse) detected by NSRCHON RIN#(5)
550 to 599	Detect Position	Positions (Base) detected by NSRCHON RIN#(5)
600 to 649	Detect Position	Positions (Pulse) detected by NSRCHON RIN#(6)
650 to 699	Detect Position	Positions (Base) detected by NSRCHON RIN#(6)

4. $B 000-050

$B	Meaning	Comment / Description
001	Execution series number	Values: 0 to 17
002	Pointer “Work Piece detected”	Value 0: not work piece detected Value 1: work piece detected (only by Search-Function)
006	HSEN	(See manual Handling application) Status of HSEN-Instruction
008	SYSTART	Status of SYSTART (Overlimit; Signal Reset <> 0)
009	SETFILE / GETFILE	Value 0: OK all other values: Error - Status of SETFILE / GETFILE instruction - Robot calibration file selection OK/NG (0 = OK / 1 = Error); past time $B007
016	Counter of work piece detected	Numbers of detected position by NSRCH RIN#(1):
017	Counter of work piece detected	Numbers of detected position by NSRCH RIN#(2)
018	Counter of work piece detected	Numbers of detected position by NSRCH RIN#(3)
019	Counter of work piece detected	Numbers of detected position by NSRCH RIN#(4)
020	Counter of work piece detected	Numbers of detected position by NSRCH RIN#(5)
021	Counter of work piece detected	Numbers of detected position by NSRCH RIN#(6)
041	SFTON Pxxx BF active	Shift 0=not active / 1=active
042	SFTON Pxxx RF active	Shift 0=not active / 1=active
043	SFTON Pxxx TF active	Shift 0=not active / 1=active
044	SFTON Pxxx UF active	Shift 0=not active / 1=active
045	SFTON3D Pxxx active	Shift 0=not active / 1=active
046	SFTON BPxxx active	Shift 0=not active / 1=active
047	SFTON EXxxx active	Shift 0=not active / 1=active
050	Position Check MOVJ P000 CHK GETS B000 $B050	0 = Possible to move 1 = Out of range 2 = Pulse limit over

5. $I 000-020

$I	Verwendung / Bezug	Bemerkung
000	WORK IN/NOT SHIFT completion status	Conveyor Sync with Shift WORK IN/NOT 0= not completed / 1= completed
006	WORK ID SHIFT completion status	Conveyor Sync with Shift WORK ID 0= not completed / 1= completed
012	WORK IN/NOT information	Conveyor Sync with Shift WORK IN/NOT 0=no workpiece exists / 1=workpiece exists
018	WORK ID information	Conveyor Sync with Shift WORK ID 0=ID not exist / 1 to 32767 (decimal number of JOB-Registry (JET ENTRY)

6. $D 000-010

$D	Meaning	Comment / Description
004	Current Position of Conveyor	Current Position [0.001mm] CV#(1)
005	Current Position of Conveyor	Current Position [0.001mm] CV#(2)
006	Current Position of Conveyor	Current Position [0.001mm] CV#(3)
007	Current Position of Conveyor	Current Position [0.001mm] CV#(4)
008	Current Position of Conveyor	Current Position [0.001mm] CV#(5)
009	Current Position of Conveyor	Current Position [0.001mm] CV#(6)