☆☆☆ Updating of FBs OS V4.74

08/08/2014

Support FBs-RZR module to connect resolver for position detection as below :

Communication parameters setting between PLC comm. port & resolver module .Baud Rate : 38400 bps

- .Data bit : 8-bit
- .Parity : Even
- .Stop bit : 1-bit
- .Fatek communication protocol

Related registers and relay for interface between main unit and resolver module

. The register R3992 is used to specify Port 2 or 4 of PLC main unit is the communication interface with resolver module

R3992=5AA5H, it tells port 2 working with resolver module

- =5AA6H, it tells port 4 working with resolver module
- . R3993=Error register; High byte=Err code, Low byte=Err count
 - Err code =01h~0Fh, communication error
 - =10h, error of resolver module or disconnection with resolver
 - =20h, illegal data from resolver module
 - =FFh, no communication between P2/P4 and resolver module
- . R3994=Retain the newest error of R3993
- . R3995=Degree offset of machine actual position and resolver's (Needs to be provided by application program, for exa. -179~180 or -359~0)
- . R3996=Current machine position in degree via the calculation of R3995 & R4096 (0 ~ 359)
- . R4096=Original position reading value of resolver (0 ~ 1439)

The PLC main unit will immediately calculate the current machine position in degree storing into register R3996 according to the newest receiving data from resolver module while in communication interrupt service routine, and then redirect to execute HSC0I interrupt service routine for application operation

- . M1943 =1, enable HSC0I interrupt which redirects from the communication of resolver module
 - =0, disable HSC0I interrupt which redirects from the communication of resolver module
- . When PLC stays in RUN mode, it updates the original position reading value into R4096 during every communication interrupt service; while in STOP mode, it doesn't update the value
- . The fast processing response is about 1.4mS if detecting the position being changed

• Support to read the bar code production information of PLC main unit



- D : Starting address of register to store the system status
- When execution "EN" =1, this instruction being executed, and if Gp=1, it means to get the bar code production information of PLC main unit; total quantity in byte of bar code production information will be stored in D register, the value will be 0 of D register if not existed bar code production information; and if the value is not zero, it means the PLC main unit exists the bar code production information, D+1 and after registers store the bar codes.

Gp=2~3, reserved for future.

System status format :

Register	Content	
D	N (Even)	
D+1	Bar code byte 2	Bar code byte 1
D+2	Bar code byte 4	Bar code byte 3
D+	Bar code byte N	Bar code byte N-1

Register	Content	
D	N (Odd)	
D+1	Bar code byte 2	Bar code byte 1
D+2	Bar code byte 4	Bar code byte 3
D+	0	Bar code byte N