

WECON

Programming



WECON Technology Co., Ltd.

Website: <http://www.we-con.com.cn/en>

Technical Support: chengxf@we-con.com.cn

Skype: Jason.chen842

Phone: 86-591-87868869

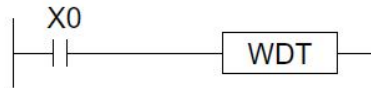
WDT Instructions

1. Instruction Description

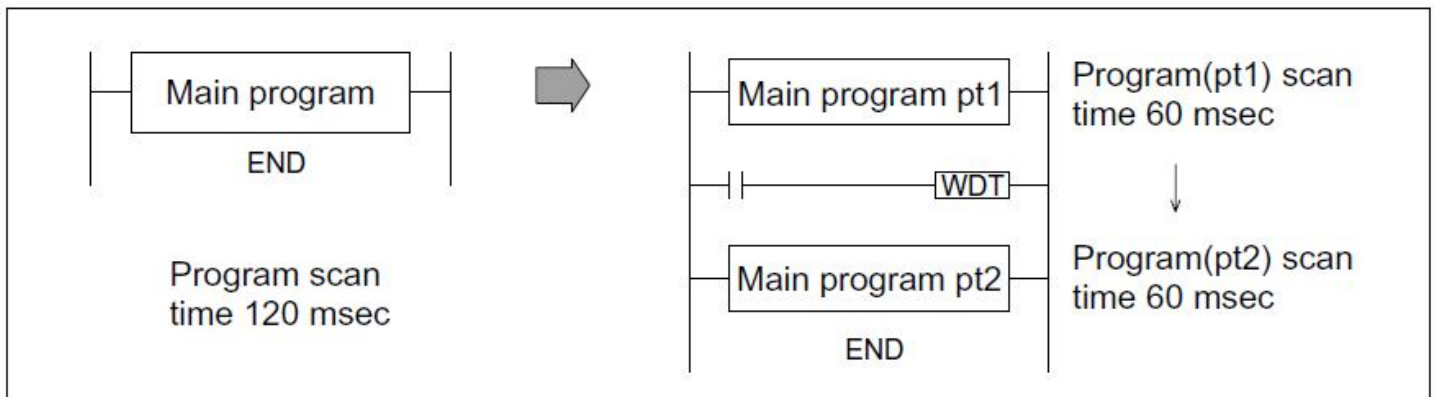
Name	Function	Bits(bits)	Pulse type	Instruction format	Step
WDT	monitoring	16	No	None(needn't driver connect point's	1
WDTP	timer's refresh	16	Yes	single instruction)	1

The PLC system have a timer ,which are used to monitor whether the user's program execution time is a time-out. If time is out , the user program will stop and report alarm .Executing WDT instruction can reset monitoring timer, and makes the monitoring timer restart timing ,avoid the time-out error.

2.Operation:

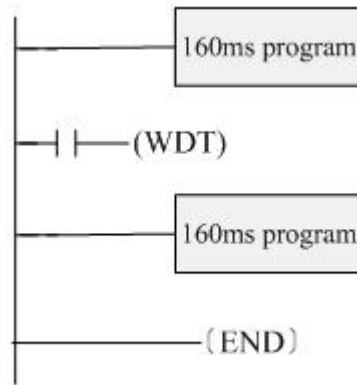


The WDT instruction refreshes the PLC's watchdog timer. The watchdog timer checks that the program scan (operation) time does not exceed an arbitrary time limit. It is assumed that if this time limit is exceeded there is an error at some point. The PLC will then cease operation to prevent any further errors from occurring. By causing the watchdog timer to refresh (driving the WDT instruction) the usable scan (program operation) time is effectively increased.



If the operation of user's program is too complex (for example, too many Cycle of calculation), an error may occur when the implementation of programming running out . If necessary, the program can use WDT instruction (for example, between the FOR ~ NEXT instruction can insert the instructions); If the program's scanning time is longer than the value of D8000 (default 200ms), we can insert program between the WDT instructions. The program will be divided into pieces ,every piece's scanning time is less than 200ms or change the setting value of D8000.

3.Programming example



This program scanning time is 320ms. we can divide program into two parts with the WDT instruction, so that each part of the program scanning time is bellow 200ms

4.PLC monitor

