Traffic Light System

Thursday, December 8, 2022   12:49 PM

Num	Input Patterns			Result
	PE2 walk	PE1 North	PE0 East	
0		000		No Cars No pedestrians
1		001		Cars on East
2		010		Cars on North
3		011		Cars on East and North
4		100		Pedestrians ,No cars
5		101		Pedestrians ,East cars
6		110		Pedestrians ,North cars
7		111		Cars on both ,Pedestrians

State	6-Led output PF5 to PF0	Hex	Walk-Led output PF3 - PF1	Hex
GoEast	001100	0xC	0010	0x02
WaitEast	010100	0x14	0010	0x02
GoNorth	100001	0x21	0010	0x02
WaitNorth	100010	0x22	0010	0x02
Walk	100100	0x24	1000	0x08
FlashOff1	100100	0x24	0000	0x00
FlashOn1	100100	0x24	0010	0x02

Num	Name	6-LED	PF3,PF1	Time	In=0	In=1	In=2	In=3	In=4	In=5	In=6	In=7
0	GoEast	East green, North red	Red	0.8 S	GoEast	GoEast	WaitEast	WaitEast	WaitEast	WaitEast	WaitEast	WaitEast
1	WaitEast	East yellow, North red	Red	0.5 S	GoNorth	GoNorth	GoNorth	GoNorth	Walk	Walk	Walk	Walk
2	GoNorth	North green, East red	Red	0.8 S	GoNorth	WaitNorth	GoNorth	WaitNorth	WaitNorth	WaitNorth	WaitNorth	WaitNorth
3	WaitNorth	North yellow, East red	Red	0.5 S	GoEast	GoEast	GoEast	GoEast	Walk	Walk	Walk	GoEast
4	Walk	Both roads red	Green	0.8 S	Walk	FlashOff1	FLashOff1	FlashOff 1	Walk	FlashOff1	FlashOff	FlashOFF1
5	FlashOff1	Both roads red	off	0.5 S	FlashOn1	FlashOn1	FlashOn1	FlashOn1	FlashOn1	FlashOn1	FlashOn1	FlashOn1
6	FlashOn1	Both roads red	Green	0.5 S	FlashOff2	FlashOff2	FlashOff2	FlashOff2	FlashOff2	FlashOff2	FlashOff2	FlashOff2
7	FlashOff2	Both roads red	Off	0.5 S	FlashOn2	FlashOn2	FlashOn2	FlashOn2	FlashOn2	FlashOn2	FlashOn2	FlashOn2
8	FlashOn2	Both roads red	Green	0.5 S	GoEast	GoEast	GoNorth	GoEast	GoEast	GoEast	GoNorth	GoNorth

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