Signal	Description	I/O
Sbqm_in_teller_1	Indicates that teller 1 is available	Input
Sbqm_in_teller_2	Indicates that teller 2 is available	Input
Sbqm_in_teller_3	Indicates that teller 3 is available	Input
Sbqm_in_mster_reset	A reset signal that resets the whole system to its original state	Input
Sbqm_in_photocell_enterance	Reading the entrance of the queue	Input
Sbqm_in_photocell_exit	Reading the Exit of the queue	Input
Sbqm_out_empty_flag	The LSB represent the full flag	Output
Sbqm_out_full_flag	The MSB represent the full flag	Output
sbqm_out_queue_7seg	Shows how many customers in the queue	Output
sbqm_out_wtime_7seg_1	Shows how many time a the custome is going to wait (ones)	Output
sbqm_out_wtime_7seg_2	Shows how many time a the custome is going to wait tens)	Output

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Range
0 or 1, "1" means that the teller is available
1 or 1, "1" means that the teller is available
2 or 1, "1" means that the teller is available
0 or 1, "1" resets the system
0 or 1, "0" indicates that some one is standing in front of the sensor
1 or 1, "0" indicates that some one is standing in front of the sensor
0 or 1, "1" indicates that the queue is empty, "0'' indicates that the queue is not empty
0 or 1, "1" indicates that the queue is full, "0'' indicates that the queue is not full
0 to 7
From 0 to 7
From 0 to 7