

Color Sorter Project / PLC\_1 [CPU 1511-1 PN] / Program blocks

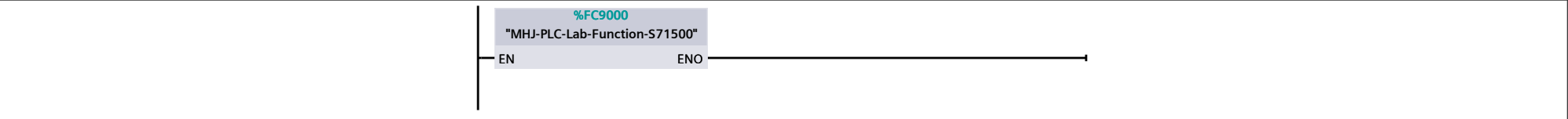
Main [OB1]

Main Properties							
General							
Name	Main	Number	1	Type	OB	Language	LAD
Numbering	Automatic						
Information							
Title	"Main Program Sweep (Cycle)"	Author		Comment	Automation of Raw Material Sorting Station	Family	
Version	0.1	User-defined ID					

Main			
Name	Data type	Default value	Comment
▼ Input			
Initial_Call	Bool		Initial call of this OB
Remanence	Bool		=True, if remanent data are available
Temp			
Constant			

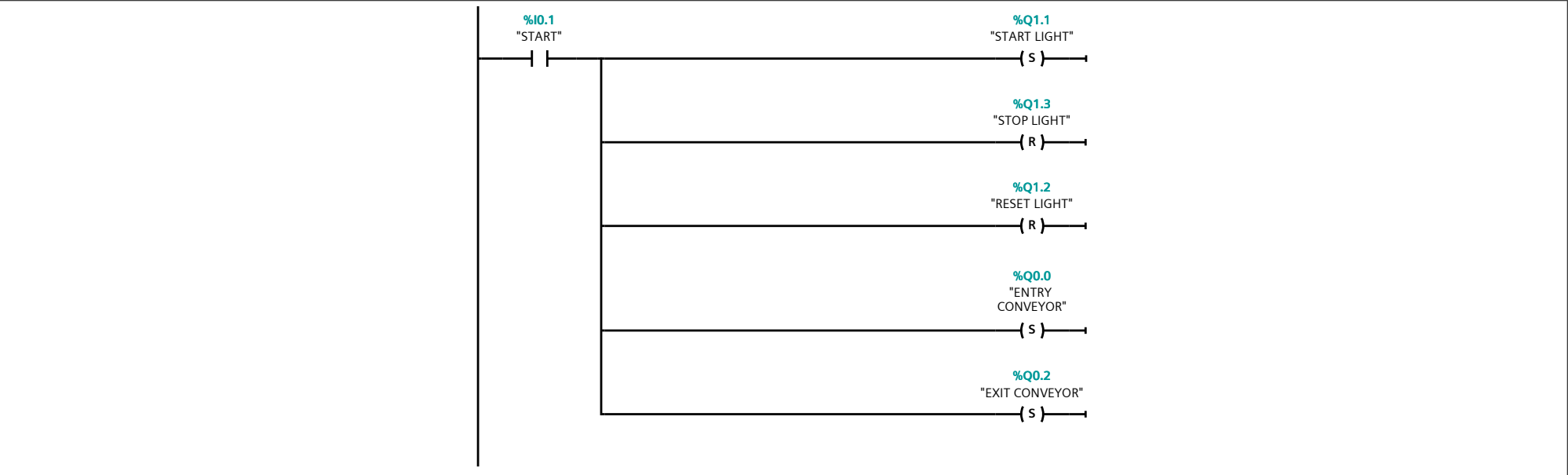
Network 1: PLC & FACTORY IO

Connects Tia Portal with Factory IO



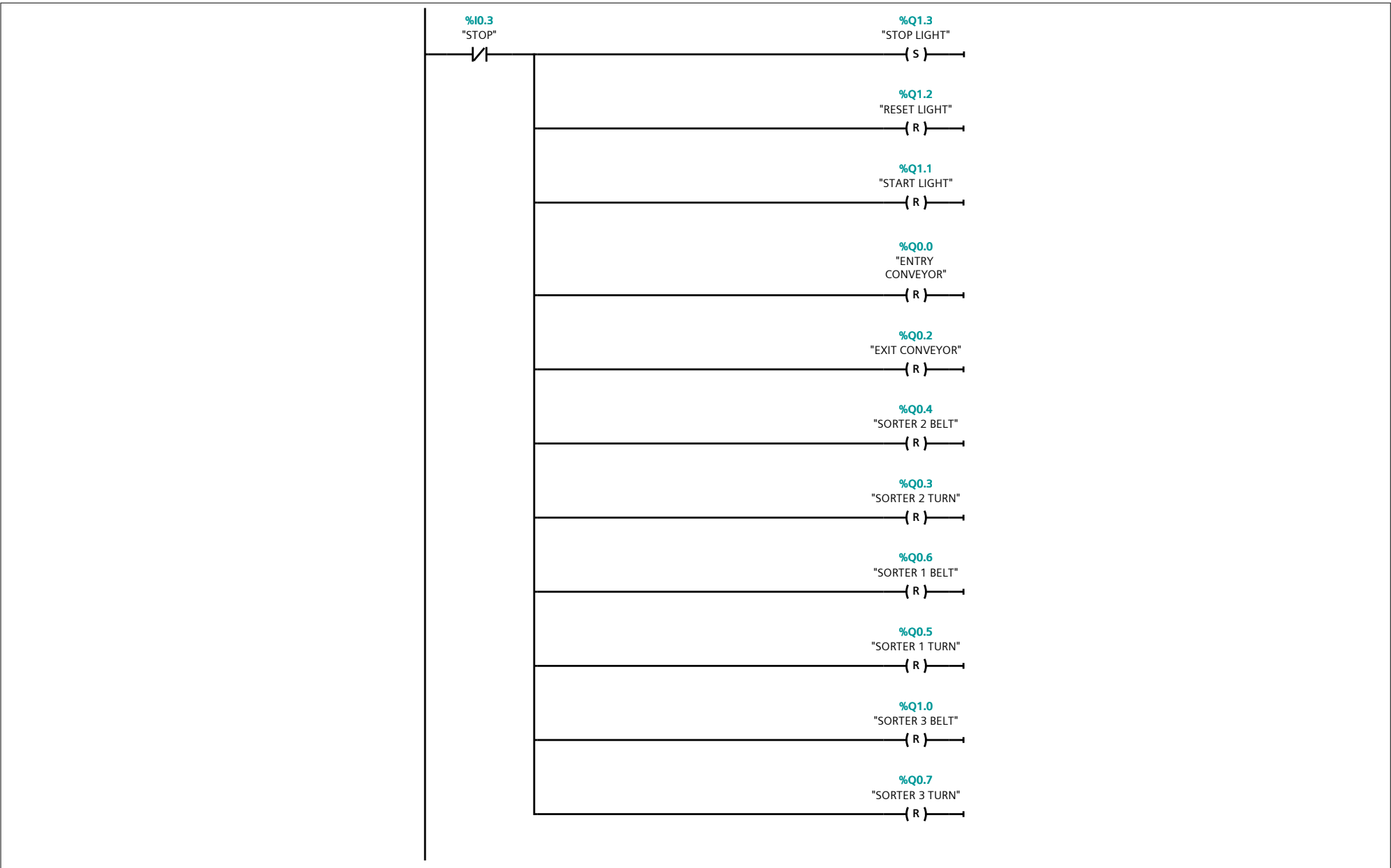
Network 2: START

Setting up the start button



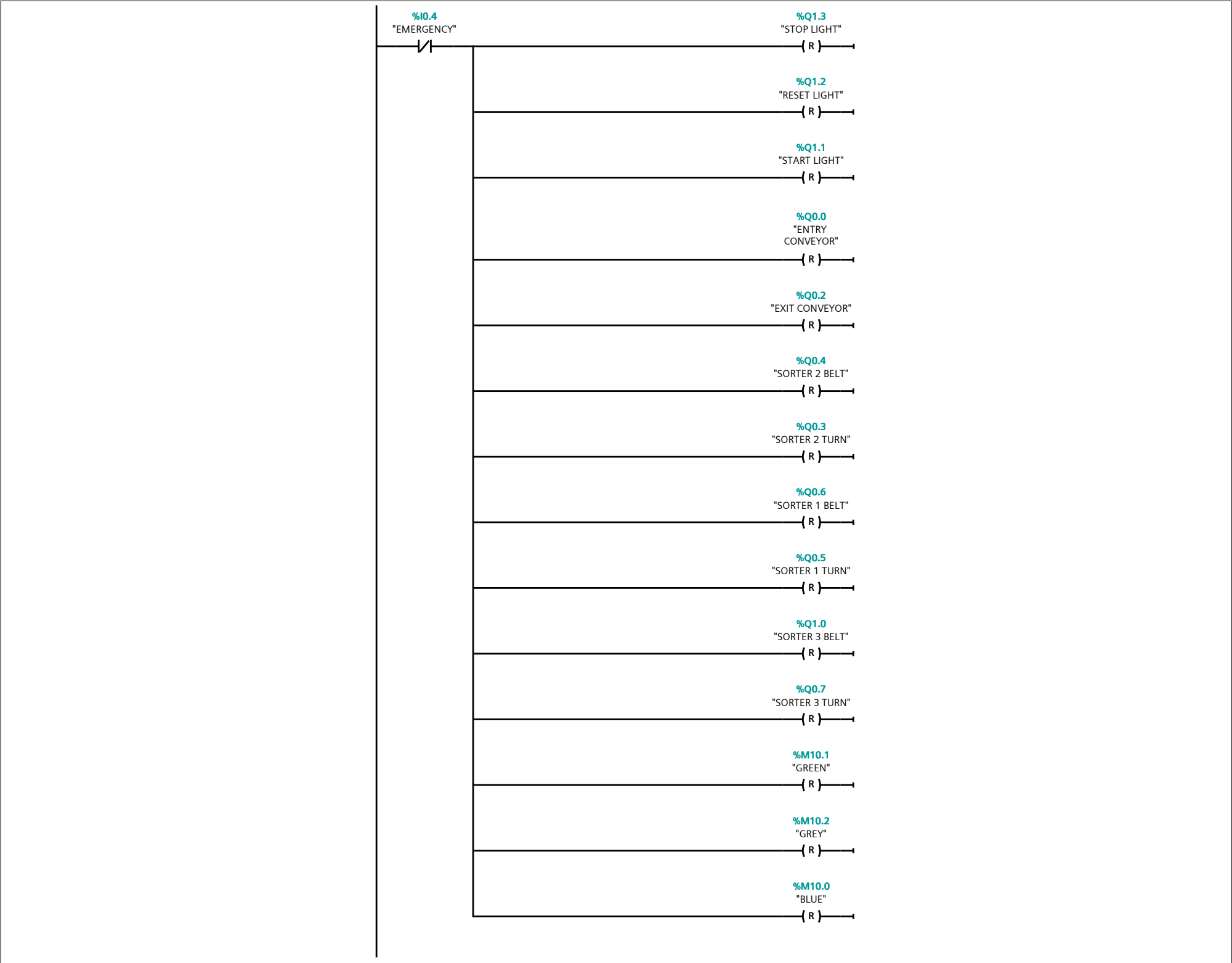
Network 3: STOP

Setting up stop button



## Network 4: EMEGERNCY BTN

## Setting up emergency button



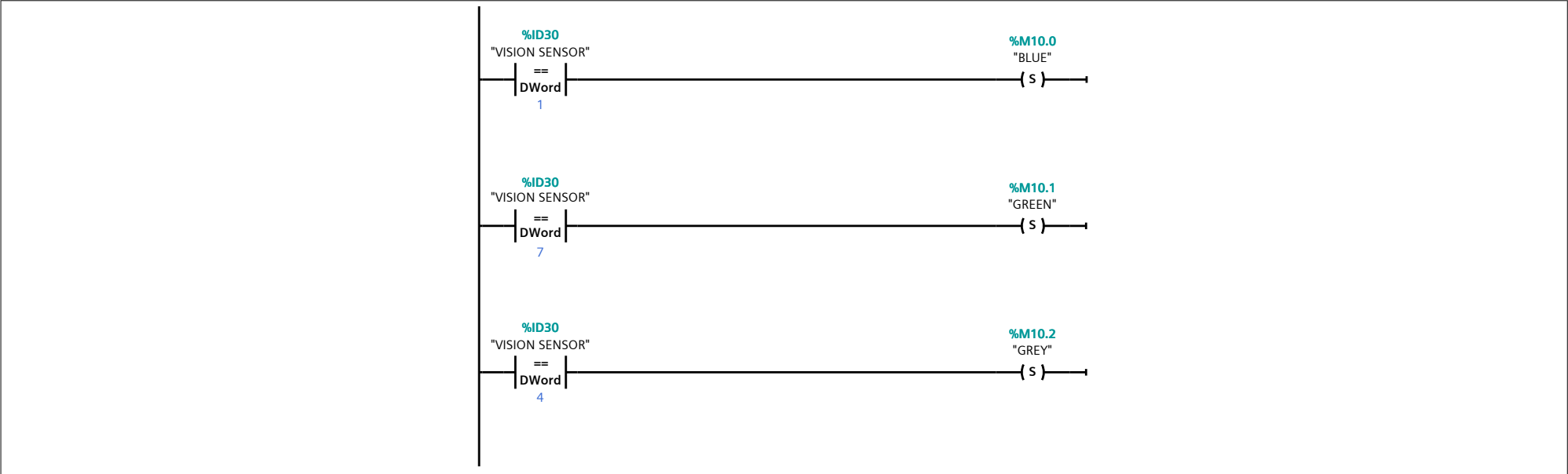
Network 5: RESET

Setting up reset button



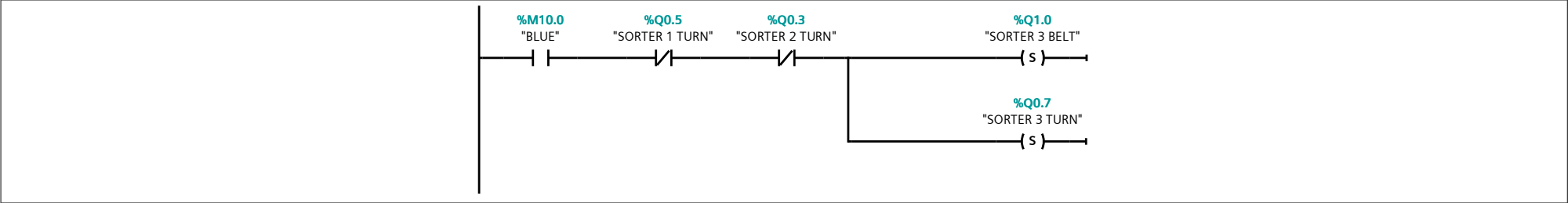
Network 6: SET BOXES

Setting up box colors with vision sensor



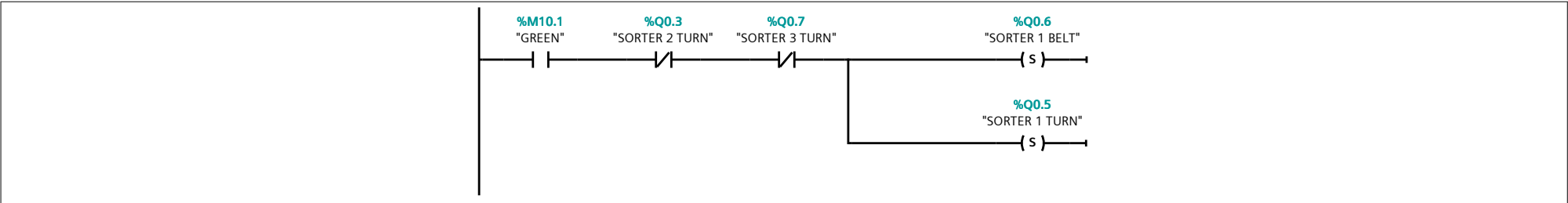
Network 7: SET SORTER 1

Setting up Sorter 1



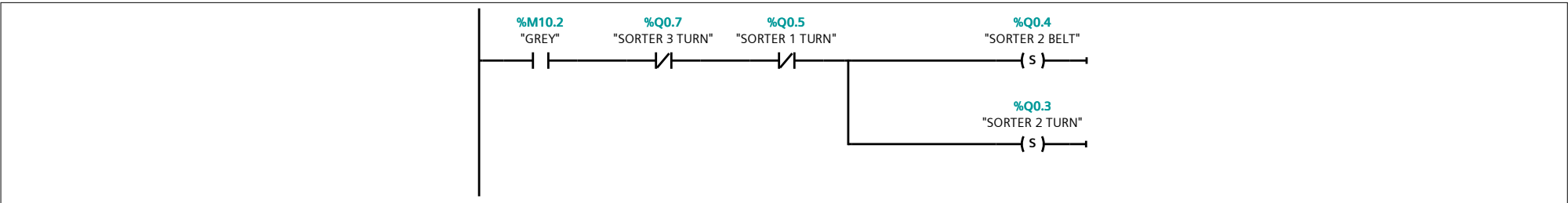
Network 8: SET SORTER 2

Setting up Sorter 2



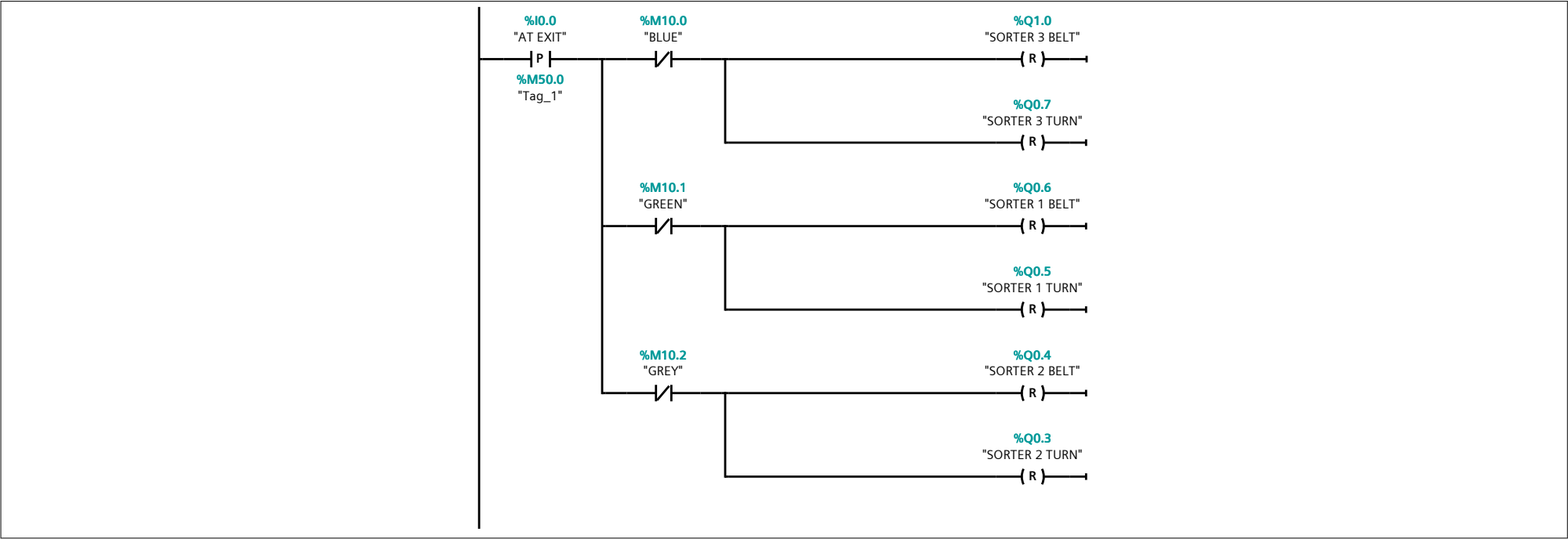
Network 9: SET SORTER 3

Setting up Sorter 3



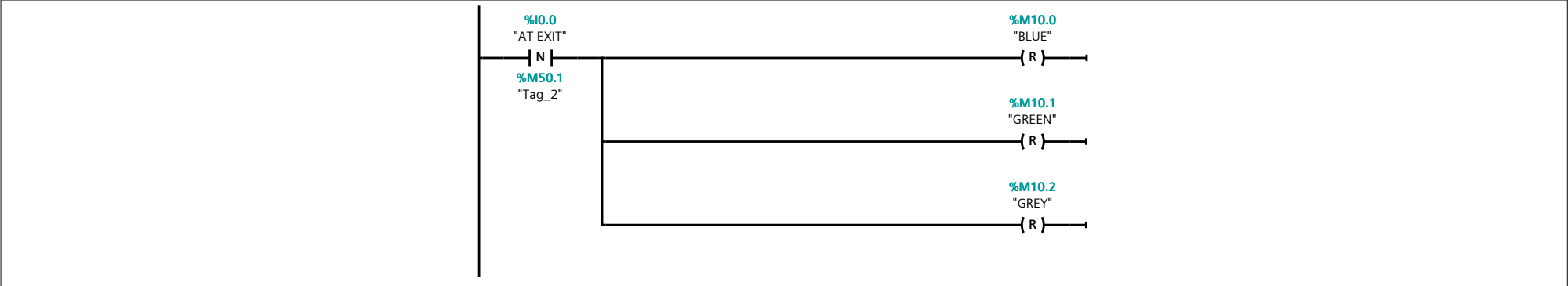
Network 10: RESET SORTER

Resetting the Sorters



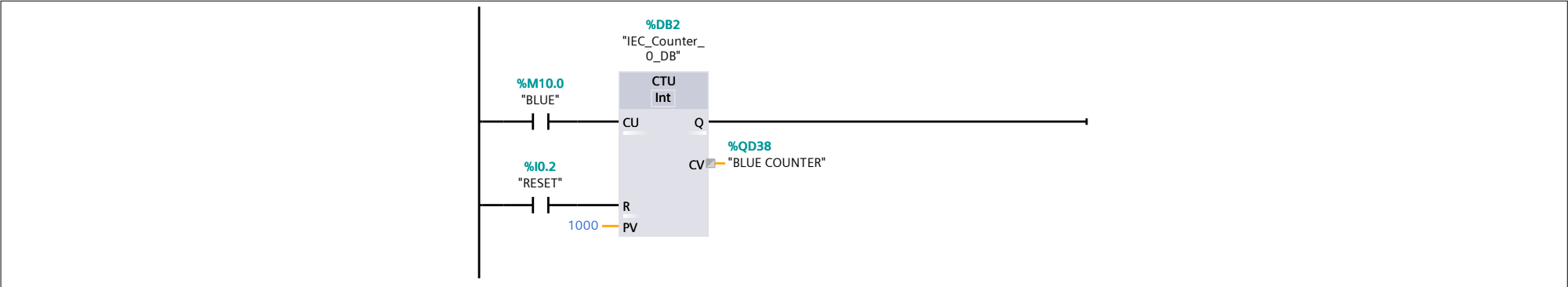
Network 11: RESET BOXES

Resetting the boxes



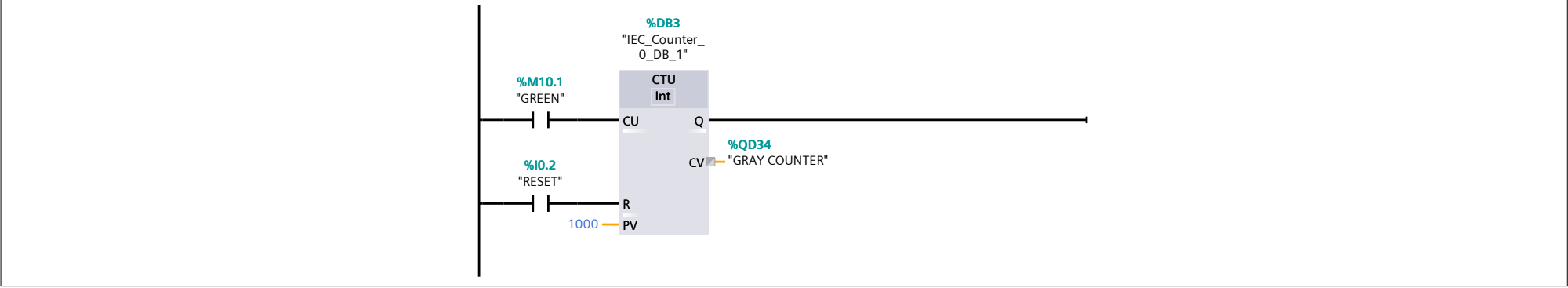
Network 12: BOX 1 COUNTER

Counter for Blue boxes



Network 13: BOX 2 COUNTER

Counter for Green boxes



Network 14: SET BOX 3

Counter for Grey boxes

