

Totally Integrated Automation Portal		
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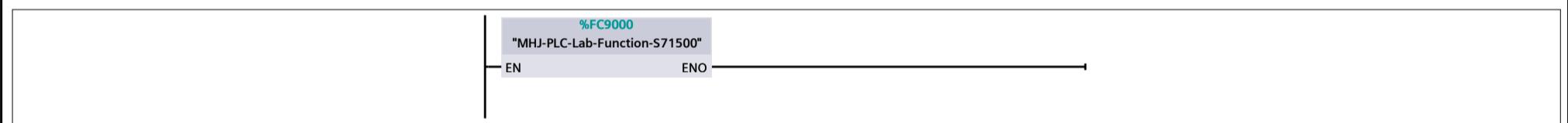
## Color Sorter Project / PLC\_1 [CPU 1511-1 PN] / Program blocks

### 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							

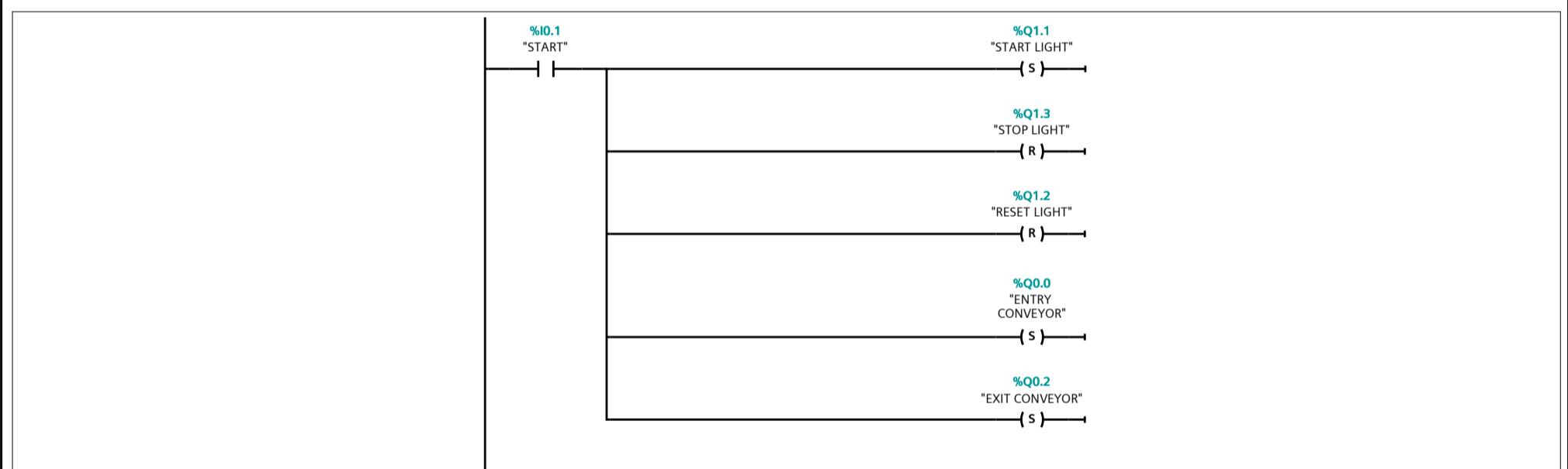
### Network 1: PLC & FACTORY IO

Connects Tia Portal with Factory IO



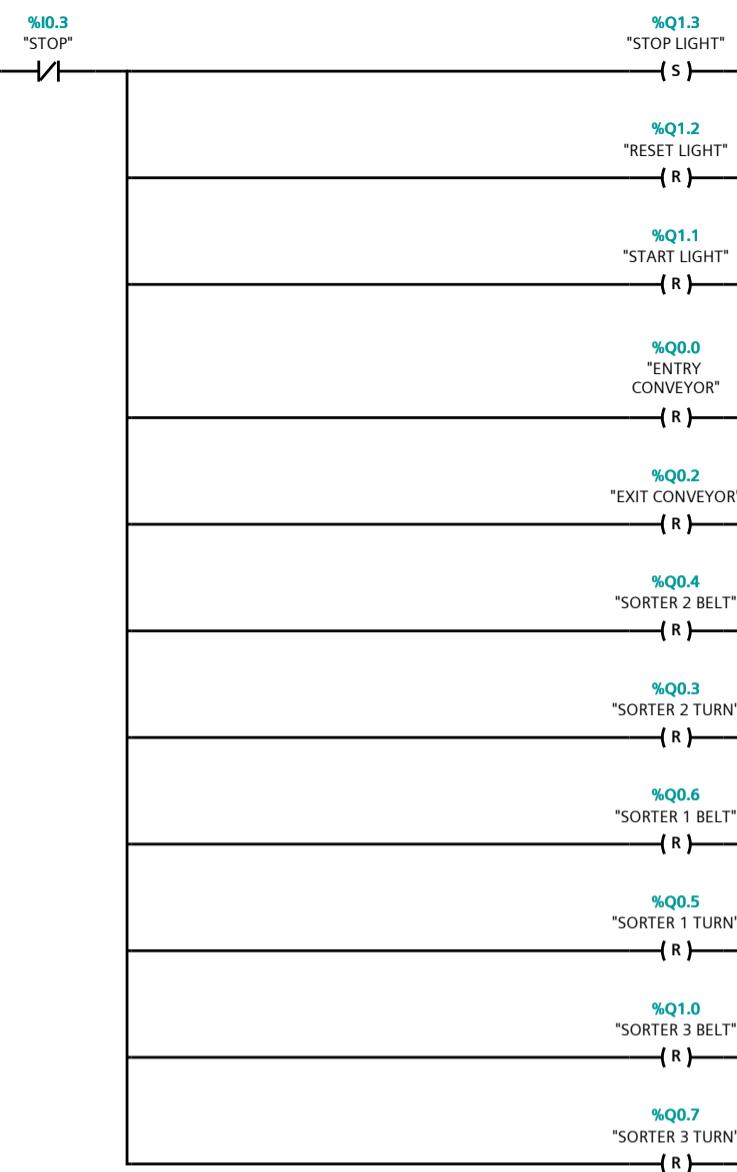
### Network 2: START

Setting up the start button

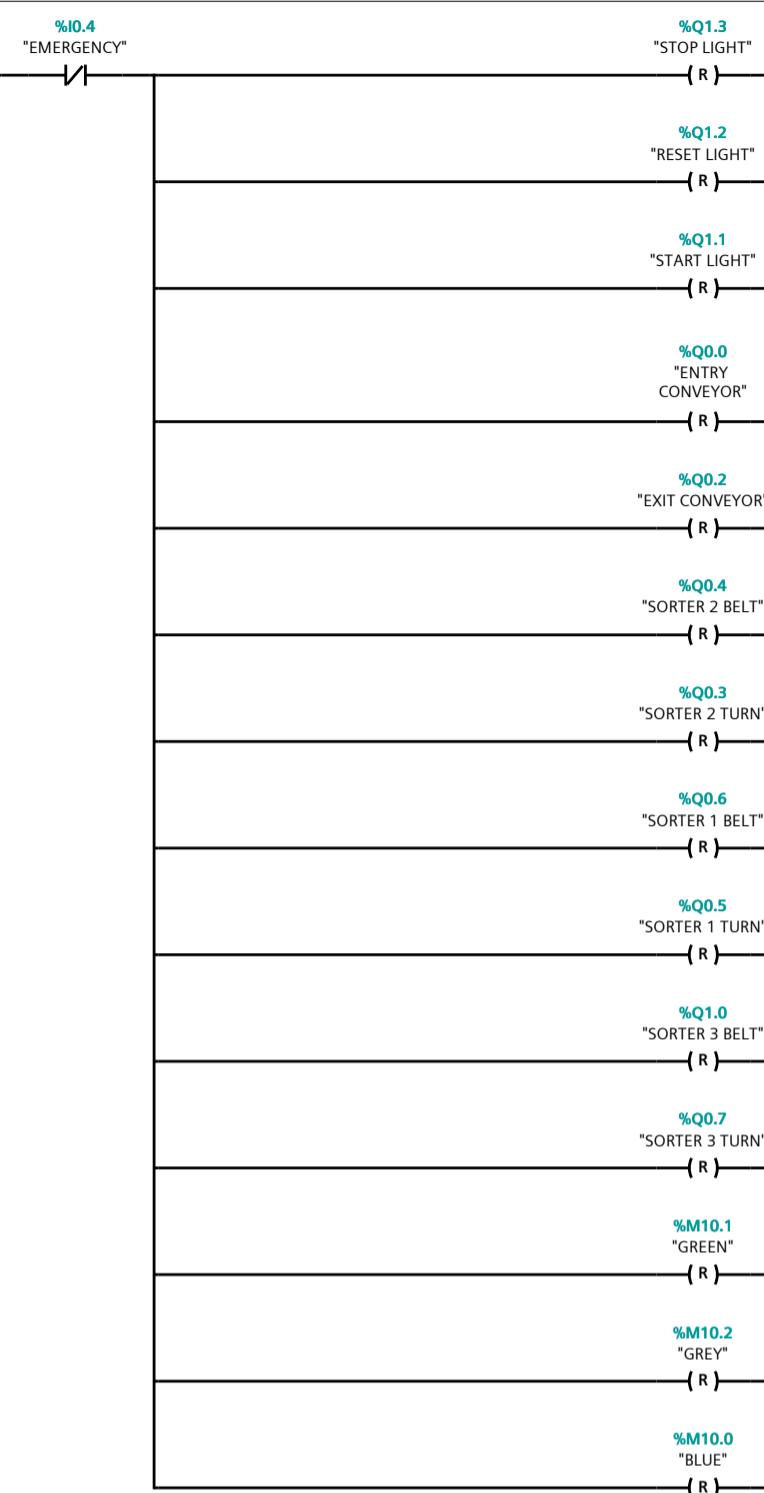


### Network 3: STOP

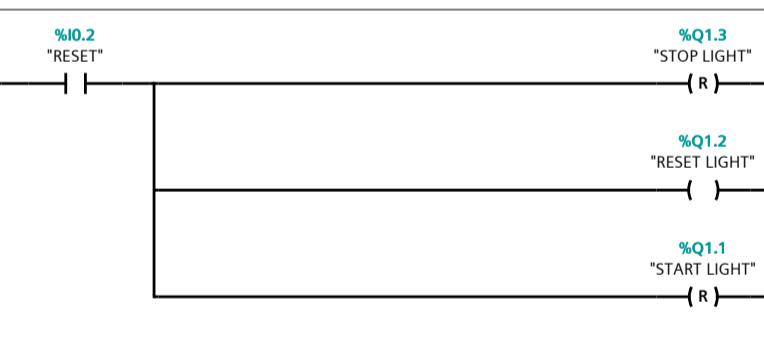
Setting up stop button

**Network 4: EMEGENCY BTN**

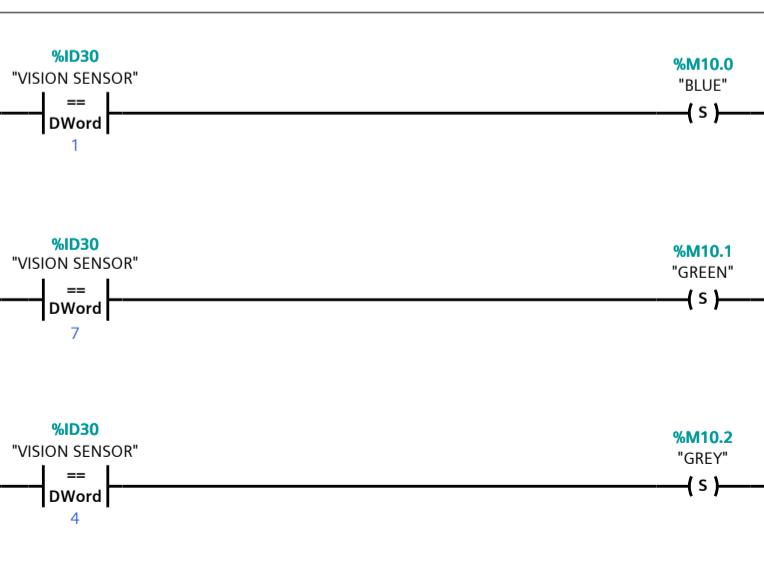
Setting up emergency button

**Network 5: RESET**

Setting up reset button

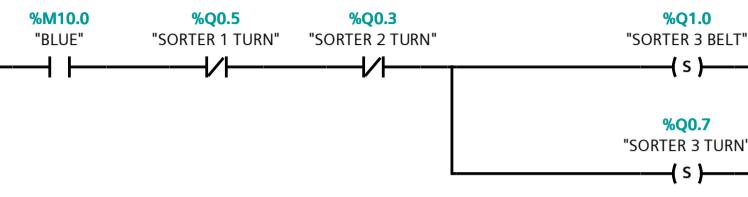
**Network 6: SET BOXES**

Setting up box colors with vision sensor



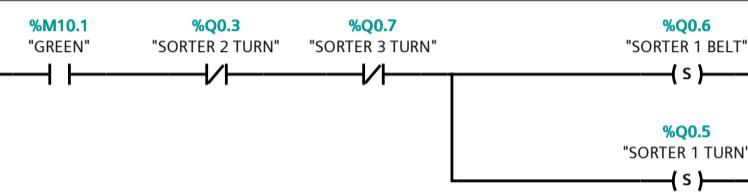
### Network 7: SET SORTER 1

Setting up Sorter 1



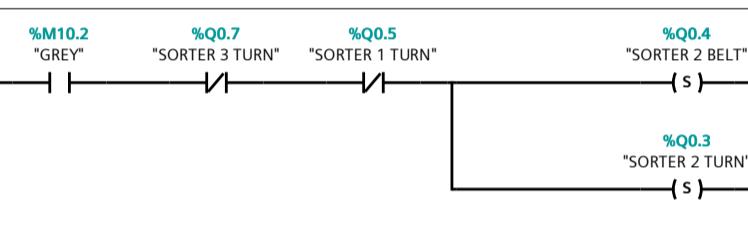
### Network 8: SET SORTER 2

Setting up Sorter 2



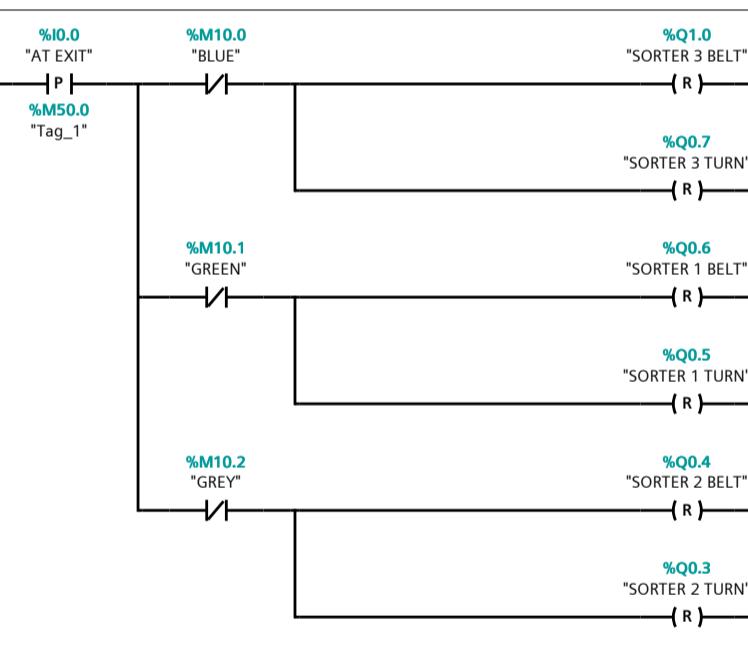
### Network 9: SET SORTER 3

Setting up Sorter 3



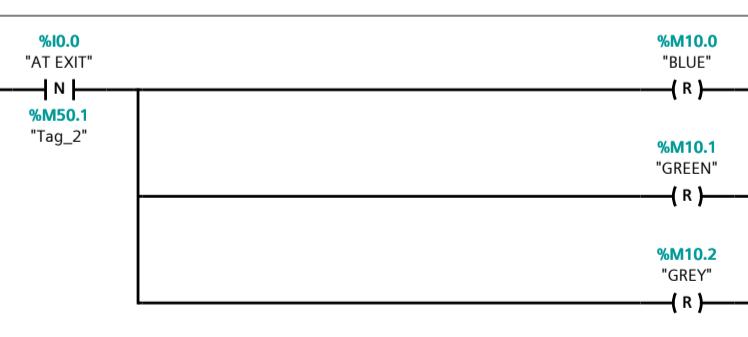
### Network 10: RESET SORTER

Resetting the Sorters



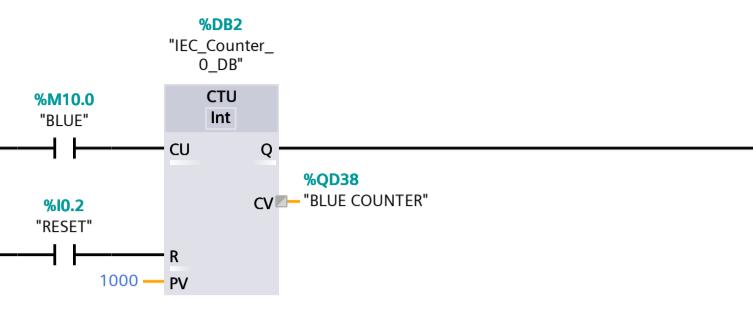
### Network 11: RESET BOXES

Resetting the boxes

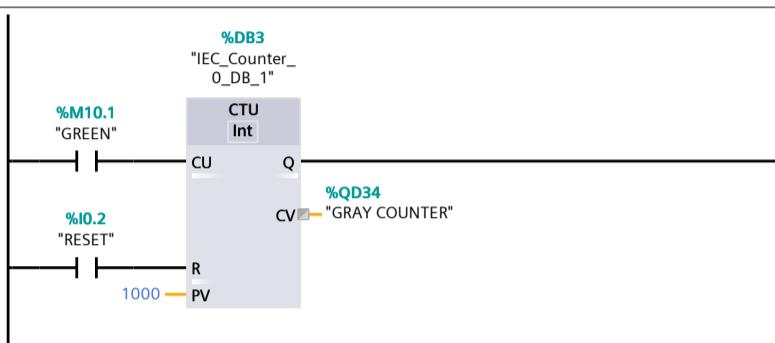


### Network 12: BOX 1 COUNTER

Counter for Blue boxes

**Network 13: BOX 2 COUNTER**

Counter for Green boxes

**Network 14: SET BOX 3**

Counter for Grey boxes

