

Vision Builder Inspection: Serial Connector Inspection

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Inspection States

State 1	Select Inspection	No inspection step.		
State 2	Inspection Setup	No inspection step.		
State 3	Inspection Cleanup	No inspection step.		
State 4	Start			
State 5	Acquire image and Locate Pins	5 inspection steps.		
	Inspection Steps	Name	Type	User Documentation
	Step 1	Acquire image	Read Image File	
	Step 2	Locate Pins 1-5	Detect Objects	
	Step 3	Locate pins 6-9	Detect Objects	
	Step 4	Check Numbers of Pins	Logic Calculator	
	Step 5	Initialize Globals	Set Variable	
State 6	End			
State 7	Inspect Pins 1-5	6 inspection steps.		
	Inspection Steps	Name	Type	User Documentation
	Step 1	Get Pin[i] Position	Array Operator	
	Step 2	Increment Counter	Set Variable	
	Step 3	Get Pin[i+1] Position	Array Operator	
	Step 4	Mesure Distance	Geometry	
	Step 5	Update Pass Fail	Set Variable	
	Step 6	Custom Overlay 1	Custom Overlay	
State 8	Reset Counter	1 inspection step.		
	Inspection Steps	Name	Type	User Documentation
	Step 1	Reset Counter	Set Variable	
State 9	Inspect Pins 5-9	7 inspection steps.		
	Inspection Steps	Name	Type	User Documentation
	Step 1	Get Pin[i] Position	Array Operator	
	Step 2	Increment Counter	Set Variable	
	Step 3	Get Pin[i+1] Position	Array Operator	
	Step 4	Measure Distance	Geometry	
	Step 5	Update Fail-Pass	Set Variable	
	Step 6	Overlay Results	Custom Overlay	
	Step 7	Logic Calculator 1	Logic Calculator	
State 10	Completed	2 inspection steps.		
	Inspection Steps	Name	Type	User Documentation
	Step 1	Set Inspection Status	Set Inspection Status	
	Step 2	Overlay Pass/Fail	Custom Overlay	

Inspection Transitions

Transition 1	Name: default	From State: Start	To State: Acquire image and Locate Pins	Priority 1
	Transition always true.			
Transition 2	Name: # Pins < 9	From State: Acquire image and Locate Pins	To State: Completed	Priority 1
	Transition active if:	Step Status is Equal to False		
Transition 3	Name: default	From State: Acquire image and Locate Pins	To State: Inspect Pins 1-5	Priority 2
	Transition always true.			
Transition 4	Name: Pins 1-5 Inspected	From State: Inspect Pins 1-5	To State: Reset Counter	Priority 1
	Transition active if:	Remaining Objects is Equal to 0		
Transition 5	Name: Detect Found	From State: Inspect Pins 1-5	To State: Completed	Priority 2
	Transition active if:	Connector Pass-Fail is Equal to False		
Transition 6	Name: default	From State: Inspect Pins 1-5	To State: Inspect Pins 1-5	Priority 3
	Transition always true.			
Transition 7	Name: default	From State: Reset Counter	To State: Inspect Pins 5-9	Priority 1
	Transition always true.			
Transition 8	Name: Pins 6-9 Inspected	From State: Inspect Pins 5-9	To State: Completed	Priority 1
	Transition active if:	is Equal to		
Transition 9	Name: default	From State: Inspect Pins 5-9	To State: Inspect Pins 5-9	Priority 2
	Transition always true.			
Transition 10	Name: default	From State: Completed	To State: End	Priority 1
	Transition always true.			