

FB101_LiftConveyor v1.0

Available Languages

Relay Ladder

FB101_LiftConveyor

FB101_LiftConveyor	? ...
iAutomaticMode	?
	??
iManualMode	?
	??
iManualOn	?
	??
iDirectionOfRotation	?
	??
iInfeed_Outfeed	?
	??
iLift_On_Position	?
	??
iPC_Conveyor_Left	?
	??
iPC_Conveyor_Right	?
	??
iStartInfeed	?
	??
iOutfeedReady	?
	??
iPuls_FP_100msec	?
	??
iNumberOfProductsOnConv	?
	??
iTimeEmpty	?
	??
oMotor_CW	?
	??
oMotor_CCW	?
	??
oConvReadyNextProduct	?
	??
oConveyorOccupied	?
	??

Function Block

FB101_LiftConveyor

<input checked="" type="checkbox"/> iAutomaticMode	<input checked="" type="checkbox"/> oMotor_CW
<input checked="" type="checkbox"/> iManualMode	<input checked="" type="checkbox"/> oMotor_CCW
<input checked="" type="checkbox"/> iManualOn	<input checked="" type="checkbox"/> oConvReadyNextProduct
<input checked="" type="checkbox"/> iDirectionOfRotation	<input checked="" type="checkbox"/> oConveyorOccupied
<input checked="" type="checkbox"/> iInfeed_Outfeed	
<input checked="" type="checkbox"/> iLift_On_Position	
<input checked="" type="checkbox"/> iPC_Conveyor_Left	
<input checked="" type="checkbox"/> iPC_Conveyor_Right	
<input checked="" type="checkbox"/> iStartInfeed	
<input checked="" type="checkbox"/> iOutfeedReady	
<input checked="" type="checkbox"/> iPuls_FP_100msec	
<input checked="" type="checkbox"/> iNumberOfProductsOnConv	
<input checked="" type="checkbox"/> iTimeEmpty	

FB101_LiftConveyor(iAutomaticMode, iManualMode, iManualOn, iDirectionOfRotation, iInfeed_Outfeed, iLift_On_Position, iPC_Conveyor_Left, iPC_Conveyor_Right, iStartInfeed, iOutfeedReady, iPuls_FP_100msec, iNumberOfProductsOnConv, iTimeEmpty, oMotor_CW, oMotor_CCW, oConvReadyNextProduct, oConveyorOccupied);

Parameters

Required	Name	Data Type	Usage	Description
X	FB101_LiftConveyor	FB101_LiftConveyor	InOut	
	EnableIn	BOOL	Input	
	EnableOut	BOOL	Output	
X	iAutomaticMode	BOOL	Input	Conveyor in automatic mode
X	iManualMode	BOOL	Input	Conveyor in manual mode
X	iManualOn	BOOL	Input	
X	iDirectionOfRotation	BOOL	Input	Direction of conveyor 0=CW (to right) 1=CCW (to the left)
X	iInfeed_Outfeed	BOOL	Input	0=infeed, 1=outfeed (For checking the photocells)
X	iLift_On_Position	BOOL	Input	Lift is on position conveyor can transport
X	iPC_Conveyor_Left	BOOL	Input	Photocell on the end of the left side of conveyor
X	iPC_Conveyor_Right	BOOL	Input	Photocell on the end of the right side of conveyor
X	iStartInfeed	BOOL	Input	Start from previous conveyor
X	iOutfeedReady	BOOL	Input	Next conveyor is ready for outfeed
X	iPuls_FP_100msec	BOOL	Input	Flank positive 100 msec pulses
X	iNumberOfProductsOnConv	INT	Input	Number of products on lift conveyor for infeed
X	iTimeEmpty	INT	Input	Time when conveyor is empty when in outfeed (can not be 0 ms)
X	oMotor_CW	BOOL	Output	Conveyor will transport products to the right side
X	oMotor_CCW	BOOL	Output	Conveyor will transport products to the left side
X	oConvReadyNextProduct	BOOL	Output	Conveyor ready for next product
X	oConveyorOccupied	BOOL	Output	Product present on conveyor

Extended Description

Execution

Condition Description

EnableIn is true

Revision v1.0 Notes

Prorunner_MK1:FB101_LiftConveyor

10/06/2014 12:07:41

Data Type Size: 28 byte (s)

...len_Bradley_RSLogix5000\Qimarox_ProrunnerMK1_140610.ACD

Data Context: FB101_LiftConveyor <definition>

Name	Default	Data Type	Scope
iAutomaticMode Conveyor in automatic mode Usage: Required: Visible: <i>iAutomaticMode - FB101_LiftConveyor/Logic - 1(XIC), 10(XIC), 16(XIC), 17(XIC), 18(XIC), 4(XIC), 6(XIC), 9(XIC)</i>	0	BOOL	FB101_LiftConveyor
iDirectionOfRotation Direction of conveyor 0=CW (to right) 1=CCW (to the left) Usage: Required: Visible: <i>iDirectionOfRotation - FB101_LiftConveyor/Logic - 1(XIO), 10(XIC), 10(XIO), 16(XIO), 17(XIC), 18(XIO), 4(XIO), 6(XIC), 9(XIC)</i>	0	BOOL	FB101_LiftConveyor
iInfeed_Outfeed 0=infeed, 1=outfeed (For checking the photocells) Usage: Required: Visible: <i>iInfeed_Outfeed - FB101_LiftConveyor/Logic - 1(XIO), 10(XIC), 16(XIC), 16(XIO), 17(XIC), 17(XIO), 18(XIO), 4(XIO), 6(XIO), 9(XIO)</i>	0	BOOL	FB101_LiftConveyor
iLift_On_Position Lift is on position conveyor can transport Usage: Required: Visible: <i>iLift_On_Position - FB101_LiftConveyor/Logic - 10(XIC), 16(XIC), 17(XIC), 18(XIC), 4(XIC), 9(XIC)</i>	0	BOOL	FB101_LiftConveyor
iManualMode Conveyor in manual mode Usage: Required: Visible: <i>iManualMode - FB101_LiftConveyor/Logic - 16(XIC), 17(XIC)</i>	0	BOOL	FB101_LiftConveyor
iManualOn Usage: Required: Visible: <i>iManualOn - FB101_LiftConveyor/Logic - 16(XIC), 17(XIC)</i>	0	BOOL	FB101_LiftConveyor
iNumberOfProductsOnConv Number of products on lift conveyor for infeed Usage: Required: Visible: <i>iNumberOfProductsOnConv - FB101_LiftConveyor/Logic - 4(GEQ), 4(GRT), 9(GEQ)</i>	0	INT	FB101_LiftConveyor
iOutfeedReady Next conveyor is ready for outfeed Usage: Required: Visible: <i>iOutfeedReady - FB101_LiftConveyor/Logic - 16(XIC), 17(XIC)</i>	0	BOOL	FB101_LiftConveyor
iPC_Conveyor_Left Photocell on the end of the left side of conveyor Usage: Required: Visible: <i>iPC_Conveyor_Left - FB101_LiftConveyor/Logic - 0(XIC), 10(XIO), 17(XIO)</i>	0	BOOL	FB101_LiftConveyor

iPC_Conveyor_Right (Continued)

Photocell on the end of the right side of conveyor

Usage: Input Parameter

Required: Yes

Visible: Yes

iPC_Conveyor_Right - FB101_LiftConveyor/Logic - 10(XIO), 16(XIO), 5(XIC)
iPuls_FP_100msec 0 BOOL FB101_LiftConveyor

Flank positive 100 msec pulses

Usage: Input Parameter

Required: Yes

Visible: Yes

iPuls_FP_100msec - FB101_LiftConveyor/Logic - 11(SFB4_OnDelayTimer)
iStartInfeed 0 BOOL FB101_LiftConveyor

Start from previous conveyor

Usage: Input Parameter

Required: Yes

Visible: Yes

iStartInfeed - FB101_LiftConveyor/Logic - 16(XIC), 17(XIC)
TimeEmpty 0 INT FB101_LiftConveyor

Time when conveyor is empty when in outfeed (can not be 0 ms)

Usage: Input Parameter

Required: Yes

Visible: Yes

iTimeEmpty - FB101_LiftConveyor/Logic - 11(SFB4_OnDelayTimer)
oConveyorOccupied 0 BOOL FB101_LiftConveyor

Product present on conveyor

Usage: Output Parameter

Required: Yes

Visible: Yes

*oConveyorOccupied - FB101_LiftConveyor/Logic - *13(OTU), *4(OTL), *9(OTL), 1(XIO), 16(XIC), 16(XIO), 17(XIC), 17(XIO), 18(XIO), 6(XIO)*
oConvReadyNextProduct 0 BOOL FB101_LiftConveyor

Conveyor ready for next product

Usage: Output Parameter

Required: Yes

Visible: Yes

*oConvReadyNextProduct - FB101_LiftConveyor/Logic - *18(OTE)*
oMotor_CCW 0 BOOL FB101_LiftConveyor

Conveyor will transport products to the left side

Usage: Output Parameter

Required: Yes

Visible: Yes

*oMotor_CCW - FB101_LiftConveyor/Logic - *17(OTE), 10(XIC), 6(XIC), 9(XIC)*
oMotor_CW 0 BOOL FB101_LiftConveyor

Conveyor will transport products to the right side

Usage: Output Parameter

Required: Yes

Visible: Yes

*oMotor_CW - FB101_LiftConveyor/Logic - *16(OTE), 1(XIC), 10(XIC), 4(XIC)*

Name	Default	Data Type	Scope
mBit	0	BOOL	FB101_LiftConveyor
Usage:	Local Tag		
<i>mBit - FB101_LiftConveyor/Logic - *1(OTE), *15(OTE), *6(OTE), 2(XIO), 7(XIO)</i>			
sMM_FallingEdge		FB101_sMM_FallingEdge	FB101_LiftConveyor
Memory for falling edges			
Usage:	Local Tag		
<i>sMM_FallingEdge.PC_Conveyor_Left - FB101_LiftConveyor/Logic - *0(OSF)</i>			
<i>sMM_FallingEdge.PC_Conveyor_Right - FB101_LiftConveyor/Logic - *5(OSF)</i>			
sProductsCounted	0	INT	FB101_LiftConveyor
Usage:	Local Tag		
<i>sProductsCounted - FB101_LiftConveyor/Logic - *14(MOV), *3(ADD), *8(ADD), 3(ADD), 4(GEQ), 8(ADD), 9(GEQ)</i>			
sTimeConvEmpty		SFB4_OnDelayTimer	FB101_LiftConveyor
SFB4 - SFB OnDelay Timer			
Usage:	Local Tag		
<i>sTimeConvEmpty - FB101_LiftConveyor/Logic - *11(SFB4_OnDelayTimer)</i>			
tFallingEdge		FB101_tFallingEdge	FB101_LiftConveyor
Usage:	Local Tag		
<i>tFallingEdge.PC_Conveyor_Left - FB101_LiftConveyor/Logic - *0(OSF), 1(XIC)</i>			
<i>tFallingEdge.PC_Conveyor_Right - FB101_LiftConveyor/Logic - *5(OSF), 6(XIC)</i>			
tTimerOn	0	BOOL	FB101_LiftConveyor
Usage:	Local Tag		
<i>tTimerOn - FB101_LiftConveyor/Logic - *10(OTE), 11(SFB4_OnDelayTimer)</i>			
tTimerPast	0	BOOL	FB101_LiftConveyor
Usage:	Local Tag		
<i>tTimerPast - FB101_LiftConveyor/Logic - *11(SFB4_OnDelayTimer), 12(XIO)</i>			











