

Product(s): SigmaLogic, LogicWorks

Doc. No. AN.SigmaLogic.01

1. Application Overview

SigmaLogic is an EtherNet/IP Indexer that was designed to work seamlessly with the CompactLogix and ControlLogix PLCs from Allen Bradley. Yaskawa has created Add-On Instructions (AOI) for easy import into the RSLogix programming environment. The AOIs as well as other documentation and videos can be found at <u>www.yaskawa.com/sigmalogic</u>.This application note highlights some key elements of the

"EC.SigmaLogic.01_RSLogix_Example.ACD" code that is included in the SigmaLogic AOI zip file. This example code was created in RSLogix 5000 v20 to provide useful examples for RSLogix programmers. The code contains interlocking logic to help prevent alarms and faults from occurring when executing the AOIs.



Figure	1: Rec	quired	Com	ponents

Component	Product and Model Number
EIP Servo Indexer	SGDV-****E1A*****B00 (SigmaLogic) or SGDV-****E*A*****300 (MP2600)
Motor	Any Sigma-II, Sigma-III or Sigma-5 motor recognized by Sigma-5 amplifiers
PLC	CompactLogix, ControlLogix or SoftLogix with an EtherNet/IP Communications Adapter
Software	RSLogix v20 was used to create this code; v17 or higher works with SigmaLogic

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2. Application Solution and Benefits

The example code uses each AOI provided by Yaskawa and shows a suggested way to use these AOIs in the context of an RSLogix ladder program. There are only a couple of basic rules when using the AOIs. The first rule is that each SigmaLogic used needs to have its own MCFG AOI. This defines the Axis structures and provides a huge amount of diagnostic information. The other rule is that most motion-related AOIs cannot be executed if another AOI is already in progress. The interlocking logic used in this example will prevent the user from violating this rule which would generate a FLT_RDY error in the AOI. The benefit to the RSLogix programmer is that this example code will help them avoid frustrating errors and alarms.

3. Initial Configuration

This application note assumes that the SigmaLogic has already been configured with LogicWorks and has been added to the RSLogix project. Yaskawa has produced several QuickStart videos available on Yaskawa's website and on YouTube. These QuickStart videos walk the user through setting up the SigmaLogic amplifier via LogicWorks, adding SigmaLogic to RSLogix and importing and using some of the popular AOIs. When searching these videos on Yaskawa's website, type "eLV.SigmaLogic" into the site search window. This will produce three QuickStart videos and any other eLearning Videos that Yaskawa has produced for SigmaLogic. The following link should bring up the search results:

https://www.yaskawa.com/pycsearch?keywords=eLV.SigmaLogic*&selCollection=Entire%2 0Site

These same videos are also published to Yaskawa's YouTube channel. Typing "SigmaLogic" into a YouTube search will bring up several results including a playlist of training videos. The following link should bring up the SigmaLogic training section:

https://www.youtube.com/watch?v=pkm3wVTe2-U&list=PLNAENIyEDCkwyKty6WKoekdBmELwBniQ9

From the RSLogix point of view, SigmaLogic is added as a Generic Ethernet Module with the following settings:

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🗆 Module Pro	perties Report: SoftLog	gixEIP (ETH	HERNET-MOD	JLE 1.1)		
General Con	nection Module Info					
Type: Vendor: Parent:	ETHERNET-MODULE Gene Allen-Bradley SoftLogixEIP	ric Ethernet №	4odule			
Name: Description:	SigmaLogic_Axis1		Connection Para	meters Assembly Instance:	Size:	
		~	Input:	102	64	
Comm Format	Data - DINT		Output:	112	64	
Address / H			Configuration:	1	1	(8-bit)
 IP Addre 	ss: 192 . 168 . 1 .	1	Status Input:			
🔿 Host Na	me:		Status Output:			
L						
Status: Offline		ОК	Cancel	Apply		Help
Module Properties Report: SoftLogixEIP (ETHERNET-MODULE 1.1) General Connection Module Info						
Requested Packet Interval (RPI): [12.0 💮 ms (1.0 - 3200.0 ms)						
📃 Major Fault	On Controller If Connection Fa	ails While in F	lun Mode			
✓ Use Unicast Connection over EtherNet/IP						
Module Fault						
tatus: Offline		ОК	Cancel	Apply		lelp

All Add-On Instructions for RSLogix 5000 can be downloaded from Yaskawa's website at:

www.yaskawa.com/sigmalogic

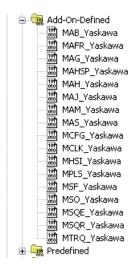


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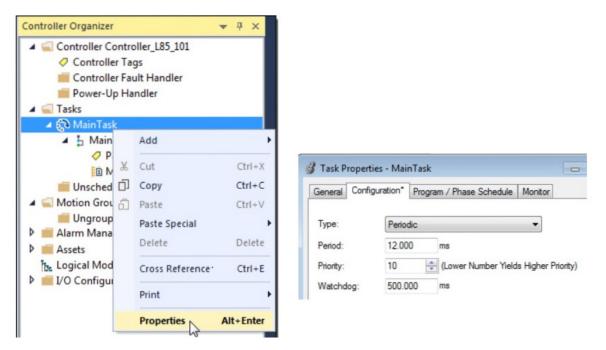
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This will be a zip file containing all available AOIs and example code. QuickStart video #2 (Connection) guides the user through importing the AOIs into RSLogix. Once imported, they will show up in the Add-On-Defined Folder in the Controller Organizer.



It is recommended to run the AOI's in a Periodic Task that is a multiple of 12ms so that it matches the RPI of EIP communications.

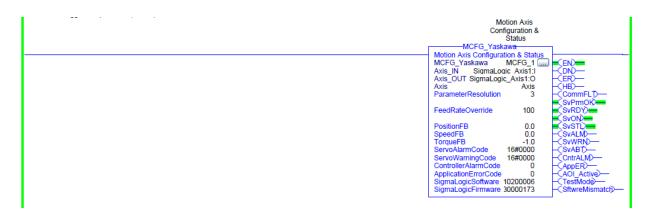


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4. MCFG_Yaskawa (Configuration & Status)



MCFG_Yaskawa must be included in the RSLogix program in order to use SigmaLogic and should be always be enabled. The Axis_IN and Axis_OUT parameters link the AOI to the physical generic Ethernet module that was configured. The Axis parameter creates a User-Defined DataType called Yaskawa_EIP_Servo. The Axis structure is then used in all subsequent AOIs. For more information regarding the information available in the Axis structure, please refer to Appendix A&B in this document. There is a wealth of useful information that exists in this structure and is updated automatically as long as the MCFG_Yaskawa AOI is enabled.



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5. Interlocks

******	***************
Sample Interlocking Logic checking for valid Ethernet Connection, Alarms, Servo Ready Status, Servo Enable Status Also checks to see if an AOI is already in use as several motion blocks will not execute if another AOI is already in progress	
Configuration & Cor	lotion Axis Ifiguration & Test Mode set
Configuration & parameters have been Motion Axis by C	Configuration
	C control is blocked
	G_1.TestMode Axis_OK
Motion Axis Configuration &	
Status Servo On Axis OK MCFG 1.5VON	Axis Ready
Motion Axis	
Configuration & Status An Axis AOI is Active	
Axis Ready MCFG_1_ACI_Active	Axis_ReadyForMotion

This section of logic was written to provide three Boolean variables for use further down in the code. Axis_OK will be TRUE if the SigmaLogic axis has good communication, the amplifier has power and no alarms. Axis_Ready further checks the servo enable status and will be TRUE when the servo motor is enabled. Axis_ReadyForMotion takes it one step further and makes sure that no AOI is already in progress. Most of the motion-related AOIs cannot be executed if another AOI is active so Axis_ReadyForMotion is used often to ensure that the conditions are acceptable to enable a new AOI.



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6. SigmaLogic Input/Output Status



This part of the code is completely optional but can provide a good way to customize the descriptions of any Inputs or Outputs used with SigmaLogic. The status of all of the Digital Input and Output points available on the SigmaLogic controller (CN13) and the amplifier (CN1) are stored in Axis.I.IOStatusBits. This rung simply copies this status into a DINT variable called IOStatusBits. The description for each bit of IOStatusBits can now be customized for display in ladder.

-IOStatusBits	DINT		Read/Write	Decimal
-IOStatusBits.0	BOOL	CN13 Input 0 (DI0)	Read/Write	Decimal
-IOStatusBits.1	BOOL	CN13 Input 1 (DI1)	Read/Write	Decimal
-IOStatusBits.2	BOOL	CN13 Input 2 (DI2)	Read/Write	Decimal
-IOStatusBits.3	BOOL	CN13 Input 3 (DI3)	Read/Write	Decimal
-IOStatusBits.4	BOOL	CN13 Input 4 (DI4)	Read/Write	Decimal
-IOStatusBits.5	BOOL	CN13 Input 5 (DI5)	Read/Write	Decimal
				- · ·

е	Yaskawa SigmaLogic		Yaskawa SigmaLogic		
е	Axis Structure		Axis Structure		
e	Digital IO Status.		Digital IO Status.		
e	Bits 0-7, CN13		Bits 0-7, CN13		
e	Inputs 0-7, Used as		Inputs 0-7, Used as		
e	Flag 65-72.		Flag 65-72.		
e	Bits 8-15, CN13		Bits 8-15, CN13		
e	Outputs 0-7, Used as		Outputs 0-7, Used as		
е	Flag 73-80.		Flag 73-80.		
е	Bits 16-22, CN1		Bits 16-22, CN1		
е	Inputs 0-6, Used as		Inputs 0-6, Used as		
е	Flag 81-87.		Flag 81-87.		
е	Bits 23-25, CN1		Bits 23-25, CN1		
е	Outputs 0-2, Used as		Outputs 0-2, Used as		
е	Flag 88-90.	CN13 Input 0 (DI0)	Flag 88-90.	CN1 Input 0 (SI0)	
е	Axis.I.IOStatusBits.0	IOStatusBits.0	Axis.I.IOStatusBits.16	IOStatusBits.16	
е			/	/	
e					

The picture above shows the differences in descriptions between Axis.I.IOStatus and IOStatus bits even though they display the same status.



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7. MAFR_Yaskawa (Fault Reset), MSO_Yaskawa (Servo On), MSF_Yaskawa (Servo Off), MAS_Yaskawa (Stop)

Section to Reset Faults, Enable/Disable Servo FaultResetReq	Motion Axis Fault Reset MAFR_Yaskawa Motion Axis Fault Reset
Axis_OK ons_2	MAFR_Yaskawa MAFR_1 <en Axis Axis -<dn -<flt_bsy< td=""></flt_bsy<></dn </en
ServoOnReq	Motion Servo On MSO_Yaskawa Motion Servo On
CN13 Input 0 (DI0) IOStatusBits.0 ons_4	MSO_Yaskawa MSO_1 CEN Axis Axis CDN FLT_RDV FLT_BSV
ServoOffReq	Motion Servo Off MSF_Yaskawa Motion Servo Off
CN13 Input 0 (DI0) IOStatusBits.0 ons_5	MSF_Yaskawa MSF_1 (EN) Axis Axis (DN) (FLT_BSY)
MAS Stop Block to Stop Motion Regardless of the Current State of the Axis	Motion Axis Stop
StopReq	MAS_Yaskawa Motion Axis Stop
CN13 Input 6 (DI6) IOStatusBits.6	MAS_Yaskawa MAS_1 CEN Axis Axis Deceleration 50

The Fault Reset (MAFR_Yaskawa), Servo On (MSO_Yaskawa), Servo Off (MSF_Yaskawa) and Stop (MAS_Yaskawa) AOIs are pretty straightforward and do not require much in the way of interlocking. The Stop and Fault Reset can all be executed even if other AOIs are in progress.



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8. MAH_Yaskawa (Homing)

AH Motion Axis Home Block Section			*****
nsult help file for all the available homing m me Type 3 has been selected here earch in Pos Direction, Seach for SI3 (Flag		e Neg direction, Perform an Offset Move in the Neg direction and Define Position)	
HomeSearchStart ons_8	Axis_ReadyForMotion		HomeSearchReq
CN1 Input 2 (SI2) IOStatusBits.18	L		
Motion Axis Home Homing Process is Complete HomeSearchReq MAH 1.PC	CN13 Input 6 (DI6) StopReg IOStatusBits.6		
HomeSearchReq		Motion Axis Hom MAH_Yaskawa Motion Axis Home	e
		MAH_Yaskawa MAH_1 [Axis Axis HomeType 3	
		Direction 0	-(IP)
		Use_CPulse 1	-(ER)
		SetPosition 0	-(PC)
		Speed 2	-(FLT_RDY)-
		Accel_Decel 20	-(FLT_BSY)-
		TorqueLimit 100	
		FlagNo 84	
		OffsetDistance 0.42	
		OffsetSpeed 1	
		BackoffDistance 0	
		CreepSpeed 0.25	
		Axis FaultCode 0	

To start the homing search, the code is looking for the rising edge of either the HomeSearchStart bit or Input SI2 from the amplifier I/O. As long as Axis_ReadyForMotion is also true, the HomeSearchReq bit will be latched in. It will hold the enable on to the MAH AOI. This will stay latched until the home search is complete (PC) or a stop has been issued. This type of latched enable signal is used for most of the motion AOIs.

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The MAH_Yaskawa AOI has many different options and configurations which define the type of home search being performed. The following table explains the different AOI inputs and resulting home search routines:

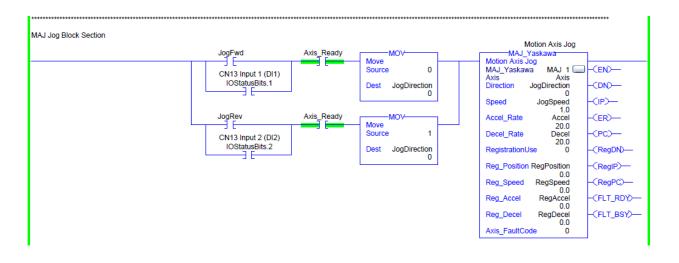
AOI Inputs			
HomeType	Direction	Use_Cpulse	Description
0	N/A	N/A	Set Position Directly
1	0	N/A	Home in Positive Direction to Hard Stop
1	1	N/A	Home in Negative Direction to Hard Stop
2	0	0	Home in Positive Direction to Limit Switch
2	1	0	Home in Negative Direction to Limit Switch
2	0	1	Home in Positive Direction to Limit Switch with C-Pulse
2	1	1	Home in Negative Direction to Limit Switch with C-Pulse
3	0	0	Home in Positive Direction to Flag
3	1	0	Home in Negative Direction to Flag
3	0	1	Home in Positive Direction to Flag with C-Pulse
3	1	1	Home in Negative Direction to Flag with C-Pulse

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9. MAJ_Yaskawa (Jog, Jog w/ Registration)



The MAJ AOI jogs the motor forward or reverse depending on the Direction input. As long as the enable is active, the motor will be jogging. When the enable turns off, the motor decelerates at the Decel_Rate to a stop. If RegistrationUse is set to true, then the jog move will be interrupted and SigmaLogic performs a relative move when the registration latch input (Amplifier Input SI4) is activated. After a successful registration move has been completed, the enable must by cycled to start jogging once again. If the registration latch input is not activated, the motor will continue to jog.

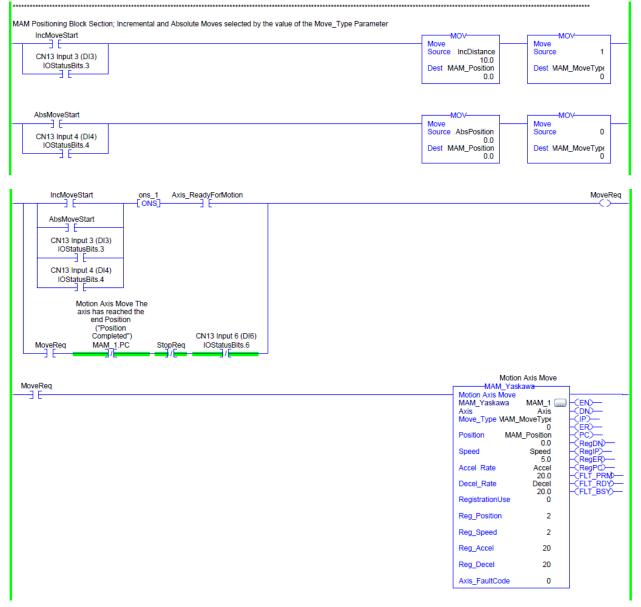
APPLICATION NOTE YASKAWA

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10. MAM_Yaskawa (Move)



The MAM AOI performs either an incremental index move or a move to an absolute position. The Move_Type input dictates which type of move is commanded. From the code above, the Position and Move_Type inputs are loaded based on whether an incremental or absolute move is commanded. If Axis_ReadyForMotion is true, a rising edge of either

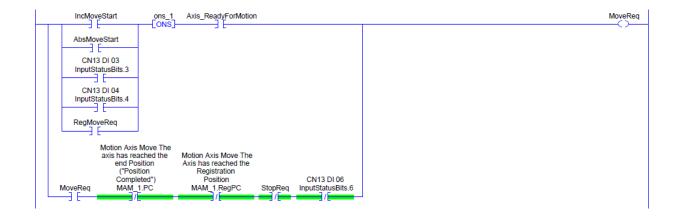


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IncMoveStart, AbsMoveStart, Input 3 or Input 4 will latch in the MoveReq bit. This bit hold on the enable for the MAM AOI until the move is complete (PC) or a stop has been issued.

If RegistrationUse is set to true, then the move will be interrupted and SigmaLogic performs a relative move when the registration latch input (Amplifier Input SI4) is activated. If a registration move is triggered, then the RegIP output will be true and the RegPC output will be true once the registration move has completed. To use the same latching logic for the MAM enable when registration is used, the RegPC signal should also be added to logic as shown below.



If the registration latch input is not activated, the motor will complete the original incremental or absolute index move and the PC output will turn on.

MAM Type	Direction	Description
0	N/A	Linear Absolute
1	Positive / Negative (-)	Incremental Relative
2	Shortest Path	Rotary Absolute
3	Positive	Rotary Absolute
4	Negative	Rotary Absolute

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11. MHSI_Yaskawa (High Speed Index)

The MHSI AOI is used primarily when the delays of the Ethernet/IP communication cycle could impact the desired performance. The MHSI function reacts to a physical input to start the move instead of a command over EIP which represents the fastest way to trigger motion. Additionally, if the profile is a repeating profile with a move and a dwell, the MSHI AOI would give the user the fastest response and save programming effort creating logic with MAM, TON and counters.

MHSI Motion High Speed Index Block Section Move Mode = 0 (Relative Move based on Distance input) Move Type = 0 (Single Move instead of repeating moves) CalcMethod = 0 (Use Accel/Decel) Trigger Flag = Flag 86 (CN 1 SI 5) Axis.IHSI_Moving and Axis.IHSI_Done bits are linked to CN 13 DO 6 and DO 7 just to show how the moving and done status can be ac The advantage to this type of move over the traditional MAM block is response time.	cessed and used. Motion Axis High
	Speed Index
HSI_Enable Axis_ReadyForMotion	MHSI_Yaskawa
	Motion Axis High Speed Index MHSI_Yaskawa MHSI_1 + EN)
CN1 Input 4 (SI4) Motion Axis High	Axis Axis
IOStatusBits.20 Speed Index AOI is Active	MoveMode 0 -CDN)
MHSI_1.EN Axis_Ready	MoveType HSI_MoveType -(IP)
	RepeatNumber NumRepeats
	CalcMethod 0 -< MV)
	Distance IncDistance (DW)
	Speed Speed
	Accel Accel (FLT_BSY)-
	MoveTime 0
	DwellTime HSI_DwellTime 500
	Direction 0
	TriggerFlagAssign 86
	MovingFlagAssign 58
	DwellingFlagAssign 59
	DoneFlagAssign 60
	Axis_FaultCode 0
Yaskawa SigmaLogic Axis Structure	

The code above uses a signal (HSI_Enable or SI4) to enable the MHSI AOI. Using MHSI is a two-step process. It must be enabled for the trigger flag to start the index. There are many ways to adjust the move performed based on the inputs MoveMode, MoveType and CalcMethod.

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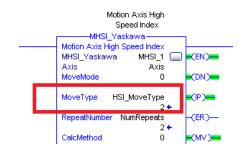
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The embedded help file for the MHSI_Yaskawa AOI describes these parameters in detail. The example shown on the previous page performs a relative move of 10 revs when the rising edge of the trigger flag (86 or CN1 SI5) is activated. The trigger flag can be assigned to any other physical Input signal from CN1 or CN13 by modifying the flag number.

If the MHSI parameter MoveType changes to a value of 2, then the trigger flag would start a repeating move for two cycles. A relative move of 10 revs followed by a dwell of 500ms would be repeated twice. For any repeating moves to run, the trigger flag must stay ON. If the trigger flag pulses, then the MHSI will perform one move and one dwell before finishing.



There are also two additional rungs used with this MHSI AOI example. These show how a programmer might choose to use the AOI status that is updated automatically and stored in the Axis structure. Each AOI has similar status information in the Axis structure. The code below turns on Output 6 when the MHSI index is in progress and turns ON Output 7 when the MHSI index is complete.

Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaskawa SigmaLogic controller. Axis.I.HSI_Moving	 CN13 Output 6 (DO6) OutputCommandBits.6
Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaskawa SigmaLogic controller. Axis.I.HSI_Done	CN13 Output 7 (DO7) OutputCommandBits.7



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12. MAB_Yaskawa (Motion Axis Blend)

*****	******	*****	******
MAB Blended Move Block Section Note: All positions are absolute After execution is started, the move is commanded to Blend1_Position using the Blend1 Accel, Decel and Speed After reaching Blend1_Position, the axis will continue on to Blend2_Position at the Blend2 Accel, Decel and Speed without stopping			
BlendMoveStart ons_7 Axis_ReadyForMotion			BlendMoveReq
CN1 Input 1 (SI1) IOStatusBits.17			()
Motion Axis Blend Indication that 2nd			
section is completed CN13 Input 6 (DI6)			
BlendMoveReq MAB_1.B2_DN StopReq IOStatusBits.6			
		Axis Blend	
BlendMoveReq	MAB_Yaska Motion Axis Blend	awa	L
J L	MAB_Yaskawa	MAB_1 📖	-(EN)
	Axis Blend1_Accel	Axis Accel	
	_	20.0	
	Blend1_Decel	Decel 20.0	(B1_IP)
	Blend1_Speed	Speed1	- <b2_dn)< td=""></b2_dn)<>
	Blend1_Position	5.0 Position1 5.0	-(B2_IP)
	Blend2_Accel	Accel 20.0	-(ER)
	Blend2 Decel	Decel 20.0	-(FLT_RDY)
	Blend2_Speed	Speed2 2.0	- <flt_bsy)< td=""></flt_bsy)<>
	Blend2_Position	Position2 20.0	
	MoveBlend1ErrorCode	e 0	
	MoveBlend2ErrorCod	e O	

The MAB_Yaskawa AOI performs a two-stage absolute index. This is typically used when a move profile requires different speeds at the beginning and the end of the move. The position inputs to the AOI are absolute positions so the motor position when the MAB AOI is enabled will dictate motor direction.



The picture above shows a sample move profile where the motor moves to Position1 at Speed1 and then decelerates down to Speed2 to finish moving to the final end position (Position2).



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13. MAG_Yaskawa (Electronic Gearing)

For the MAG_Yaskawa AOI to work properly, the external encoder must be set up first with LogicWorks. To avoid any errors in the MAG AOI, make sure that the "Enable External Encoder as a Gearing Master" is checked. Below is an example setup:

Ethernet Settings	Units	Options	External Encoder	Reboot	Update
EXTERNAL ENCOD	ER SETTINGS				Wiring Diagram
Enable External Encoder	as a Gearing Master				
En	coder Resolution	10000 lines/rev 🔒			
Encoder F	orward Direction	CCW 👻 viewing motor shaft 🚺			
Encoder	r Pulse Train Type ABQuar	drature 🔻 🚺			
Load Type: ◎Linear Unit:	• (Finite) © Rotary (Infin Revolutions •	ite)	-	ENCO	DER
External Encode Load Shaft Revs: Encoder Revs:	r Transmission 0	LOA	transmission	External Encoder L	.oad i 1 rev/rev

It is also recommended to check the feedback and scaling by going to the Monitor -> Status and I/O section.

4	Configure	o �•ॻ Sequence ¤•o		Test Run	└── Monitor
	SI	tatus and I/O		Sequenc	e Monitor
	SI0 [Flag 81]	SO1 [Flag 88]	0	 DI_00 [Flag 65] DI_01 [Flag 66] 	O_DO_00 [Flag 73] O_DO_01 [Flag 74]

In the bottom left corner, it is possible to see the current external encoder position

Con	nmanded Pos:	50.000	rev
	Actual Pos:	50.000	rev
	Ext Enc Pos:	0.02	rev

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GearReq Axis Ready MdG_Yaskawa MdG_Yaskawa MAG_Yaskawa MAG_1 CEN— Axis MAG_Yaskawa MAG_1 Direction GearDirection ON— 0 0 0 Slave_Counts Numerator (IP)— 1 Master_Counts CSDN— 1 Accel_Rate Accel 20.0 SuperUse SuperUse SuperSpeed 0 SuperSpeed SuperSpeed (FLT_RDY)— 0 SuperOccel Decel 20.0 SuperDistance Offset 0 SuperOccel	MAG Electronic Gearing Section When enabled, the motor follows the external encoder input at a ratio of Slave_Counts/Master_Counts Superimposed Move allows the user to add a move on top of the gearing operation; This is enabled whenever SuperUse is set to 1. Superimposed Move parameters can be updated even when gearing is enabled. The AOI looks at these parameters on the rising edge o		****
Motion Axis Gear CEND— CN1 Input 3 (SI3) IOStatusBits.19 IOStatusBits.19 Slave_Counts Numerator CERD— 1 Accel_Rate Accel 20.0 SuperSpeed SuperSpeed SuperSpeed SuperSpeed SuperSpeed 20.0 SuperAccel Accel 20.0 SuperDecel Decel	GoarRea Avis Boady		
CN1 Input 3 (SI3) IOStatusBits.19 MAG_Yaskawa MAG_1 CENC— Axis Axis COND— Direction COND— Slave_Counts Numerator (IP)— Master_Counts Dominator CER— 1 Master_Counts Denominator CER— 1 Accel_Rate Accel CSDN— 0 Decel Rate Decel 2.00 CSIP)— 2.00 SuperSpeed CELT_RDY)— 1 SuperSpeed SuperSpeed SuperSpeed CELT_RDY)— 2.00 SuperAccel Accel 2.00 2 SuperAccel Accel 2.00 SuperAccel Accel 2.00			
Axis Axis IOStatusBits.19 Axis Axis Direction GearDirection Slave_Counts Numerator CIP)			
Image: Control of Contro of Contro of Contro of Control of Control of Control of Control o		Axis Axis	
1 1 Master_Counts Denominator - 1 Accel_Rate Accel 20.0 20.0 Decel Rate Decel 20.0 SuperUse - SuperStart SuperSpeed SuperSpeed 5.0 SuperAccel Accel 20.0 SuperDecel Decel	IOStatusBits.19		-(DN)
Accel_Rate Accel - (SDN)- Accel_Rate Accel 20.0 - (SIP)- Decel Rate Decel - (SIP)- - SuperUse SuperUse - (SER)- - SuperStart SuperSpeed SuperSpeed - (FLT_RDY)- SuperAccel Accel - - (FLT_BSY)- SuperDecel Decel 20.0 - -		Slave_Counts Numerator	-(IP)
20.0		Master_Counts Denominator	-(ER)
20.0 SuperUse SuperUse -(SER)			-(SDN)
SuperStart SuperStart SuperStart SuperStart SuperStart			-(SIP)—
SuperSpeed SuperSpeed SuperSpeed - SuperAccel 5.0 SuperAccel Accel 20.0 Decel 20.0		SuperUse SuperUse	-(ser)—
SuperSpeed SuperSpeed			-(FLT_RDY)-
SuperAccel Accel 20.0 SuperDecel Decel 20.0		SuperSpeed SuperSpeed	-(FLT_BSY)
SuperDecel Decel 20.0		SuperAccel Accel	
		SuperDecel Decel	
2.0		SuperDistance Offset	

When the MAG_Yaskawa AOI is enabled, the SigmaLogic axis follows the external encoder wired into CN13. While the encoder resolution and scaling is part of the LogicWorks setup shown on the previous page, the gearing ratio is adjustable from RSLogix via the Slave_Counts and Master_Counts inputs. MAG also allows for a superimposed move to be commanded on top of the gearing relationship. This is typically used for phase shifting, registration corrections or other offsets. When the enable to MAG is turned off, the motor will decelerate at the Decel_Rate to a stop.



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14. MSQR & MSQE (Sequence Run and Edit)

The MSQR_Yaskawa and MSQE_Yaskawa AOIs are used to execute and modify preprogrammed sequences in SigmaLogic. Those sequences must be created initially in LogicWorks. The picture below shows a simple two-step sequence:

SU	MMA	RY	,													l		K Fl	ag Refere	nce	
Step	Before T	he M	ove				Tł	ne Mov	/e							After The	e Mo	ve			
	Wait	S	et							Registrati	on Data	W	/ait	S	iet	Time Delay	Bra	anch	W	/ait	
	Flag State					Accel.	Decel.	Speed	Direction	Reg. Distance	Reg. Speed	Flag	State		State	Milliseconds		State	True Jump	False Jump	
1		64	Off	Relative	10	20	20	2								1000			END	2	
2				Absolute	0	20	20	2						64	On				END	END	=

When the sequence is started on Step 1, the motor will go 10 revs in the positive direction, wait 1000ms and then return to the zero position. In this example, Flag 64 acts as a sequence complete bit since there is no other bit that would indicate that the sequence has finished. There are 64 user-defined flags for this type of handshaking and Flag 64 was chosen aribitrarily.

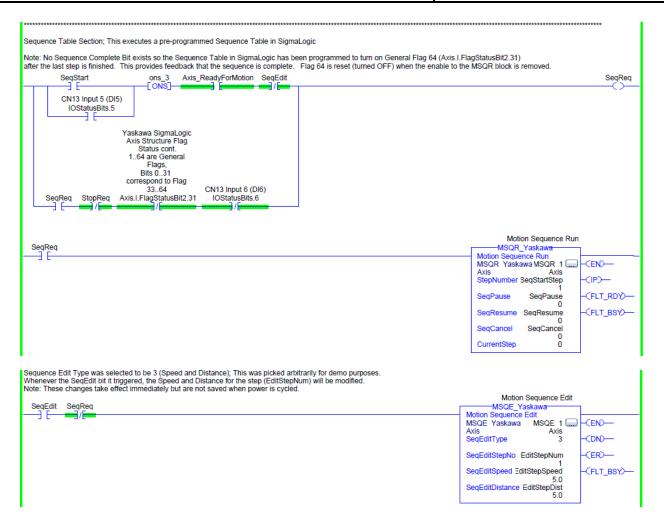
The example code on the next page shows one way to execute the sequence starting at Step 1 using the MSQR AOI. Once the rising edge of SeqStart or DI5 is detected, the SeqReq bit is latched in. This will keep the enable to MSQR on until Flag 64 (Axis.I.FlagStatusBit2.31) turns on or the move is aborted via Stop. There is an additional contact that will not allow the sequence to run if a sequence edit is in progress.

Title: SigmaLogic Example Code Example Manual

Product(s): SigmaLogic, LogicWorks

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The MSQE_Yaskawa AOI provide a way to modify the Speed and Position of an individual step in the sequence table. The code above shows that the speed for Step 1 will be changed to 5 rev/s and the position for Step 1 will be changed to 5 revs if the SeqEdit bit turns on. There is an additional contact preventing the edit from occurring if a sequence is currently running. An important note is that these edits are not retained in SigmaLogic when power is cycled. When SigmaLogic boots up, the sequence table reverts back to the values that were last sent from LogicWorks.



Title: SigmaLogic Example Code Example Manual

Product(s): SigmaLogic, LogicWorks

Doc. No. AN.SigmaLogic.01

15. MTRQ_Yaskawa (Torque Control)

The following code shows an example of using MTRQ for a demo capping application:

MTRQ Motion Axis Torque Block TorqueStart will start the motor spinning in torque mode. The torque will be clamped at the Torque setpoint (SP). If the torque has been achieved for at least 500ms, then it is considered successful.	
If the torque has not been achieved for 5 seconds, it is assumed that the torque operation has failed.	
TorqueStart ons_9 Axis_ReadyForMotion	TorqueReq
CN1 Input 6 (SI6) IOStatusBits.22	
TorqueReq TorqueSuccessful TorqueFailed	
	Motion Axis Torque
TorqueReq	Control MTRQ_Yaskawa
	Motion Axis Torque Control MTRQ_Yaskawa MTRQ_1
	Axis Axis Torque_Limit TorqueSP -(IP)
	40.0 Torque_Ramp Torque_Ramp 100.0
	Speed_Limit Speed_Limit (FLT_RDY)
	Accel_Rate Accel
	Decel_Rate Decel 20.0
	Axis_FaultCode 0
Yaskawa SigmaLogic	
Axis Structure Structure of data	
coming from the Yaskawa SigmaLogic	
controller. TorqueReg Axis.l.b61_TorqueAtTorque TONTONTON_2.DNTONTON_2.DNTONTON_2.DN	TorqueSuccessful
	()
Accum 0	
TorqueReq TorqueSuccessful TON TON TON 1.DN	ToroueFailed
Preset 5000 CDN)	
TorqueSuccessful	LastTorqueSuccess
CN1 input 6 (SI6)	()()()
LastTorqueSuccess TorqueStart IOStatusBits.22	
	LastTorqueFail
CN1 Input 6 (SI6)	<u>~</u>
LastTorqueFail TorqueStart IOStatusBits.22	

Product(s): SigmaLogic, LogicWorks

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YASKAWA

The MTRQ section of code has been written to show how the MTRQ AOI might be used in an application. The concept is that the motor starts spinning at a commanded torque setpoint. If the actual torque reaches the torque setpoint for at least 500ms, then the operation is considered successful (TorqueSuccessful). If five seconds passes without this condition being met, then the operation is considered a failure (TorqueFailed). Either signal (TorqueSuccessful, TorqueFailed) will unlatch the TorqueReq signal and the motor will decelerate to a stop.

There are many ways to use the MTRQ_Yaskawa AOI, however. The important features are that when enabled, the MTRQ AOI puts the servo in torque mode. The torque is limited by the Torque_Limit input. The speed of the motor during the torque operation will be limited by the Speed_Limit input. The actual speed and torque of the motor will vary depending on the resistance of the load but will not be allowed to exceed the torque or speed limits.

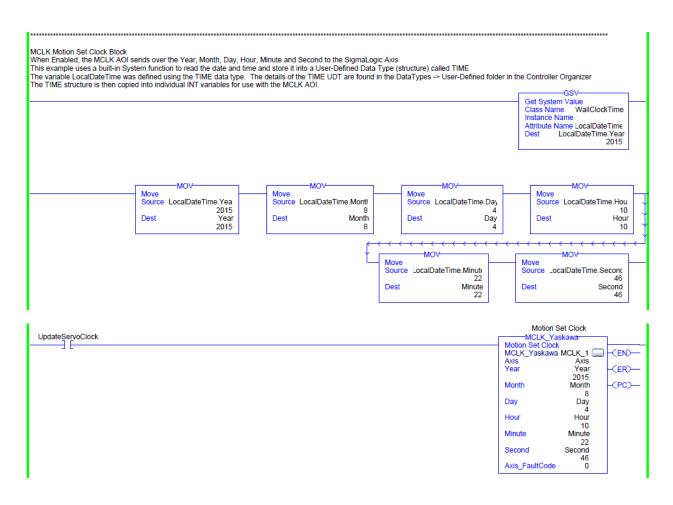
YASKAWA

Title: SigmaLogic Example Code Example Manual

Product(s): SigmaLogic, LogicWorks

Doc. No. AN.SigmaLogic.01

16. MCLK_Yaskawa (Set Clock)



The MCLK_Yaskawa AOI was created to allow the SigmaLogic to be synchronized with the PLC clock. The benefit to using this AOI is so that the Alarm History in SigmaLogic matches any time stamping in the PLC. The PLC time and date is read from a System object called WallClockTime and stored into a structure called LocalDateTime. Then the individual elements from LocalDateTime are moved into the inputs of the MCLK AOI. When MCLK is enabled, the clock in SigmaLogic is updated. No power cycle is required on SigmaLogic.

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Product(s): SigmaLogic, LogicWorks

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The structure LocalDateTime uses a user-defined data type (UDT) called TIME that was created in the User-Defined folder in the Controller Organizer. Once created, the TIME structure contains the following elements:

는 🚭 Data Types 은 🤐 User-Defined	Me	embers:		Data Type Size	e: 28 byte(s)	
Dint to Bits		Name	Data Type	Style	Description	External Access
		Year	DINT	Decimal		Read/Write
Will Yaskawa_AOI_Status_Bits		Month	DINT	Decimal		Read/Write
Waskawa_EIP_bervo		Day	DINT	Decimal		Read/Write
W Yaskawa OUT to Servo		Hour	DINT	Decimal		Read/Write
Yaskawa_EIP_Servo Yaskawa_IN_from_Servo Yaskawa_OUT_to_Servo Yaskawa_OUT_to_Servo Yaskawa_PLS_Switch		Minute	DINT	Decimal		Read/Write
🕀 🛄 Strings		Second	DINT	Decimal		Read/Write
Add-On-Defined		Microsecond	DINT	Decimal		Read/Write
User-Defined Dint to Bits TIME Yaskawa_AOI_Status_Bits Yaskawa_IN_From_Servo Yaskawa_IN_From_Servo Yaskawa_PLS_Switch Strings Add-On-Defined Predefined Module-Defined			I	I		

Here is the definition of the LocalDateTime structure:

Name:	LocalDateTime	GSV
Description:		Get System Value Class Name WallClockTii Instance Name Attribute Name LocalDateTii Dest LocalDateTime.Ye
Туре:	Base Connection	20
Alias For: Data Type:	×	
Scope:	ТІМЕ	
External Access: Style:	Read/Write	Get System Value Class Name WallClockTi Instance Name
organo.		Attribute Name LocalDateTi Dest LocalDateTime.Ye 20
Constant		

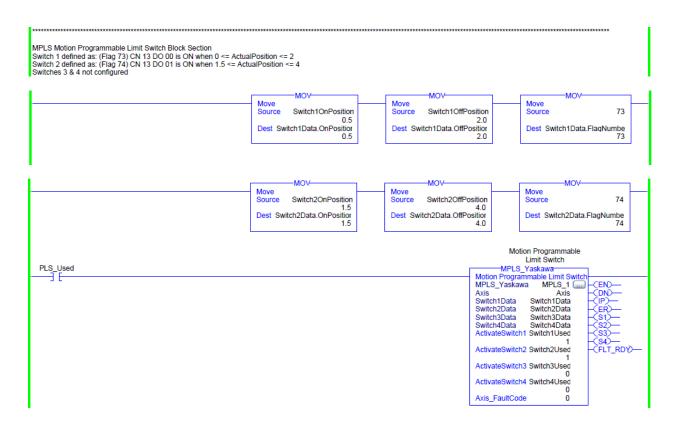
Title: SigmaLogic Example Code Example Manual

Product(s): SigmaLogic, LogicWorks

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17. MPLS_Yaskawa (Programmable Limit Switch Outputs)



The MPLS_Yaskawa AOI is used when outputs need to be triggered based on motor position. SigmaLogic can fire these position-based outputs faster than the PLC because the EIP communication cycle delays are cut out of the equation. The example above uses two of the available four PLS outputs. Switch1 is mapped to DO 00 (Flag 73) and Switch 2 is mapped to DO 01 (Flag 74). When MPLS is enabled, SigmaLogic will use the On Position and Off Position parameters of the SwitchData structure to trigger the outputs mapped by the Flag number. The On and Off Positions can be modified even while MPLS is enabled and those changes take effect immediately.

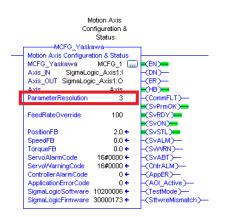


Product(s): SigmaLogic, LogicWorks

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18. Scaling

Position, Speed and Torque feedback values are included in the Axis structure but the elements of that structure are DINT. The ParameterResolution input of the MCFG AOI defines the number of decimal points of resolution included in those DINT values.



A clean way to take those DINT values and use them as REAL values in the program is to divide the DINT by the resolution and store into REAL variables like ActualPosition, ActualVelocity and ActualTorque.

***************************************	***************************************	***************************************	**************************
Section to Scale Feedback parameters from SigmaLogic into REAL for display purpose	es and easy use in comparison	functions	
	DIV	DIV	DIV
	Source A Axis.I.Position	Divide Source A Axis.I.Speed	Source A Axis.I.Torque
	255985	8	-440
	Source B 1000.0	Source B 1000.0	Source B 1000.0
	Deat Astro-Deathing	Deat Asharbicherite	Deat Astroit
	Dest ActualPosition 255.985	Dest ActualVelocity 0.008	Dest ActualTorque -0.44
	233.803	0.000	-0.44

Product(s): SigmaLogic, LogicWorks

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YASKAWA

Appendix A – SigmaLogic Status Registers included in Yaskawa_IN_from_Servo

-Axis.I	{}	{}	Yaskawa_IN_from_Servo	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
+ Axis.I.AlarmText	'No Alarm'	{}	STRING	Yaskawa SigmaLogic Axis Structure ServoPack Alarm Code plus Text Descrip
-Axis.I.b00_Heartbeat	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.b01_Alarm	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure ServoPack Alarm
-Axis.1.b02_Warning	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure ServoPack Warning
Axis.I.b03_Ready	1	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure ServoPack Ready
Axis.I.b04_Enabled	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure ServoPack Enabled ("Servo On")
Axis.I.b05_StopComplete	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.b06_HomeComplete	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b07_HomeBusy	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b08_HomeActive	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.1.b09_HomeAborted	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b10_HomeError	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.b11_MoveAbsComplete	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b12_MoveAbsBusy	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.b13_MoveAbsActive	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.b14_MoveAbsAborted	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.b15_MoveAbsError	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.b16_MoveRelComplete	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b17_MoveRelBusy	1	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b18_MoveRelActive	1	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b19_MoveRelAborted	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b20_MoveRelError	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b21_JogAtSpeed	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b22_JogBusy	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b23_JogActive	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b24_JogAborted	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.b25_JogError	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.b26_GearInSync	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.b27_GearBusy	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.b28_GearActive	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.1.b29_GearAborted	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.1.b30_GearError	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.b32_MoveSuperComplete	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b33_MoveSuperBusy	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b34_MoveSuperActive	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b35_MoveSuperAborted	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
-Axis.I.b36_MoveSuperError	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.b37 PowerCycleRequired	0	Decimal	8001	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska

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0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Flag Status. 164 are General Flags, Bits
0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Flag Status cont. 164 are General Flags,
0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Digital IO Status. Bits 0-7, CN13 Inputs 0
0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
			Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
	Decimal		Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
			Yaskawa SignaLogic Axis Structure Structure of data coming from the Yaska
			Yaskawa SiginaLogic Axis Structure Structure of data coming from the Yaska
0			Vaskawa SigmaLogic Axis Structure Structure of data coming from the Yas
0			Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
0 0 0			
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0 0 0 0 0 0	Decimal		Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
0 0 0 0 0 0 0 0 0	Decimal Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
0 0 0 0 0 0	Decimal		
	0 0 0 0 0 0 0 0 0 0 0	0 Decimal 0 Decimal	Decimal DINT 0 Decimal DINT 0 Decimal BODL

Title: SigmaLogic Example Code Example Manual

Product(s): SigmaLogic, LogicWorks

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YASKAWA

Axis.I.SetClock_Done	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.SetClock_Busy	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.SetClock_Error	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
+ Axis.I.SetClock_ErrorID	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
+ Axis.I.SoftwareVersion	10200006	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.FirmwareVersion	30000173	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
+ Axis.I.CommandedPos	2	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
+ Axis.I.CommandedPosNonCyc	2	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
+ Axis.I.CommandedSpeed	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
+ Axis.I.Clock_Year	2015	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
+ Axis.I.Clock_Month	7	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
	30	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
+ Axis.I.Clock_Hour	9	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
+ Axis.I.Clock_Minute	24	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
+ Axis.I.Clock_Second	1	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data coming from the Yaska
Axis.I.AnalogInput	2.0	Float	REAL	Yaskawa SigmaLogic Axis Structure CN13, Al_01 [v]
+ Axis.AOI_SB	{}	{}	Yaskawa_ADI_Status_Bits	Yaskawa SigmaLogic Axis Structure Internal bits used to interlock Yaskawa A

Product(s): SigmaLogic, LogicWorks

Doc. No. AN.SigmaLogic.01

YASKAWA

Appendix B – SigmaLogic Status Registers used in Yaskawa_OUT_to_Servo

Axis.0.b00 ServoOn	{}	{}		Yaskawa_OUT_to_Servo	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
-	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Servo On
-Axis.0.b01_Stop	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Stops All Current Motion in Progress
Axis.0.b02_Home	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Start Homing Process
Axis.0.b03_MoveStart1	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Start Current Motion
Axis.0.b06_SuperImpose	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.b07_ServoAlarmReset	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Servo Alarm Reset
Axis.0.b08_ControllerAlarmReset	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure SigmaLogic Alarm Reset
-Axis.0.b09_MoveStart2	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Start Second Motion (Blended Move)
-Axis.0.b10_MoveAbort	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Abort Current Move
-Axis.0.b11_MovePause	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Pause Current Move
-Axis.0.b12_SeqPause	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Indexing Sequence Pause
-Axis.0.b13_SeqResume	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Indexing Sequence Resume
-Axis.0.b14_SeqCancel	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Indexing Sequence Cancel
-Axis.0.b15_AbsEncoderReset	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Absolute Encoder Reset
Axis.O.b16_SeqStart	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Start Indexing Sequence
-Axis.O.b17_SeqEditSpeed	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Enter Edit Speed
Axis.0.b18_SeqEditDistance	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Enter Distance Edit
Axis.0.b19_PLSEnable	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Enable PLS execution
Axis.0.b20_PLSActivateOutput1	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Activate PLS output1 switch logic
Axis.0.b21_PLSActivateOutput2	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Activate PLS output2 switch logic
Axis.0.b22_PLSActivateOutput2	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Activate PLS outputs switch logic
Axis.0.b23_PLSActivateOutput4	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Activate PLS outputs switch logic
Axis.0.b23_PESActivateOutput4	0		Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Activate PLS outputs switch logic Yaskawa SigmaLogic Axis Structure Set the remote controller clock with data
Axis.U.b24_SetUlock Axis.0.b32 HeatbeatAnswer	0		Decimal Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Set the remote controller clock with data Yaskawa SigmaLogic Axis Structure Heartbeat Answer
-			Decimal	DINT	
+ Axis.O.TorqueLimit	0			DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.O.TorqueRamp	0		Decimal		Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.0.HomeMethod	0		Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.0.HomeSpeed	0		Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.0.HomeAccDec	0		Decimal	DINT	Yaskawa SigmaLogic Axis Structure Home Move Acceleration/Deceleration R
+ Axis.0.HomeBackOffDistance	0		Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.O.HomeCreepSpeed	0		Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.0.HomeCreepDistanceLimit	0		Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.O.HomeCreepTimeLimit	0		Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.0.HomeOffsetDistance	0		Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.0.HomeOffsetSpeed	0		Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.0.HomePostion	0		Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.O.HomeTorque	0		Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.0.HomeInputNo	84		Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.O.HomeApproachTimeLimit			Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
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+ Axis.O.HomeApproachDistLimit	0		Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.O.HomeApproachDistLimit + Axis.O.HomeDirection	0		Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.O.HomeApproachDistLimit + Axis.O.HomeDirection + Axis.O.HomeSwitchMode	0 0 0		Decimal Decimal	INT INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.HomeApproachDistLimit Axis.0.HomeDirection Axis.0.HomeSwitchMode Axis.0.MoveType	0 0 0		Decimal Decimal Decimal	INT INT INT	Yaskawa Sigmal.ogic Axis Structure Structure of data sent out to the Yaskaw Yaskawa Sigmal.ogic Axis Structure Structure of data sent out to the Yaskaw Yaskawa Sigmal.ogic Axis Structure Structure of data sent out to the Yaskaw
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Title: SigmaLogic Example Code Example Manual

Product(s): SigmaLogic, LogicWorks

Doc. No. AN.SigmaLogic.01

YASKAWA

+ Axis.0.FeedRateOverride	100	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
-Axis.O.HSI_Enable	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
-Axis.O.HSI_MoveMode	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure 0=Relative; 1=Moves per Cycle
-Axis.0.HSI_CalcMethod	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure 0=Accel/Decel; 1=Time
Axis.0.HSI_MoveDirection	0	Decimal	BOOL	Yaskawa SigmaLogic Axis Structure 0 = Negative; 1 = Positive
Axis.O.HSI_TriggerFlag	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.O.HSI_MovingFlag	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.HSI_DwellingFlag	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
-Axis.O.HSI_DoneFlag	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
-Axis.O.HSI_MoveType	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure 0=Single; 1=Repeat; 2=Repeat ''x'' times
Axis.0.HSI_RepeatNumber	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.HSI_Distance	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.HSI_Speed	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.HSI_Accel	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.HSI_MoveTime	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.HSI_DwellTime	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OutputFlag1	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OutputFlag2	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OutputFlag3	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OutputFlag4	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_0nPosition1	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OffPosition1	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_0nPosition2	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OffPosition2	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_0nPosition3	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OffPosition3	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_0nPosition4	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OffPosition4	0	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OnCompensation1	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OffCompensation1	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OnCompensation2	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OffCompensation2	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OnCompensation3	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_OffCompensation3	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.PLS_0nCompensation4	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.O.PLS_OffCompensation4	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.RTC_Year	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.RTC_Month	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
Axis.0.RTC_Day	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
- Axis.O.RTC_Hour	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
- Axis.O.RTC_Min	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
-Axis.O.RTC_Sec	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
-Axis.O.StopDecel	50000	Decimal	DINT	Yaskawa SigmaLogic Axis Structure Structure of data sent out to the Yaskaw
+ Axis.0.Analog0utput	0	Decimal	INT	Yaskawa SigmaLogic Axis Structure CN13, AO_01 [mV]