PROCESS CONTROL LAB MANUAL

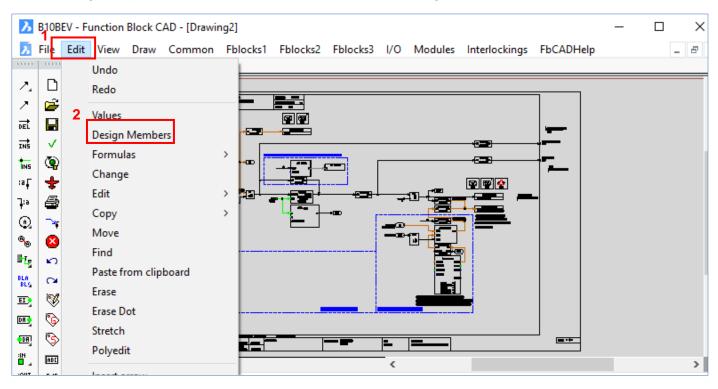
TRAINING 1: Implement Valmet Template to generate I/Os system and logic (Digital Input) 1. To open a template, change to templates workspace and browse to TRESLIB. Browse BINS for digital input templates.

DNA Explorer - [[EAS1] - Process Are Objective Street S	-			ineer]		_	D X
Object <u>E</u> dit <u>V</u> iew Design Upload/	Download Logs	Window	Неір				
DNA Explorer		P 🚽	🔄 🙆	ø) (nplates 💌
	Identifier /	Name	Category Description	Modific	Modifi	Qiea.	fault Workspace
E JB3_U3_PROCESS_MODEL	🗉 🖅 B00	Binary	Functi	2012	treslib	200	nary nolates
E JB4_U4_PROCESS_MODEL	⊞ ‡ 7] B00_00	Binary	Functi	2012	treslib		800_00
Not Categorized	🗉 🖅 B01	Binary	Functi	2019	dna	199	B01
🗄 📄 System Modules	🗉 🖅 B10	Binary	Functi	2012	treslib	201	B10
TRAINING1	🗉 🖅 B10BEV	Binev	Functi	2012	treslib	201	B10BEV
2 TRAINING2	🗉 🖅 B20	2 x Bin	Functi	2012	treslib	201	B20
	🗉 📅 B20BEV	2 x Bin	Functi	2012	treslib	201	B20BEV
3 AMS	🖽 🖅 B30	3 x Bin	Functi	2012	treslib	201	B30
BINS	🗉 🕢 B30BEV	3 x Bin	Functi	2012	treslib	201	B30BEV
ENERGY	🖽 🖅 B40	4 x Bin	Functi	2012	treslib	201	B40
GRPS	⊞ 🕁 B40BEV	4 x Bin	Functi	2012	treslib	201	B40BEV
	⊞ 🖅 B50	5 x Bin	Functi	2012	treslib	201	B50
	⊞ 🕁 B50BEV	5 x Bin	Functi	2012	treslib	201	B50BEV
SIMULATORS V		D:		2012	±	201	>
Ready	,		10 : 5	% UITag : 37	%		Items a

2. Select the digital input (DI) templates with desired parameters. In this example, choose B10BEV template. Double click to open.

🏈 DNA Explorer - [[EAS1] - Process A	rea Hierarchy - Worksp	ace <templates> - Application Engine</templates>	er]	- 🗆	×
Object <u>E</u> dit <u>V</u> iew Design Uploa	l/Download Logs <u>\</u>	<u>W</u> indow <u>H</u> elp			
DNA Explorer		De 🕗 🕒 🚺	👌 🔍 볼 temp	lates 🗾 Real	
🗄 🛅 JB2_U2_PROCESS_MODEL ^	Identifier	🛆 Name	Category	Description	^
Employeess_model	🗉 🖅 B00	Binary port without IO	Function Block Diagram		
🗄 🛅 JB4_U4_PROCESS_MODEL	🗉 🆅 B00_00	Binary for cold test	Function Block Diagram		
	🗉 🖅 B01	Binary port with BO, with pulse	Function Block Diagram		
🕀 🔁 System Modules		Binary switch, with masking	Function Block Diagram		_
TRAINING1	🗉 🕝 B10BEV	Binev switch, with masking	Function Block Diagram		
TRAINING2		2 x Binary switch	Function Block Diagram		_
	🗉 🖅 B20BEV	2 x Binev switch	Function Block Diagram		
AMS	🗉 🖅 B30	3 x Binary switch	Function Block Diagram		
BINS	🗉 🖅 B30BEV	3 x Binev switch	Function Block Diagram		
ENERGY	🖽 🆅 B40	4 x Binary switch	Function Block Diagram		
	🗉 🖅 B40BEV	4 x Binev switch	Function Block Diagram		
		5 x Binary switch	Function Block Diagram		
	B50BEV	5 x Binev switch	Function Block Diagram		
		Riney switch bm2, with masking	Function Block Diagram		~
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3. Create new DI application file. Template will be an application as soon as the template name changed. To change the parameter values, click Edit, then choose Design Members.

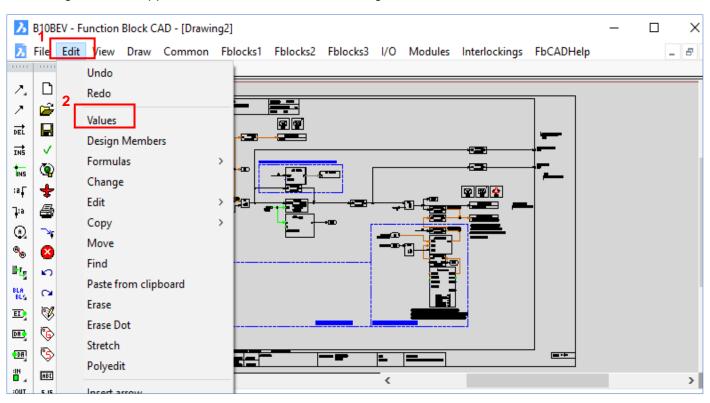


Parameters window will pop up. Default parameters are preferred except some that need to be changed according to the system requirement such as tag, I/O address and etc. For now, change the selected values to rename the template. Make sure that the changed values identify the respective I/O address.

Identifier	Prompt	Value	
S(DUMMV1)			
\$(TAG)	TAG	B10BEV	
S(TEMPLATE)	TEMPLATE	B10BEV	
\$(NAME20)	NAME20	BINEV	
(PACKAGE)	PACKAGE	APOI	
(EXE)	EXE	900	
\$(ORDER)	EXECUTION ORDER	20	
S(CTRLROOM)	CTRLROOM	A1	
(ALGROUP)	ALGROUP	11	
\$(ALPRI)	ALARM PRIORITY	700	
\$(GDID_1)	GDID_1		
S(NAME14)	NAME14	BINEV	
\$(NAME40_1)	NAME40_1	Binev switch, with masking	
5(NAME40_2)	NAME4U_2		
\$(FDESCR)	PATH TO FUNC.DESCRIPTION		
S(SIMULATION)	CARDS ARE SIMULATED	0	
\$(masking_used)	Masking is used (0=No/1=yes)	0	
\$(mask_inv)	Invert masking 1=inv/0=not inv	0	
\$(mask_delay)	Masking delay	15.0	
\$(masktag_1)	Tag of masking loop	#	
\$(masktext_1)	Text of masking loop		
\$(OTEXT0)	OTEXT0	OFF	
\$(OTEXT1)	OTEXT1	ON	
\$(H)	ALM(0= ,1=ALM,2=MSG)	1	
\$(ALTEXT)	ALM/MSG TEXT (15char)	LEVEL HIGH	
S(ALDELAX)	ALARMAND INDICATION DELAY	0	
\$(CARD_INV)	INVERT CARD SIGNAL 1=INV/0=NOT INV	1	
S(ODTAG_1)	ODTAG_1		
\$(ODTEXT_1)	ODTEXT_1		
\$(ODTAG_2)	ODTAG_2		
\$(ODTEXT_2)	ODTEXT_2		
\$(ODTAG_3)	ODTAG_3		
\$(ODTEXT_3)	ODTEXT_3		
\$(ODTAG_4)	ODTAG_4		
\$(ODTEXT_4)	ODTEXT_4		
\$(ODTAG_5)	ODTAG_5		
S(ODTEXT_5)	ODTEXT_5		
S(DUMMV2)	DEVICE		

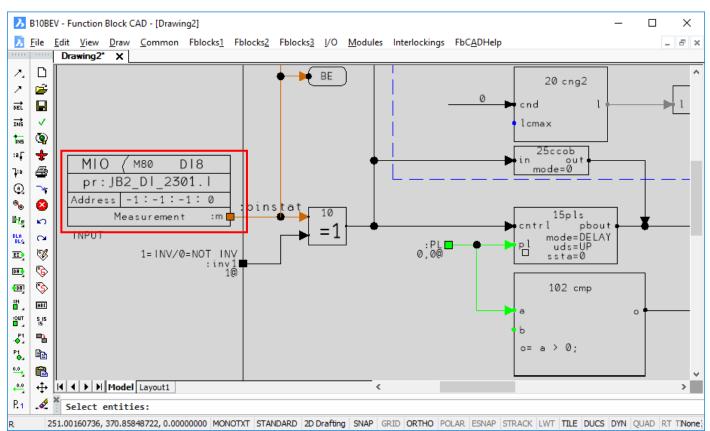
S(NAME40_1) NAME40_1 JB2 DI CH1 S(NAME40_2) NAME40_2 NAME40_2 S(FDESCR) PATH TO FUNC DESCRIPTION 0 S(SIMULATION) CARDS ARE SIMULATED 0 S(masking_used) Masking is used (0=No/1=yes) 0 S(mask_Inv) Invert masking 1=inv/0=not inv 0 S(mask_delay) Masking delay 15.0 S(maskag_1) Tag of masking loop # S(masktext_1) Text of masking loop # S(OTEXT0) OTEXT0 OFF S(ALTEXT) ALM(0=, 1=ALM,2=MSG) 0 S(ALTEXT) ALMMOS TEXT (15char) LEVEL HIGH S(ALDELAY) ALARM AND INDICATION DELAY 0 S(CATEXT) ODTEXT_1 ODTEXT_1 S(ODTAG_1) ODTEXT_1 ODTEXT_2 S(ODTAG_2) ODTAG_2 S(ODTAG_3) S(ODTAG_3) ODTEXT_3 S(ODTEXT_3) S(ODTAG_4) ODTEXT_4 S(ODTAG_5 S(ODTAG_5) ODTAG_5 S(ODTAG_5) <th>Identifier</th> <th>Prompt</th> <th>Value</th>	Identifier	Prompt	Value
STEEME ATE: TEMELATE FERRE/ACC FERRE/ACC \$(NAME20) NAME20 JB2 DI CH1 \$(NAME20) PACKAGE AP61 \$(EXE) EXE 900 \$(CRER) EXECUTION ORDER 20 \$(CTRLROOM) CTRLROOM A1 \$(CALGROUP) ALGROUP 11 \$(ALGROUP) ALGROUP 11 \$(ALGROUP) ALGROUP 11 \$(ALGROUP) ALGROUP 11 \$(ALGROUP) ALGROUP 100 \$(GDD_1) GDD_1 BUEV \$(ALGROUP) ALGROUP 11 \$(ALGROUP) ALGROUP 10 \$(SMAME40_1) NAME40_1 JB2 DI CH1 \$(NAME40_1) NAME40_1 JB2 DI CH1 \$(SNMULATION) CARDS ARE SIMULATED 0 \$(SMAKIA_1) Masking is used (0=No/1=yes) 0 \$(Smaskiag_1) Tag of masking loop # \$(SMAKIA_1) Task of masking loop # \$(CATEXTO) OTEXT0 ON <th>******</th> <th>÷</th> <th></th>	******	÷	
\$\nAME20\ NAME20 JB2 DI CH1 \$\nAme20\ APO1 \$\nAme20\ EXE 900 \$\nAme20\nmbox{CRLRDOW EXECUTION ORDER 20 \$\nAme20\nmbox{CTRLROOM} CTRLROOM A1 \$\nAme20\nmbox{CTRLROOM} ALGROUP A1 \$\nAme20\nmbox{CTRLROOM} ALGROUP 11 \$\nAme20\nmbox{CTRLROOM} ALGROUP 11 \$\name20\nmbox{CTRLROOM} ALGROUP 11 \$\name20\nmbox{CTRLROOM} ALGROUP 11 \$\name20\nmbox{CTRLROOM} ALGROUP ALGROUP \$\name20CAPDD 1 GDD_1 Statestime \$\name20\nmbox{CAPDS ARE SIMULATION JB2 DI CH1 Statestime \$\names(nv) Naketq_2 0 0 \$\names(nv) Naketq_10 0 0 \$\names(nv) Masking useq (0=No1/1=yes) 0 0 \$\names(nv) Masking delay 15.0 5 \$\names(nsing loop # \$ \$ \$\names(ntext_Content on DELAY 0 0 \$ \$\names(ntext_Contenton DELAY 0 0 <	<u> </u>		
STPACKAGE PACKAGE AP01 S(EXE) EXE 900 S(CRDER) EXECUTION ORDER 20 S(CTRLROOM) CTRLROOM A1 S(ALGROUP) ALGROUP 11 S(ALGROUP) ALGROUP 11 S(ALGROUP) ALGROUP 700 S(GDD_1) GDD_1 NAME40_1 PINEV S(NAME14) NAME40_1 BUEV S(NAME14) NAME40_1 BUEV S(MAME14) NAME40_1 B2 DI CH1 S(MAME14) NAME40_1 B2 DI CH1 S(MAME3) MAME40_1 BUEV S(MAME40_1) NAME40_1 B2 DI CH1 S(MAME3) Masking used (0=No1=ves) 0 S(S(MULATION) CARDS ARE S(MULATED 0 S(masked_1) Text of masking loop # <tr< td=""><td></td><td>÷</td><td></td></tr<>		÷	
S(EXE) EXE 900 S(ORDER) EXECUTION ORDER 20 S(CTRLROOM) CTRLROOM A1 S(ALGROUP) ALGROUP 11 S(ALDRU) ALARM PRIORITY 700 S(GDL)1 GDD_1 Toto S(NAME44) HAME14 BINEY S(NAME40_1) NAME14_ BINEY S(NAME40_1) NAME10_T BINEY S(NAME40_1) NAME10_T BINEY S(NAME40_1) NAME10_T BINEY S(NAME40_1) NAME14			
S(ORDER) EXECUTION ORDER 20 S(CTRLROOM) CTRLROOM A1 S(ALGROUP) ALGROUP 11 S(ALGROUP) ALGROUP 700 S(ALGROUP) ALGROUP 700 S(ALGROUP) ALGROUP 700 S(ADME14) NAME14 EMEV S(NAME40_1) NAME40_1 JB2 DI CH1 S(NAME40_2) NAME40_2 HAME40_2 S(NAME40_1) NAME40_2 HAME40_1 S(SMULATTON) CARDS ARE SIMULATED 0 S(masking_used) Masking t=inv/0=not inv 0 S(masking_used) Masking feap 15.0 S(masking_1) Tag of masking loop # S(OTEXT0) OTEXT0 OFF S(OTEXT1) OTEXT0 ON S(ALERAT) ALMONE IEXT(15Char) EVEV_L HIGH S(ADEAL ON 1 S(ALEXT) ALMMANG IEXT(15Char) 0 S(ALEXT) ALMMANG IEXT(15Char) EVEV_L HIGH S(ALEXT) ALMMAND INDICATION DELAY	\$(PACKAGE)	PACKAGE	
S(CTRLROOM) CTRLROOM A1 S(ALGRUP) ALGROUP 11 S(ALER) ALARM PRIORITY 700 S(GDD_1) GDD_1 TOO S(MAME14) NAME40_1 BINEV S(NAME40_1) NAME40_1 JB2 DI CH1 S(NAME40_2) NAME40_2 JB2 DI CH1 S(NAME40_2) NAME40_2 JB2 DI CH1 S(NAME40_2) NAME40_2 JB2 DI CH1 S(MAME40_1) CARDS ARE SIMULATED 0 S(masking_used) Masking sused (0=No/1=yes) 0 S(masking_used) Masking tim/0=not inv 0 S(masking_linv) Invert masking 1=in/0/0=not inv 0 S(masking_linv) Invert masking loop # S(masking_linv) Tag of masking loop # S(TEXTO) OTEXTO OFF S(OTEXTO) OTEXTO OFF S(OTEXTO) ALARM AND INDICATION DELAY 0 S(ALERIN) ALMMOF STEXT (15-COMP) LEVEL HIGH S(ODTAG_1) ODTEXT_1 ODTEXT_1	\$(EXE)	EXE	
S(ALGROUP) ALGROUP 11 S(ALFRI) ALARM PRIORITY 700 S(GDD_1) GDD_1 RMEM RMEM S(NAME40_1) NAME40_1 JB2 DI CH1 SUBSCI S(NAME40_2) NAME40_2 JB2 DI CH1 SUBSCI S(ROUP) ALARM PRIORITY JB2 DI CH1 JB2 DI CH1 S(ROUP) NAME40_2 JB2 DI CH1 JB2 DI CH1 S(RAME40_2) NAME40_2 JB2 DI CH1 JB2 DI CH1 S(RAME40_2) NAME40_2 O O S(RMULATION) CARDS ARE SIMULATED O O S(Imasking_used) Masking lay and (0=N/1=yes) O O S(mask_inv) Invert masking loop # # S(masktext_1) Text of masking loop # S(OTEXT0) OTEXT0 S(CIEXT1) OTEXT0 OTEXT0 OFF S(ALIEXT1) ALMMO=IDEXT(TSCHAP O S(CARD_NV) INVERT CARD SIGNAL 1=INV/0=NOT INV O O S(ODTEXT_1) ODTEXT_1 S(ODTAG_1) ODTAG_1 <td>\$(ORDER)</td> <td>EXECUTION ORDER</td> <td>20</td>	\$(ORDER)	EXECUTION ORDER	20
S(ALPR) ALARM PRIORITY 700 S(GDD_1) GDD_1 Filter Filter S(NAME40_1) NAME40_1 JB2 DI CH1 JB2 DI CH1 S(NAME40_2) NAME40_2 JB2 DI CH1 S(FOESCR) S(NAME40_2) NAME40_2 0 S(FOESCR) S(FOESCR) PATH TO FUNC DESCRIPTION 0 S(SMULATON) S(SMULATION) CARDS ARE SIMULATED 0 0 S(mask_inv) Invert masking 1=nv/0=not inv 0 0 S(mask_delay) Masking delay 15.0 S(mask=delay) # S(mask=delay) Masking loop # S(OTEXT0) OTEXT0 OFF S(OTEXT0) OTEXT0 OTEXT0 ON S(H) ALMMSG TEXT (15Char) DN S(H) ALMMSG TEXT (15Char) LEVEL HIGH S(OTEXT1) OTEXT1 ON S(CARD_NV) INVERT CARD SIGNAL 1=INV/0=NOT INV 0 O S(OTEXT_1) ODTAG_1 S(ODTAG_1) ODTAG_2 ODTAG_2 S(OTEXT_3) ODTEXT_2 S(OTEXT_3)	\$(CTRLROOM)	CTRLROOM	A1
\$(GDD_1) GDID_1 \$(AUAUE14) NAME40_1 \$(NAME40_1) NAME40_1 \$(NAME40_2) NAME40_1 \$(NAME40_2) NAME40_2 \$(NAME40_2) NAME40_2 \$(FDESCR) PATH TO FUNC DESCRIPTION \$(SIMULATION) CARDS ARE SIMULATED 0 \$(masking_used) Masking is used (0=No/1=yes) 0 \$(mask_inv) invert masking 1=inv/0=not inv 0 \$(maska_1) Tag of masking loop # \$(maskta_1) Text of masking loop # \$(oTEXT0) OTEXT0 OFF \$(ALLEXT) OTEXT1 OTEXT1 \$(ALLEXT) ALAMMSG TEXT (15Char) LEVEL HIGH \$(ALDELAY) ALAMMSG TEXT (15Char) EVEL HIGH \$(ALDELAY) ALARM AND INDICATION DELAY 0 \$(COTAG_1) ODTAG_1 ODTAG_1 \$(ODTAG_1) ODTAG_2 ODTAG_2 \$(ODTAG_2) ODTAG_3 S(ODTAG_3) \$(ODTEXT_3) ODTAG_4 S(ODTAG_5) \$(ODTAG_5) ODTAG_5 S(ODTAG_5) \$(ODTAG_5) ODTAG_5	\$(ALGROUP)	ALGROUP	11
S(MAME40_1) NAME40_1 BMEV \$(NAME40_1) NAME40_1 JB2 DI CH[] \$(NAME40_2) NAME40_2 NAME40_2 \$(FDESCR) PATH TO FUNC DESCRIPTION 0 \$(smasking_used) Masking is used (0=No/1=yes) 0 \$(mask_inv) Invert masking 1=inv/0=not inv 0 \$(mask_delay) Masking delay 15.0 \$(maska_1) Tag of masking loop # \$(maska_1) Text of masking loop # \$(maska_1) Text of masking loop 0 \$(TEXT0) OTEXT1 ON \$(ITEXT1) OTEXT1 ON \$(ALLEX1) ALMMSG TEXT (15Char) LEVCL HIGH \$(ALLEX1) ALARM AND INDICATON DELAY 0 \$(CARD_INV) INVERT CARD SIGNAL 1=INV/0=NOT INV 0 \$(ODTAG_1) ODTAG_1	\$(ALPRI)	ALARM PRIORITY	700
S(NAME40_1) NAME40_1 JB2 DI CH1 S(NAME40_2) NAME40_2 NAME40_2 S(FDESCR) PATH TO FUNC DESCRIPTION 0 S(SIMULATION) CARDS ARE SIMULATED 0 S(masking_used) Masking is used (0=No/1=yes) 0 S(mask_delay) Invert masking 1=inv/0=not inv 0 S(mask_delay) Masking delay 15.0 S(maskag_1) Tag of masking loop # S(masktext_1) Text of masking loop # S(OTEXT0) OTEXT0 OFFF S(ALTEXT) ALM(0=.1=ALM,2=MSG) 0 S(ALTEXT) ALM(0=.1=ALM,2=MSG) 1 S(ALTEXT) ALARM AND INDICATION DELAY 0 S(ALDELAY) ALARM AND INDICATION DELAY 0 S(ODTAG_1) ODTEXT_1 0 0 S(ODTAG_1) ODTEXT_2 0 0 S(ODTAG_2) ODTAG_2 0 0 S(ODTAG_3) ODTAG_3 0 0 S(ODTAG_3) ODTAG_4 0 0	\$(GDID_1)	GDID_1	
S(NAME4U_2) NAME4U_2 \$(FDESCR) PATH TO FUNC.DESCRIPTION \$(SIMULATION) CARDS ARE SIMULATED 0 0 \$(masking_used) Masking is used (0=No/1=yes) 0 \$(mask_inv) Invert masking 1=inv/0=not inv 0 \$(mask_delay) Masking delay 15.0 \$(masktag_1) Tag of masking loop # \$(oTEXT0) OTEXT0 OFF \$(oTEXT1) OTEXT1 ON \$(ALTEXT) ALM(0=, 1=ALM,2=MSG) 1 \$(ALTEXT) ALARM AND INDICATION DELAY 0 \$(ALTEXT) ALARM AND INDICATION DELAY 0 \$(ADTAG_1) ODTAG_1 0 \$(ODTAG_1) ODTAG_2 0 \$(ODTAG_2) ODTAG_2 0 \$(ODTAG_3) ODTAG_3 0 \$(ODTAG_4) ODTAG_5 0 \$(ODT	S(NAME14)	NAME14	BINEV
S(FDESCR) PATH TO FUNC DESCRIPTION S(SMULATION) CARDS ARE SIMULATED 0 S(masking_used) Masking is used (0=No/1=yes) 0 S(mask_inv) Invert masking 1=inv/0=not inv 0 S(mask_inv) Invert masking 1=inv/0=not inv 0 S(mask_delay) Masking delay 15.0 S(mask_tag_1) Tag of masking loop # S(mask_tag_1) Tag of masking loop # S(TEXT0) OTEXT0 OFF S(OTEXT1) OTEXT1 OTEXT1 S(H) ALM(0=, 1=ALM,2=MSG) 1 S(ALTEXT) ALMMSG TEXT (15char) LEVEL HIGH S(ALTEXT) ALARM AND INDICATION DELAY 0 S(OATAG_1) ODTAG_1 ODTAG_1 S(ODTAG_1) ODTAG_1 ODTAG_2 S(ODTEXT_2) ODTEXT_2 OTEXT_2 S(ODTAG_3) ODTAG_3 S(ODTEXT_3) S(ODTEXT_3) ODTEXT_4 S(ODTAG_5 S(ODTAG_5) ODTAG_5 S(ODTAG_5	\$(NAME40_1)	NAME40_1	JB2 DI CH1
S(SIMULATION) CARDS ARE SIMULATED 0 \$(masking_used) Masking is used (0=No/1=yes) 0 \$(mask_inv) Invert masking 1=inv/0=not inv 0 \$(mask_inv) Masking delay 15.0 \$(maskidelay) Masking for the second of t	\$(NAME40_2)	NAME40_2	
S(masking_used) Masking is used (0=No/1=yes) 0 S(mask_inv) Invert masking 1=in//0=not inv 0 S(mask_delay) Masking delay 15.0 S(mask_delay) Masking dop # S(maskteg_1) Tag of masking loop # S(maskteg_1) Text of masking loop # S(maskteg_1) Text of masking loop # S(OTEXT0) OTEXT0 OFF S(OTEXT1) OTEXT1 ON S(I) ALM(0=, 1=ALM,2=MSG) 1 S(ALDELAY) ALMMOS TEXT (15char) LEVEL HIGH S(CARD_NV) NVERT CARD SK3NAL 1=INV/0=NOT INV 0 S(ODTAG_1) ODTAG_1 0 S(ODTEXT_1) ODTEXT_1 0 S(ODTEXT_2) ODTAG_2 0 S(ODTAG_3) ODTAG_3 0 S(ODTEXT_3) ODTEXT_3 0 S(ODTEXT_4) ODTAG_4 0 S(ODTAG_5) ODTAG_5 0 S(ODTAG_5) ODTAG_5 S(ODTAG_5)	\$(FDESCR)	PATH TO FUNC.DESCRIPTION	
S(mask_inv) Invert masking 1=inv/0=not inv 0 S(mask_delay) Masking delay 15.0 S(mask_delay) Tag of masking loop # S(masktsg_1) Tag of masking loop # S(masktsg_1) Text of masking loop # S(OTEXT0) OTEXT0 OFF S(OTEXT1) OTEXT1 ON S(H) ALM(0=_1=ALM,2=MSG) 1 S(ALIEXT) ALARMAND INDICATION DELAY 0 S(ALEXT) ALARM AND INDICATION DELAY 0 S(ODTAG_1) ODTAG_1 0 S(ODTEXT_1) ODTEXT_1 0 S(ODTAG_2) ODTAG_1 0 S(ODTEXT_2) ODTAG_2 0 S(ODTEXT_3) ODTEXT_2 0 S(ODTEXT_3) ODTEXT_4 0 S(ODTEXT_4) ODTAG_5 0 S(ODTEXT_5) ODTEXT_5 0	\$(SIMULATION)	CARDS ARE SIMULATED	0
S(mask_delay) Masking delay 15.0 S(mask_delay) Tag of masking loop # S(maskext_1) Text of masking loop # S(OTEXT0) OTEXT0 OFF S(OTEXT1) OTEXT1 ON S(H) ALM(0= ,1=ALM,2=MSG) 1 S(ALTEXT) ALMMSG TEXT (15char) LEVEL HIGH S(ALTEXT) ALARM AND INDICATION DELAY 0 S(CARD_INV) NVERT CARD SIGNAL 1=INV/0=NOT INV 0 S(ODTAG_1) ODTAG_1 0 S(ODTAG_2) ODTAG_2 0 S(ODTEXT_2) ODTEXT_2 0 S(ODTAG_3) ODTAG_3 0 S(ODTAG_4) ODTEXT_3 0 S(ODTAG_5) ODTAG_4 0 S(ODTAG_5) ODTEXT_5 0 S(ODTAG_5) ODTEXT_5 0	\$(masking_used)	Masking is used (0=No/1=yes)	0
S(masktag_1) Tag of masking loop # S(masktext_1) Text of masking loop OFF S(OTEXT0) OTEXT0 OFF S(OTEXT1) OTEXT1 ON S(H) ALM(0=,1=ALM,2=MSG) 1 S(ALTEXT) ALMMSG TEXT (15char) LEVEL HIGH S(ALTEXT) ALARM AND INDICATION DELAY 0 S(CARD_INV) NVERT CARD SIGNAL 1=INV/0=NOT INV 0 S(ODTAG_1) ODTAG_1 0 S(ODTAG_2) ODTAG_2 0 S(ODTAG_2) ODTAG_2 0 S(ODTAG_3) ODTAG_3 0 S(ODTAG_3) ODTAG_3 0 S(ODTAG_4) ODTAG_4	\$(mask_inv)	Invert masking 1=inv/0=not inv	0
S(masktag_1) Tag of masking loop # S(masktext_1) Text of masking loop OFF S(OTEXT0) OTEXT0 OFF S(OTEXT1) OTEXT1 ON S(H) ALM(0=,1=ALM,2=MSG) 1 S(ALTEXT) ALMMSG TEXT (15char) LEVEL HIGH S(ALTEXT) ALARM AND INDICATION DELAY 0 S(CARD_INV) NVERT CARD SIGNAL 1=INV/0=NOT INV 0 S(ODTAG_1) ODTAG_1 0 S(ODTAG_2) ODTAG_2 0 S(ODTAG_2) ODTAG_2 0 S(ODTAG_3) ODTAG_3 0 S(ODTAG_3) ODTAG_3 0 S(ODTAG_4) ODTAG_4			15.0
S(masktext_1) Text of masking loop OFF S(OTEXT0) OTEXT0 OFF S(DTEXT1) OTEXT1 ON S(H) ALM(0= ,1=ALM,2=MSG) 1 S(ALTEXT) ALM/MSG TEXT (15char) LEVEL HIGH S(ALDELAY) ALARM AND INDICATION DELAY 0 S(CARD_INV) INVERT CARD SIGNAL 1=INV/0=NOT INV 0 S(ODTAG_1) ODTAG_1 0 S(ODTAG_2) ODTAG_2 0 S(ODTAG_3) ODTAG_3 0 S(ODTAG_3) ODTAG_4 0 S(ODTEXT_4) ODTAG_4 0 S(ODTAG_4) ODTAG_5 0 S(ODTAG_5) ODTAG_5 0 S(ODTAG_5) ODTAG_5 0			#
S(OTEXT0) OTEXT0 OFF S(OTEXT1) OTEXT1 ON S(H) ALM(0=,1=ALM,2=MSG) 1 S(ALTEXT) ALM/MSG TEXT (15char) LEVEL HIGH S(ALDELAY) ALARM AND INDICATION DELAY 0 S(CARD_INV) INVERT CARD SIGNAL 1=INV/0=NOT INV 0 S(ODTAG_1) ODTAG_1 0 S(ODTAG_2) ODTAG_2 0 S(ODTEXT_1) ODTEXT_2 0 S(ODTEXT_3) ODTAG_3 0 S(ODTAG_3) ODTAG_4 0 S(ODTAG_4) ODTAG_5 0 S(ODTAG_5) ODTAG_5 0 S(ODTAG_5) ODTAG_5 0			
S(OTEXT1) OTEXT1 ON \$(H) ALM(0=,1=ALM,2=MSG) 1 \$(ALTEXT) ALMMISG TEXT (15char) LEVEL HIGH \$(ALDELAY) ALARM AND INDICATION DELAY 0 \$(CARD_INV) INVERT CARD SIGNAL 1=INV/0=NOT INV 0 \$(COTTAG_1) ODTAG_1 0 \$(ODTAG_2) ODTAG_2 0 \$(ODTEXT_1) ODTEXT_2 0 \$(ODTEXT_2) ODTAG_3 0 \$(ODTEXT_3) ODTAG_3 0 \$(ODTAG_4) ODTAG_4 0 \$(ODTAG_5) ODTAG_5 0 \$(ODTAG_5) ODTAG_5 0			OFF
S(ALTEXT) ALMMING TEXT (15char) LEVEL HIGH \$(ALDELAY) ALARM AND INDICATION DELAY 0 \$(CARD_INV) INVERT CARD SIGNAL 1=INV/0=NOT INV 0 \$(ODTAG_1) ODTAG_1 0 \$(ODTAG_2) ODTAG_2 0 \$(ODTAG_2) ODTAG_2 0 \$(ODTAG_3) ODTAG_3 0 \$(ODTEXT_3) ODTEXT_3 0 \$(ODTAG_4) ODTAG_4 0 \$(ODTAG_5) ODTAG_5 0 \$(ODTAG_5) ODTAG_5 0 \$(ODTAG_5) ODTAG_5 0		OTEXT1	ON
S(ALTEX.T) ALM/MSG TEXT (15char) LEVEL HIGH \$(ALDELAY) ALARM AND INDICATION DELAY 0 \$(CARD_INV) INVERT CARD SIGNAL 1=INV/0=NOT INV 0 \$(ODTAG_1) ODTAG_1 0 \$(ODTAG_2) ODTAG_2 0 \$(ODTAG_2) ODTAG_2 0 \$(ODTAG_3) ODTAG_3 0 \$(ODTAG_4) ODTAG_4 0 \$(ODTAG_5) ODTAG_5 0 \$(ODTAG_5) ODTAG_5 0	S(H)	ALM(0= ,1=ALM,2=MSG)	1
\$(ALDELAY) ALARM AND INDICATION DELAY 0 \$(CARD_INV) INVERT CARD SIGNAL 1=INV/0=NOT INV 0 \$(ODTAG_1) ODTAG_1 0 \$(ODTEXT_1) ODTEXT_1 0 \$(ODTAG_2) ODTAG_2 0 \$(ODTAG_3) ODTAG_3 0 \$(ODTEXT_3) ODTEXT_3 0 \$(ODTAG_4) ODTAG_4 0 \$(ODTAG_5) ODTAG_5 0 \$(ODTAG_5) ODTAG_5 0 \$(ODTAG_5) ODTEXT_5 0	S(ALTEXT)	······	LEVEL HIGH
\$(CARD_INV) INVERT CARD SIGNAL 1=INV/0=NOT INV 0 \$(ODTAG_1) ODTAG_1		······	0
\$(ODTAG_1) ODTAG_1 \$(ODTEXT_1) ODTEXT_1 \$(ODTAG_2) ODTAG_2 \$(ODTAG_3) ODTEXT_2 \$(ODTAG_3) ODTAG_3 \$(ODTAG_4) ODTAG_4 \$(ODTAG_4) ODTAG_4 \$(ODTAG_4) ODTAG_4 \$(ODTAG_5) ODTAG_5 \$(ODTAG_5) ODTAG_5 \$(ODTAG_5) ODTEXT_5 \$(DUMMY2) DEV/CE	S(CARD INV)	INVERT CARD SIGNAL 1=INV/0=NOT INV	0
\$(ODTEXT_1) ODTEXT_1 \$(ODTAG_2) ODTAG_2 \$(ODTEXT_2) ODTEXT_2 \$(ODTAG_3) ODTAG_3 \$(ODTEXT_3) ODTEXT_3 \$(ODTAG_4) ODTAG_4 \$(ODTEXT_4) ODTEXT_4 \$(ODTEXT_5) ODTEXT_5 \$(DUMMY2) DEV/CE		ODTAG 1	
\$(ODTAG_2) ODTAG_2 \$(ODTEXT_2) ODTEXT_2 \$(ODTAG_3) ODTAG_3 \$(ODTAG_3) ODTAG_3 \$(ODTAG_4) ODTAG_4 \$(ODTAG_5) ODTAG_5 \$(ODTAG_5) ODTAG_5 \$(ODTAG_5) ODTEXT_5 \$(DUMMY2) DEV/CE			
\$(ODTEXT_2) ODTEXT_2 \$(ODTAG_3) ODTAG_3 \$(ODTEXT_3) ODTAG_4 \$(ODTAG_4) ODTAG_4 \$(ODTAG_5) ODTAG_5 \$(ODTAG_5) ODTAG_5 \$(ODTEXT_5) ODTEXT_5			
\$(ODTAG_3) ODTAG_3 \$(ODTEXT_3) ODTEXT_3 \$(ODTAG_4) ODTAG_4 \$(ODTEXT_4) ODTEXT_4 \$(ODTAG_5) ODTAG_5 \$(ODTEXT_5) ODTEXT_5 \$(DUMMY2) DEV/CE			
\$(ODTEXT_3) ODTEXT_3 \$(ODTAG_4) ODTAG_4 \$(ODTEXT_4) ODTEXT_4 \$(ODTAG_5) ODTAG_5 \$(ODTEXT_5) ODTEXT_5 \$(DUMMY2) DEV/CE			
\$(DDTAG_4) ODTAG_4 \$(DDTEXT_4) ODTEXT_4 \$(DDTAG_5) ODTAG_5 \$(DDTEXT_5) ODTEXT_5 \$(DUMMY2) DEV/CE			
\$(ODTEXT_4) ODTEXT_4 \$(ODTAG_5) ODTAG_5 \$(ODTEXT_5) ODTEXT_5 \$(DUMMY2) DEV/CE			
\$(ODTAG_5) ODTAG_5 \$(ODTEXT_5) ODTEXT_5 \$(DUMMY2) DEV/CE		\$	
\$(ODTEXT_5) ODTEXT_5 \$(DUMMY2) DEV/CE			
S(DUMMY2)			
		2	IB2_DL_2304
	a(DEVICETAGT)	DEVICEIAGI	JB2_DI_2301
Show Formulas Function formula: Typehelp	Show Formulas	Function formula:	Typehelp

For example: Digital input at JB 2 using Channel 1. Software address = 2301. Then click OK.



4. Change the new application file I/O address. To change the address, click Edit and choose Values.

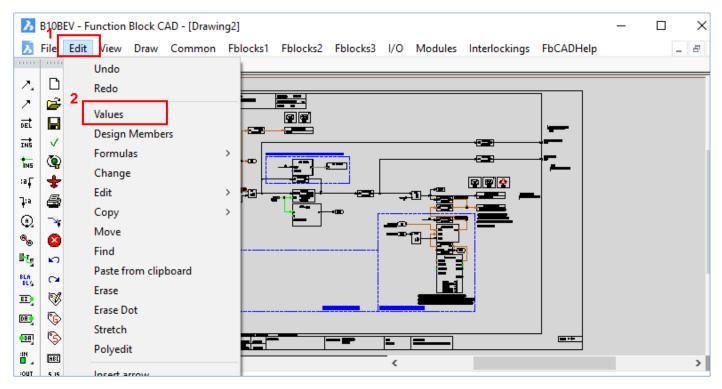
Then, click the I/O address box.



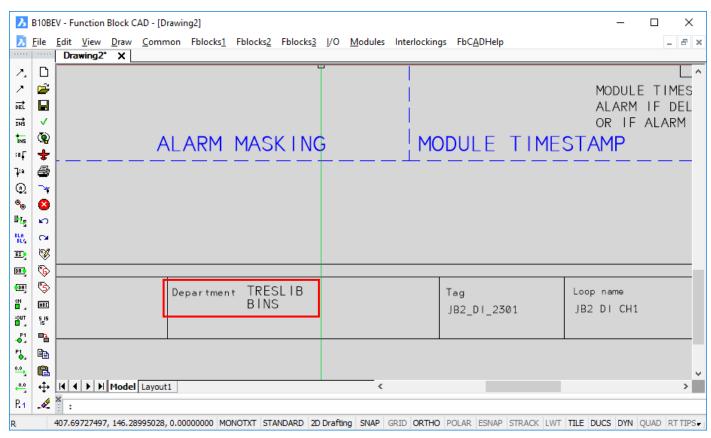
A parameter selection window will pop up. Default values are in preferred in the window. Only change values in the red box according to the respective I/O address. Then, click OK.

		×
Prompt	Value	T A
	B2_DI_2301.	-
Card type DI8		
IO cabinet		
FBC slot (2-15) -1		
BC number (0-15) -1		
Card place (0-15) -1		
Channel number (0-7) 0		
Minimum pulse 13		
Hold time 12		
Additional parameter		
Input fault control 0		
Comment text	IT	
Simulation parameters		
Simulation Group SI	1	
Enable simulation 1		
Location		
Document link 1		
Document link 2		
Document link 3		· 🗸 -
		.] 🗡
Show Formulas Function formula: \$(CARDTYPE1)==DI8	Typehelp di8	
+ - OK Cancel		
Editing attributes of -IO_DI8_BINEV		
		Х
	Value	×
Prompt		
	Value pr:JB2_DI_2301.1 DI8	
Prompt Input module name	pr:JB2_DI_2301.I	
Prompt Input module name Card type IO cabinet	pr:JB2_DI_2301.1 DI8 2 FBC	
Prompt Input module name Card type	pr:JB2_DI_2301.I DI8	
Prompt Input module name Card type IO cabinet FBC slot (2-15) BC number (0-15)	pr:JB2_DI_2301.1 DI8 2 FBC	
Prompt Input module name Card type IO cabinet FBC slot (2-15)	pr.JB2_DI_2301.1 DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI	
Prompt Input module name Card type IO cabinet FBC slot (2-15) BC number (0-15) Card place (0-15)	pr.JB2_DI_2301.1 DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI	
Prompt Input module name Card type IO cabinet FBC slot (2-15) BC number (0-15) Card place (0-15) Channel number (0-7)	pr.JB2_DL_2301. DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI 1 Channel 1 13 12	
Prompt Input module name Card type IO cabinet FBC slot (2-15) BC number (0-15) Card place (0-15) Channel number (0-7) Minimum pulse	pr:JB2_DI_2301.1 DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI 1 Channel 1 13	
Prompt Input module name Card type IO cabinet FBC slot (2-15) BC number (0-15) Card place (0-15) Channel number (0-7) Minimum pulse Hold time	pr.JB2_DL_2301. DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI 1 Channel 1 13 12	
Prompt Input module name Card type IO cabinet FBC slot (2-15) IBC number (0-15) Card place (0-15) Card place (0-15) Channel number (0-7) Minimum pulse Hold time Additional parameter	pr:JB2_DI_2301. DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI 1 Channel 1 13 12	
Prompt Input module name Card type IO cabinet FBC slot (2-15) IBC number (0-15) Card place (0-15) Channel number (0-7) Minimum pulse Hold time Additional parameter Input fault control	pr.JB2_01_2301.1 DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI 1 Channel 1 13 12 0 0	
Prompt Input module name Card type IO cabinet FBC slot (2-15) IBC number (0-15) Card place (0-15) Channel number (0-7) Minimum pulse Hold time Additional parameter Input fault control Comment text	pr.JB2_01_2301.1 DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI 1 Channel 1 13 12 0 0	
Prompt Input module name Card type IO cabinet FBC slot (2-15) IBC number (0-15) Card place (0-15) Channel number (0-7) Minimum pulse Hold time Additional parameter Input fault control Comment text Simulation parameters	pr.JB2_DI_2301.1 DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI 1 Channel 1 13 12 = 0 NPUT	
Prompt Input module name Card type IO cabinet FBC slot (2-15) IBC number (0-15) Card place (0-15) Channel number (0-7) Minimum pulse Hold time Additional parameter Input fault control Comment text - Simulation parameters Simulation Group	pr.JB2_DL_2301. DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI 1 Channel 1 13 12	
Prompt Input module name Card type IO cabinet FBC slot (2-15) IBC number (0-15) Card place (0-15) Channel number (0-7) Minimum pulse Hold time Additional parameter Input fault control Comment text - Simulation parameters Simulation Group Enable simulation	pr.JB2_DL_2301. DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI 1 Channel 1 13 12	
Prompt Input module name Card type IO cabinet FBC slot (2-15) BC number (0-15) Card place (0-15) Channel number (0-7) Minimum pulse Hold time Additional parameter Input fault control Comment text - Simulation parameters Simulation Group Enable simulation Location	pr.JB2_DL_2301. DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI 1 Channel 1 13 12	
Prompt Input module name Card type IO cabinet FBC slot (2-15) BC number (0-15) Card place (0-15) Channel number (0-7) Minimum pulse Hold time Additional parameter Input fault control Comment text - Simulation parameters Simulation Group Enable simulation Location Document link 1	pr.JB2_DL_2301. DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI 1 Channel 1 13 12	
Prompt Input module name Card type ID cabinet FBC slot (2-15) IBC number (0-15) Card place (0-15) Channel number (0-7) Minimum pulse Hold time Additional parameter Input fault control Comment text - Simulation parameters Simulation Group Enable simulation Location Document link 1 Document link 2 <	pr.JB2_DI_2301. DI8 2 FBC 3 IBC 2 (Rack 2) 0 Card DI 1 Channel 1 13 12	
Prompt Input module name Card type IO cabinet FBC slot (2-15) BC number (0-15) Card place (0-15) Channel number (0-7) Minimum pulse Hold time Additional parameter Input fault control Comment text - Simulation parameters Simulation Group Enable simulation Location Document link 1 Document link 2	pr.JB2_DI_2301. DB 2 FBC 3 IBC 2 (Rack 2) 0 Card DI 1 Channel 1 13 12 III SIM1 1 1	

5. Change the new application file process area. To change the process area, click Edit and choose Values.



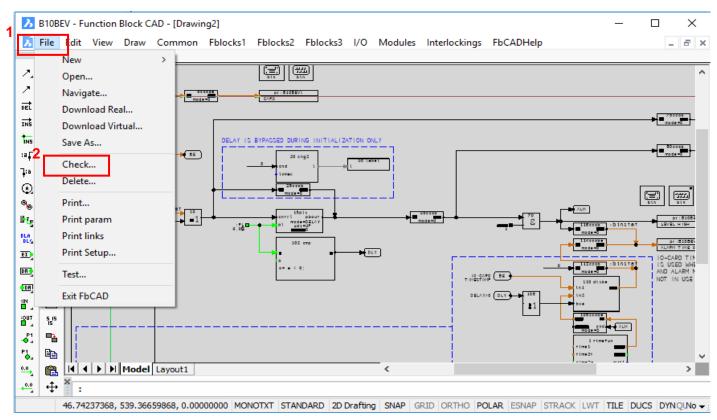
Then, click the department box.



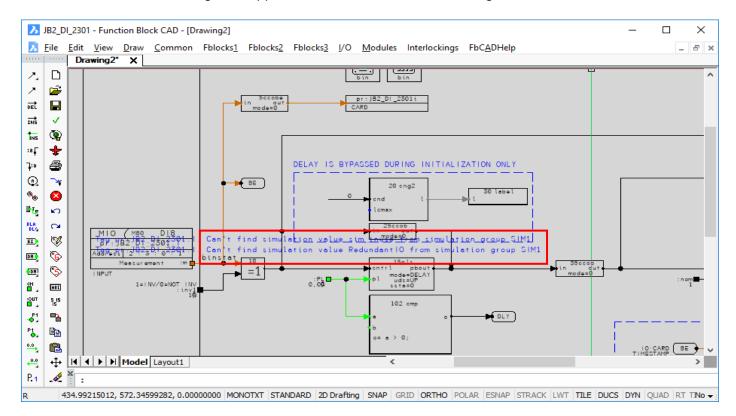
Parameters window will pop up. Change the process area from TRESLIB-BINS to TRAINING1. Then click OK.

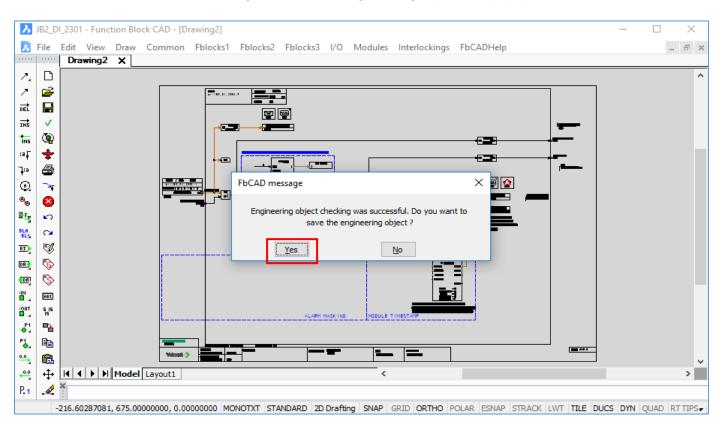
Prompt LOOP TAG LOOP NAME (FIELD 1) LOOP NAME (FIELD 2)	Value
LOOP NAME (FIELD 1)	
	JB2_DI_2301
	JB2 DI CH1
LOOP STATUS	complete
NAME OF PLANNER	B10BEV
DATE OF PLANNING	11-05-01 12:00
NAME OF MODIFIER	treslib
DATE OF MODIFICATION	12-07-02 15:22
PROCESS AREA 1	TRESLIB
PROCESS AREA 2	BINS
PROCESS AREA 3	
PROCESS AREA 4	
Show Formulas Function formula:	Typehelp
+ _	OK Cancel
Editing attributes of -ADMINM	
Editing attributes of -ADMINM	Value
Prompt LOOP TAG	
Prompt .00P TAG .00P NAME (FIELD 1)	
Prompt LOOP TAG LOOP NAME (FIELD 1) LOOP NAME (FIELD 2)	Value JB2_ 1_2301 JB2_ ICH1
Prompt LOOP TAG LOOP NAME (FIELD 1) LOOP NAME (FIELD 2) LOOP STATUS	
Prompt LOOP TAG LOOP NAME (FIELD 1) LOOP NAME (FIELD 2) LOOP STATUS NAME OF PLANNER	Value JB2_ J_2301 JB2 I CH1 comp ete B10B V
Prompt LOOP TAG LOOP NAME (FIELD 1) LOOP NAME (FIELD 2) LOOP STATUS NAME OF PLANNER DATE OF PLANNING	Value JB2_J_2301 JB2 I CH1 comp ete B10B V 11-05 01 12:00
Prompt LOOP TAG LOOP NAME (FIELD 1) LOOP NAME (FIELD 2) LOOP STATUS NAME OF PLANNER DATE OF PLANNING NAME OF MODIFIER	Value JB22301 JB22301 JB212301 JB212301 JB212301 JB212301 JB212301 JB2
Prompt OOP TAG OOP NAME (FIELD 1) OOP NAME (FIELD 2) OOP STATUS VAME OF PLANNER DATE OF PLANNING VAME OF MODIFIER DATE OF MODIFICATION	Value JB2l_2301 JB21200 tresit 12-07-02 15:22
Prompt LOOP TAG LOOP NAME (FIELD 1) LOOP NAME (FIELD 2) LOOP STATUS NAME OF PLANNER DATE OF PLANNING NAME OF MODIFIER DATE OF MODIFICATION PROCESS AREA 1	Value JB22301 JB22301 JB212301 JB212301 JB212301 JB212301 JB212301 JB2
Prompt LOOP TAG LOOP NAME (FIELD 1) LOOP NAME (FIELD 2) LOOP STATUS	Value JB2l_2301 JB21200 tresit 12-07-02 15:22

6. To save the new application, click File and choose Check. Created application must be check in repository before downloaded to avoid any error.



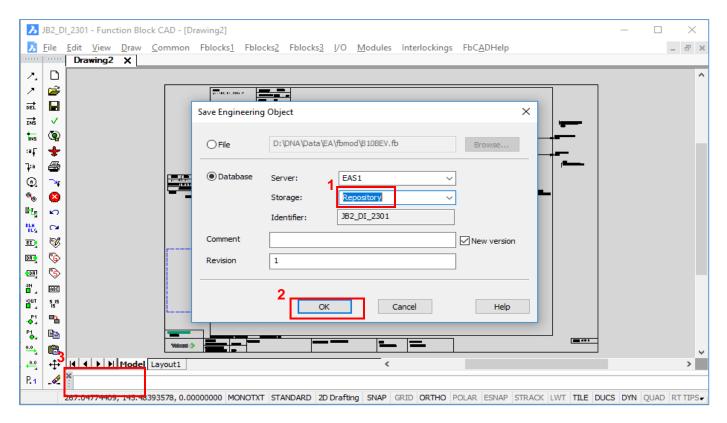
If there is error, a message will appear as shown below and checking is unable.

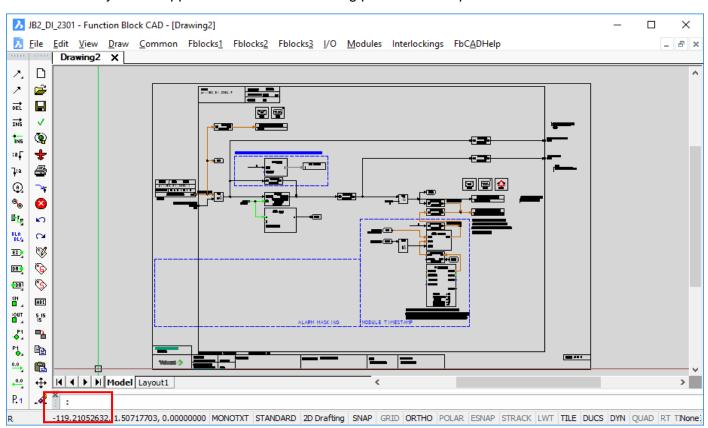




7. If there is no error occur, message to save the engineering object will pop up. Click Yes.

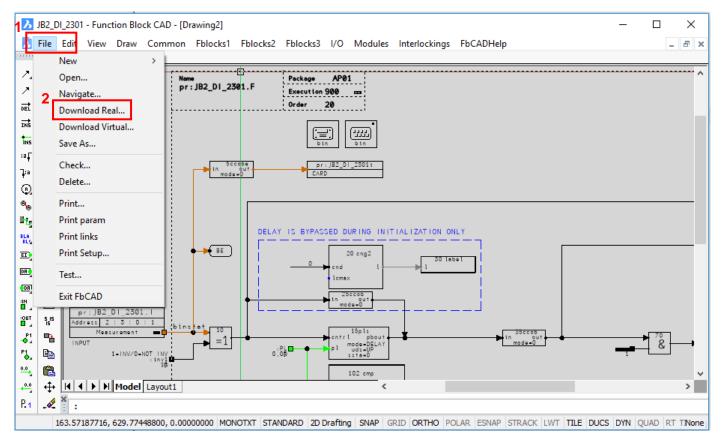
Another window will pop up. Change the storage location from templates to repository. Then, click OK. Wait until the colon symbol to reappear.





The colon symbol reappears to indicate the saving process is completed.

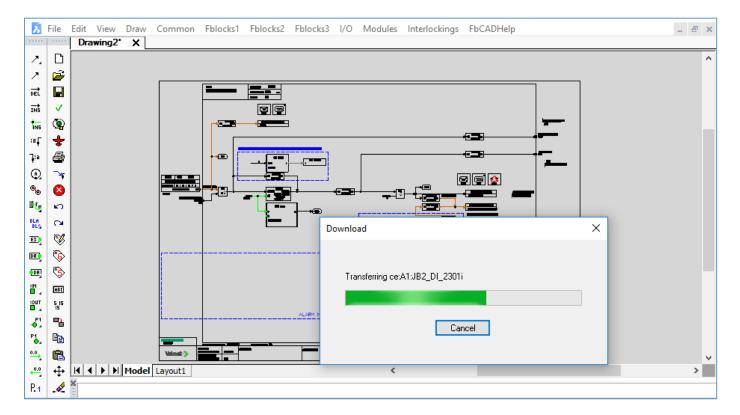
8. Then download the file.



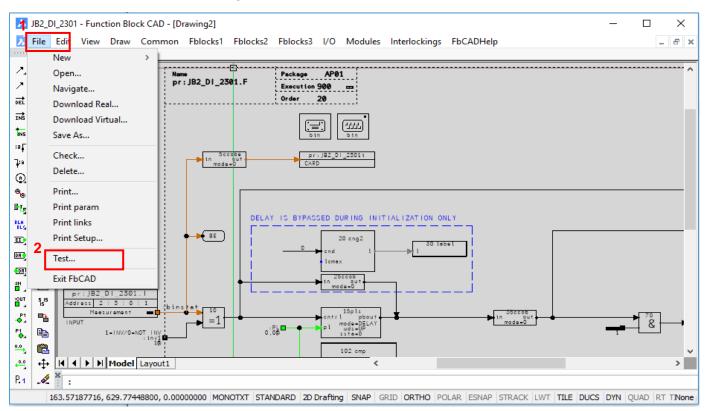
አ	JB2_D	_2301 - Funct	💓 Modular Download - Real Runtime Environment —		×	-	
Ъ	File	Edit View	Command				_ 8 ×
		Drawing2*	O Add O Accept to backup				
Z_{s}	D		Replace O Restore from backup				^
2	2		O Update O Preprocess				
DEL			O Delete O Show versions				
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зĘ	*						
٦a	4		JB2_DI_2301 JB2 DI CH1 pr:JB2_DI_2301.F JB2 DI CH1 AP01 JB2_DI_2301 JB2 DI CH1 ce:A1:JB2_DI_2301i A1				
0	~		JB2_DI_2301 JB2 DI CH1 CE:A1:JB2_DI_2301 A1				
•			JB2_DI_2301_JB2_DI_CH1 od:A1:JB2_DI_2301i A10				
	5		JB2 DI 2301 JB2 DI CH1 od:A1:JB2 DI 2301 A10				
			JB2_DI_2301 JB2 DI CH1 al:A1:JB2_DI_2301.F A1A1				
BLA BLS			JB2_DI_2301 JB2 DI CH1 pi:JB2_DI_2301.I INPUT AP01		~		
ED.	8		History functions:				
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P. 1		×	OK Cancel Update Prev	view			
R	83	0.00000000, 1				CS DYN	QUAD RT TIPS) -

A download window will pop up. Click OK.

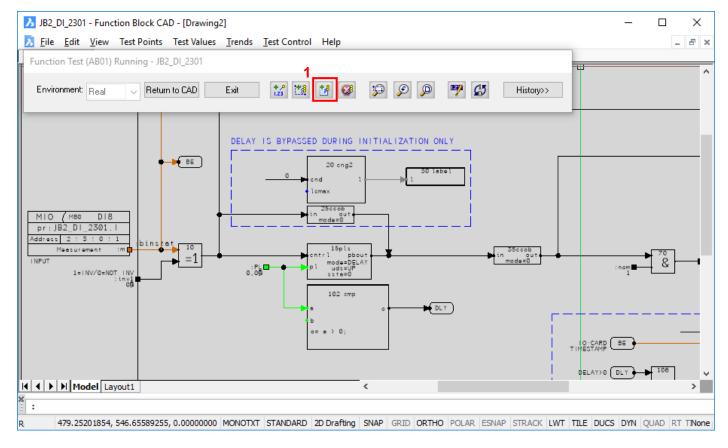
Download is processing. The colon symbol at the bottom will reappears when the download process is completed.



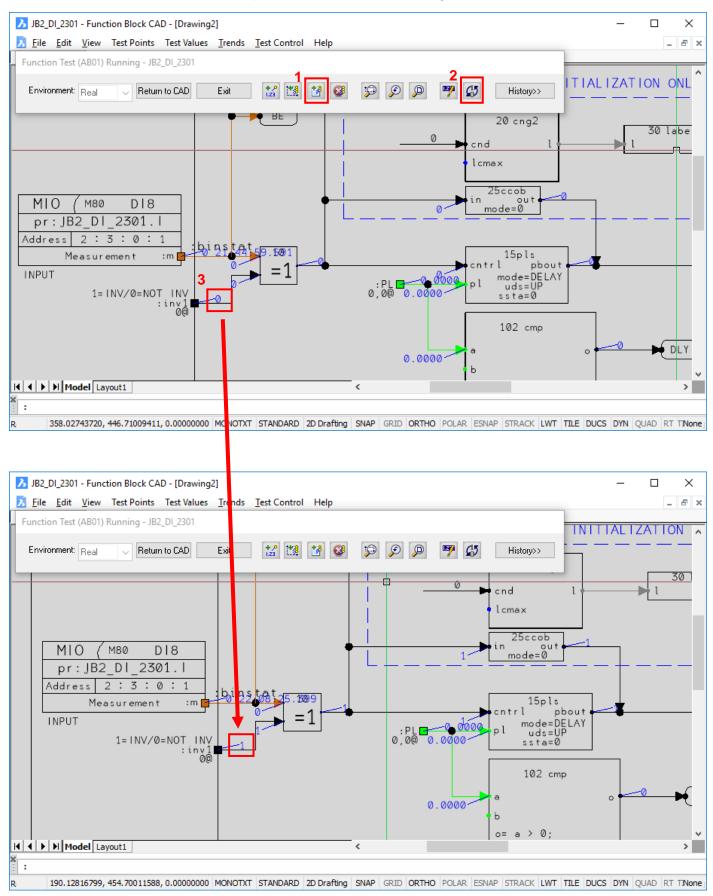
9. To test the control application, click File and select Test. The test function shows function block diagram with live values from the running environment.



New function toolbar will appear. Insert all test point to current page by clicking number 1 tool.



All test points will appear on the current page as shown below. To change the binary test point, click tool number 2. Then click the test point. The value will be changed into 1.



Test point = 1 indicates alarm is triggered. Selects the tool below to acknowledge alarm.

VA102/#arelabel/Control Panel UM 1 UM 5 UM 25 UX 5		-
UM 2 Alarm Browser	□ 06:08:25:399 ▲▲▲▲ JB2_DI_2301 JB2 DI CH1	LEVEL HIGH
UM 4	Acknowledge alarm	Valmet

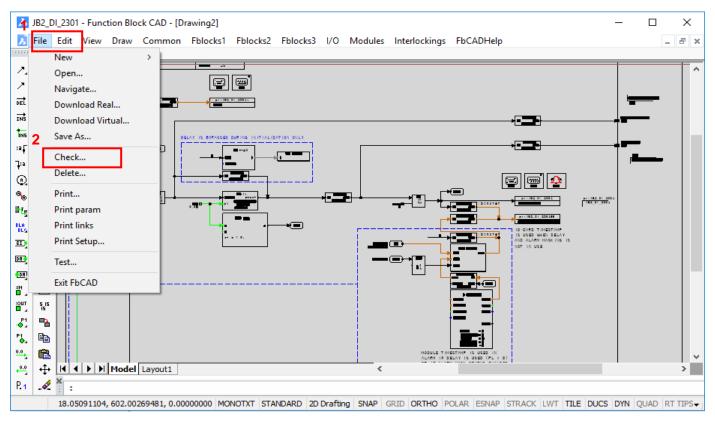
10. Test with inversion.

Ъ	B2_0	01_230	1 - Function Blo	ock CAD - [Di	rawing2]								_	
	Fie	Edit	View Draw Undo	Common	Fblocks1	Fblocks2	Fblocks3	1/0	Modules	Interlockings	FbCADHelp			_ & ×
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BLA BLO EI	~ ≫		Paste from clip Erase	board		• • • • •						ID-CARD TIMESTAMP IS USED WHEN DELAY AND ALARM MASKING IS		
DR	6		Erase Dot Stretch						_	═╸ ═╺╬ <mark>╗</mark> ┝─╴	╡ <mark>╺╴┈</mark> ╺╎─┘	NOT IN USE		
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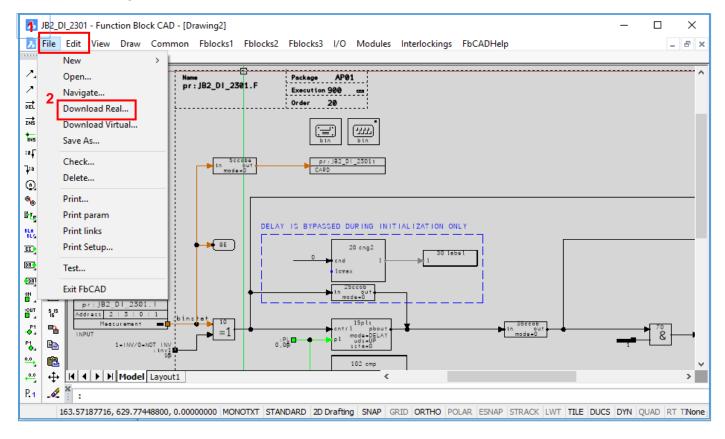
11. Change the invert card signal into 1 to indicate that there is inversion for the input system.

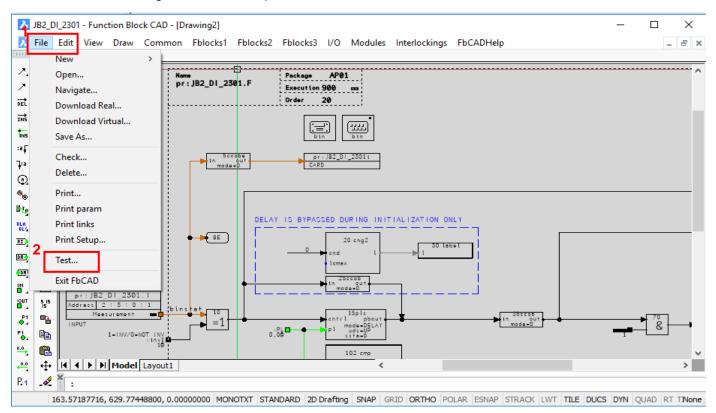
Identifier	Prompt	Value
DUMMY1)	LOOP	
AG)	TAG JB2_DL23	01
EMPLATE)	TEMPLATE B10BEV	
IAME20)	NAME20 JB2 DI CH	
ACKAGE)	PACKAGE AP01 EXE 900	
XE) DRDER)	EXE 900 EXECUTION ORDER 20	
TRLROOM)	CTRROOM A1	
ALGROUP)	ALGROUP 11	
ALPRI)	ALARM PRIORITY 700	
SDID_1)	GDID_1	
IAME14)	NAME14 BINEV	
IAME40_1)	NAME40_1 JB2 DI CH	
IAME40_2)	NAME40_2	
DESCR)	PATH TO FUNC DESCRIPTION	
SIMULATION)	CARDS ARE SIMULATED 0 Masking is used (0=No/1=yes) 0	
nasking_used) nask_inv)	Masking is used (0=No/1=yes) 0 Invert masking 1=inv/0=not inv 0	
nask_delay)	Masking delay 15.0	
nasktag_1)	Tag of masking loop #	
nasktext_1)	Text of masking loop	
DTEXT0)	OTEXT0 OFF	
DTEXT1)	OTEXT1 ON	
I)	ALM(0=,1=ALM,2=MSG) 1	
ALTEXT)	ALM/MSG TEXT (15char) LEVEL HIG	H
LDELAY)	ALARM AND INDICATION DELAY	
ARD_INV)	INVERT CARD SIGNAL 1=INV/0=NOT INV	
DTEXT_1)	ODTEXT_1 ODTAG_2	
DTAG_2) DTEXT_2)	ODIAG_2 ODTEXT_2	
DTAG_3)	ODTAG_3	
DTEXT_3)	ODTEXT_3	
DTAG_4)	ODTAG_4	
DDTEXT_4)	ODTEXT_4	
DTAG_5)	ODTAG_5	
DTEXT_5)	ODTEXT_5	
DUMMY2)		24
EVICETAG1)	DEVICETAG1 J2_DL23	01
ow Formulas Function	n formula: Typehelp	
	OK Cancel	
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	ESIGNMEMBERS	Value
Editing attributes ofDB Identifier DUMMY1)	ESIGNMEMBERS	
Editing attributes ofDE Identifier DUMMY(1) AG)	ESIGNMEMBERS Prompt TAG 32_DI_23	
Editing attributes ofDI Identifier JUMMY1) AG) EMPLATE)	ESIGNMEMBERS	01
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Editing attributes ofDE Identifier DUMMY1) AG) TEMPLATE) IAME20) AACKAGE) XE)	ESIGNMEMBERS	01
Editing attributes ofDf Identifier JUMMY1) AG) TEMPLATE) JAME20) ACKAGE) XE) DRDER) TRLROOM)	ESIGNMEMBERS LOOP	01
Editing attributes ofDE Identifier JUMMY1) AG) TEMPLATE) JAGCKAGE) VACKAGE) XE) SRDER) STRLROOM) ALGROUP) ALPRI) BJD_1)	ESIGNMEMBERS ESIGNMEMBERS Comparison Frompt Comparison Frompt Comparison Frompt Frompt F	01
Editing attributes ofDE Identifier DUMMY1) AG) EMPLATE) IAME20) ACKAGE) XE) RDER) TRLROOM) ALGROUP) ALGROUP) ALGROUP) ALGROUP) IAME14)	ESIGNMEMBERS	01
Editing attributes ofDE Identifier DUMMY1) AG) EMPLATE) IAME20) ACKAGE) XE) RDER) TRLROOM) ALGROUP) LLPRI) DDD_1) IAME14) IAME40_1)	ESIGNMEMBERS	01
Editing attributes ofDE Identifier UUMMY1) AG) EMPLATE) AAME20) ACKAGE) XE) NRDER) TRLROOM) LIGROUP) LIGROUP) LIGROUP) LIGRUP1) AME40_1) IAME40_2)	ESIGNMEMBERS	01
Editing attributes ofDB Identifier UMMY1) AG) EMPLATE) AME20) ACKAGE) XE) RDER) TRLROOM) LGROUP) LGROUP) LGROUP) LGROUP) LARI DID_1) AME40_1) AME40_2) DESCR)	ESIGNMEMBERS	01
Editing attributes ofDE Identifier UMMY1) AG) EMPLATE) AAME20) ACKAGE) XE) IRDER) TRLROOM) LGROUP) LJCRUP) DID_1) AME14) AME14) AME40_1) AME40_2) DESCR) IMULATION)	ESIGNMEMBERS ESIGNMEMBERS COOP TAG CAG S2_DI_23 TAG S2_DI_23 TEMPLATE S2_DI_24 TEMPLATE S2_DI	01
Editing attributes ofDE Identifier UMMY(1) AG) EMPLATE) AAKE20) ACKAGE) XE) NRDER) TRLROOM) LIGROUP) LIGROUP) LIGROUP) LIGROUP) AME40_1) IAME40_1) IAME40_2) DESCR) IMULATION) Tasking_used)	Prompt Image: State	01
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Editing attributes ofDE Identifier UMMY1) AG) EMPLATE) IAME20) ACKAGE) XE) SRDER) TRLROOM) LIGROUP) LLQROUP) LLPRI) DDD_1) IAME40_2) DDD_1) IAME40_2) DESCR) MULATION) nask_delay)	ESIGNMEMBERS ESIGNMEMBERS	01
Editing attributes ofDB Identifier VUMMY1) AG) EMPLATE) AACKAGE) VACKAGE) XE) PRDER) CTRLROOM) LIGROUP) LIGROUP) LIGROUP) LIGROUP) ALPRI) SDID_1) IAME40_1) IAME40_1) IAME40_2) DESCR) SMULATION) nasking_used) naski_delay) nasktag_1)	ESIGNMEMBERS ESIGNMEMBERS COOP	01
Editing attributes ofDB Identifier DUMMY1) AG) EMPLATE) IAME20) ACKAGE) XE) DRDER) TRLROOM) LLGROUP) ALPRI) DID_1) IAME14) IAME14) IAME14) IAME14) IAME40_1) IAME40_2) DESCR) IMULATION) hasking_used) hask_delay) hasktag_1) hasktag_1) hasktag_1) hasktag_1)	ESIGNMEMBERS ESIGNMEMBERS	01
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Editing attributes ofDB Identifier DUMMY1) (AG) EMPLATE) IAME20) ACKAGE) XE) DRDER) TTRLROOM) ALGROUP) ALGROUP) ALGROUP) ALGRUP) SDID_1) IAME40_1) IAME40_2) DESCR) SIMULATION) nasking_used) nask_delay) nask_delay) nasktag_1) nasktag_1) nasktag_1) nasktag_1) TEXTI) DTEXTI)	ESIGNMEMBERS	
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Editing attributes ofDB Identifier VUMMY1) AG) EMPLATE) AAKAGE) ACKAGE) ACKAGE) XE) RDER) TRLROOM) LGROUP) LUPRI) SDID_1) IAME40_1) IAME40_1) IAME40_2) DESCR) IMULATION) masking_used) mask_delay) masktext_1) DTEXT0) TTEXT1) I) LTEXTT) I) DELAY)	ESIGNMEMBERS	
Editing attributes ofDB Identifier DUMMY1) AG) EMPLATE) IAME20) ACKAGE) XE) DRDER) TTRLROOM) ALGROUP)	Prompt 32_DL23 TAG 32_DL23 TEMPLATE 106EV NAME20 32_DL23 TEMPLATE 106EV PACKAGE P01 EXE 00 CTR.ROOM 1 ALARM PRIORITY 00 GDD_1 NAME40_1 NAME40_1 INEV INVET masking lag	
Editing attributes ofDB Identifier UUMMY1) AG) EMPLATE) IAME20) ACKAGE) XE) PRDER) TRLROOM) ALGROUP) LUPRI) DDD_1) IAME40_2) DDD_1) IAME40_2) DESCR) IMULATION) nask_delay) nask_delay) nasktag_1) nask_delay) nasktag_1) nasktag_1) TTEXTO) UDELAY) XERD_INV)	ESIGNMEMBERS	
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Editing attributes ofDB Identifier DUMMY1) AG) EMPLATE) IAME20) ACKAGE) XE) DRDER) TTRLROOM) ALGROUP)	ESIGNMEMBERS	
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Editing attributes ofDB Identifier UUMMY1) AG) EMPLATE) AACKAGE) XE) PRDER) TRLROOM ACKAGE) XE) PRDER) TRLROOM ACKAGE) XE) PRDER) TRLROOM ACKAGE) XE) PRDER) TRLROOM ACKAGE) ACKAGE) ACKAGE) ACKAGE) ACKAGE) DDD TRLTON TRLTON TRLTON TASKIG_USE ACKAGE) TRLTON TASKIG_USE ACKAGE) TRLTON TRLTO	ESIGNMEMBERS	01
Editing attributes ofDB Identifier UUMMY1) AG) EMPLATE) IAME20) ACKAGE) XE) RDER) TRLROOM) LGROUP) LURN) DDD_1) IAME40_2) DDD_1) IAME40_2) DDESCR) MULATION) Task_delay) Task_delay) TREXT0) TTEXT10) TTEXT10) TTEXT11 I) LTEXT1 I) DTAG_3) DTAG_3) DTAG_5) DTEXT_3) DTAG_5) DTEXT_5) UMMY2) EVICETAG1)	ESIGNMEMBERS	01

12. Check.



13. Download. When the download process is completed, the alarm will automatically trigger as the application signal is inverted.





14. To view the running environment, open the test function toolbar.

