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**Program information**

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Author : Author

Project name : Title

Version : 0.0

Module : SR2B121BD

Cycle time in the module : 7 x 2 ms

WATCHDOG action : Inactive

Type of Hardware Input Filtering : Slow (3ms)

☐ Zx keys inactive

Date format : dd/mm/yyyy

☐ Daylight Saving Time change activated

Zone : Europe

Change to Daylight Saving Time : March, Last Sunday

Return to winter time : October, Last Sunday



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Program diagram

No	Contact 1	Contact 2	Contact 3	Contact 4	Contact 5	Coil	Comment
001	I1	I2				SM2	Set start conditon latch
	start pb	stop pb				( )	
						start latch condition	
002	I2					RM2	reset start conditon latch
	stop pb					( )	
						start latch condition	
003	M2	IB				[ Q3	select reactor 1 maintained switch
	start latch condition	reactor select 1				( )	
						valve1	
004	M2	IC				[ Q4	select reactor 2 maintained switch
	start latch condition	reactor select 2				( )	
						valve2	
005	Q3	I3	m1			[ Q1	set conditons to run pump1 with flow fault detection
	valve1	prox v1	flow fault			( )	
		I4	m1			pump1	
006	Q4	I4	m1			[ Q2	set conditons to run pump2 with flow fault conditions
	valve2	proxv2	flow fault			( )	
		iD				pump2	
007	Q1					TT1	set conditons flow flow fault timer 10 sec latching
	pump1	flow switch				( )	
	Q2					flow detect timer	
008	pump2						
009	T1					SM1	flow fault activation, set flow fault register
	flow detect timer					( )	
						flow fault	
010	I1	I2				RM1	start and stop momentary flow fault reset procedure
	start pb	stop pb				( )	
						flow fault	



## Physical inputs

No	Symbol	Function	Lock	Parameters	Location of (L/C)	Comment
I1		Discrete inputs	---	No parameters	(1/1) (10/1)	start pb
I2		Discrete inputs	---	No parameters	(1/2) (2/1) (10/3)	stop pb
I3		Discrete inputs	---	No parameters	(5/3)	prox v1
I4		Discrete inputs	---	No parameters	(6/3)	proxv2
IB		Discrete inputs	---	No parameters	(3/2)	reactor select 1
IC		Discrete inputs	---	No parameters	(4/2)	reactor select 2
ID		Discrete inputs	---	No parameters	(7/3)	flow switch

## Physical outputs

No	Symbol	Function	Latching	Location of (L/C)	Comment
Q1		Discrete outputs	No	(5/6) (7/1)	pump1
Q2		Discrete outputs	No	(6/6) (8/1)	pump2
Q3		Discrete outputs	No	(3/6) (5/1)	valve1
Q4		Discrete outputs	No	(4/6) (6/1)	valve2

## Configurable functions

No	Symbol	Function	Lock	Latching	Parameters	Location of (L/C)	Comment
M1		Auxiliary relays	---	Yes	No parameters	(5/4) (6/4) (9/6) (10/6)	flow fault
M2		Auxiliary relays	---	Yes	No parameters	(1/6) (2/6) (3/1) (4/1)	start latch condition
T1		Timers	No	No	See details below	(7/6) (9/1)	flow detect timer

### Timer

T1		Timers	flow detect timer
Function A: Active, control held down Time: 010.0 s			