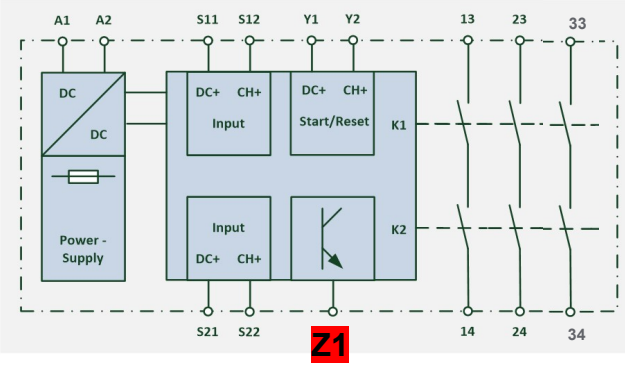
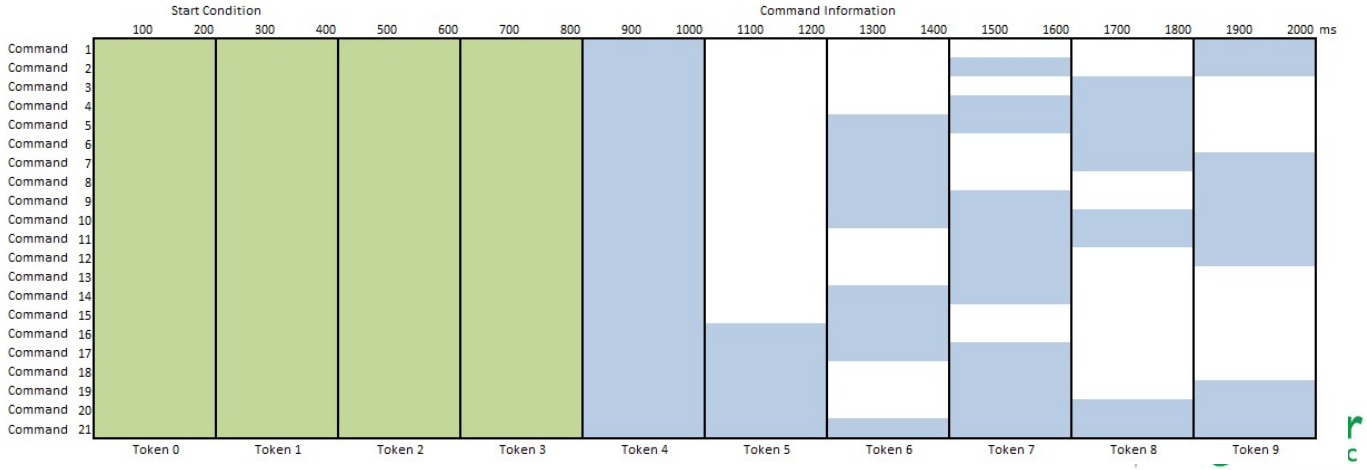
Status Output Z1





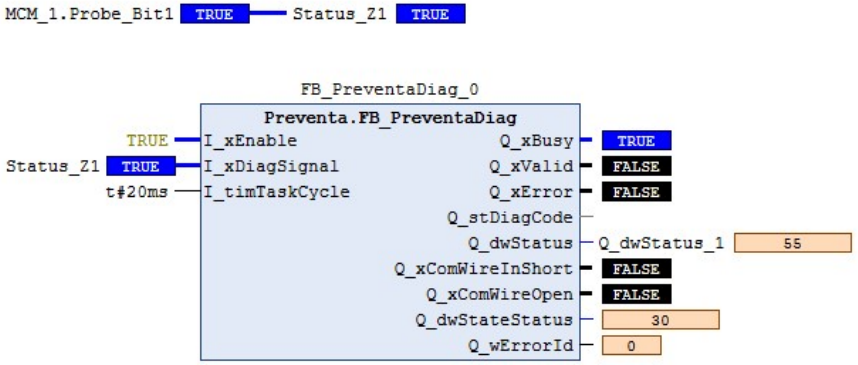
Status Output Z1

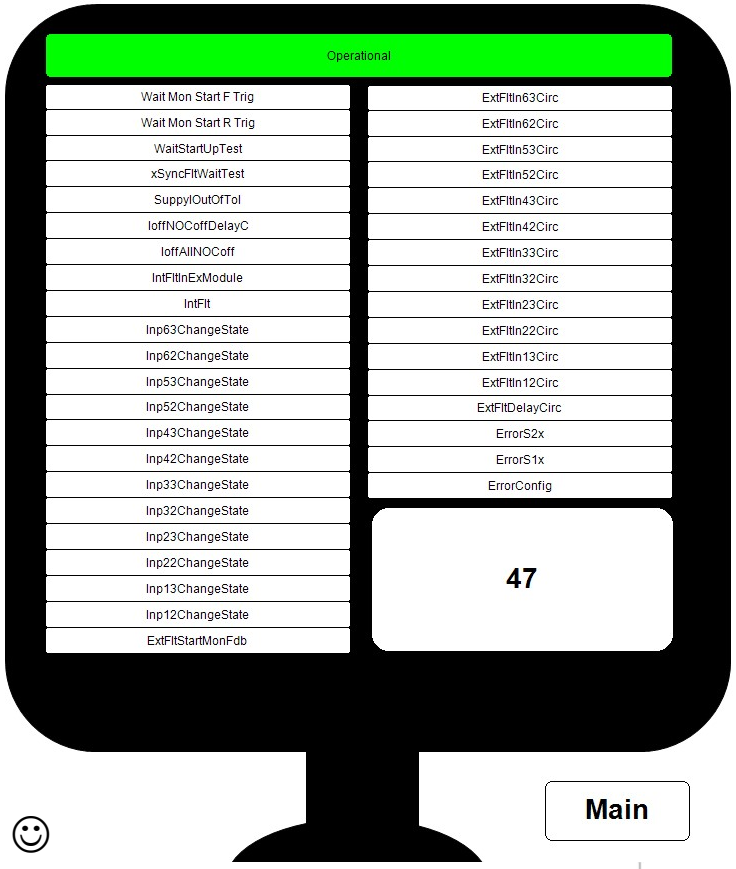
CMD	Token										Command Description
	0	1	2	3	4	5	6	7	8	9	
42	1	1	1	1	1	1	1	1	1	1	Auxiliary Output shorted to power-supply
41	0	0	1	0	1	0	1	1	1	1	Supply OK, everything OK, Safety outputs ON ➔ Module is in operational state only here.
40	0	0	1	0	1	0	1	1	1	0	Supply OK, inputs OK, start pressed, waiting for falling edge for monitored start.
39	0	0	1	0	1	0	1	0	1	0	Supply OK, inputs OK, waiting for rising edge for automatic/manual or monitored start.
38	0	0	1	0	1	0	1	0	1	1	Supply OK, waiting for start-up test.
37	0	0	1	0	1	0	1	0	0	1	Supply OK, input 63 needs to change the state.
36	0	0	1	0	1	0	1	0	0	0	Supply OK, input 62 needs to change the state. In case of antivalent, inputs 6x need to change the state.
35	0	0	1	0	1	1	1	0	0	0	Supply OK, input 53 needs to change the state.
34	0	0	1	0	1	1	1	0	0	1	Supply OK, input 52 needs to change the state. In case of antivalent, inputs 5x need to change the state.
33	0	0	1	0	1	1	1	0	1	1	Supply OK, input 43 needs to change the state.
32	0	0	1	0	1	1	1	0	1	0	Supply OK, input 42 needs to change the state. In case of antivalent, inputs 4x need to change the state.
31	0	0	1	0	1	1	1	1	1	0	Supply OK, input 33 needs to change the state.
30	0	0	1	0	1	1	1	1	1	1	Supply OK, input 32 needs to change the state. In case of antivalent, inputs 3x need to change the state.
29	0	0	1	0	1	1	1	1	0	1	Supply OK, input 23 needs to change the state.
28	0	0	1	0	1	1	1	1	0	0	Supply OK, input 22 needs to change the state. In case of antivalent, inputs 2x need to change the state.
27	0	0	1	0	1	1	0	1	0	0	Supply OK, input 13 needs to change the state.
26	0	0	1	0	1	1	0	1	0	1	Supply OK, input 12 needs to change the state. In case of antivalent, inputs 1x need to change the state.
25	0	0	1	0	1	1	0	1	1	1	Supply OK, all inputs off, all NOC off.
24	0	0	1	0	1	1	0	1	1	0	Supply OK, all immediate NOC off, delayed NOC still closed.
23	0	0	1	0	1	0	0	1	1	1	Supply OK, synchronization failure. Testing of input device on going.
22	0	0	1	0	1	1	0	0	1	1	Supply OK, synchronization failure. Waiting for testing of input device.
21	0	0	1	0	1	0	0	0	0	0	Supply OK, antivalent error S2x.
20	0	0	1	0	1	0	0	1	1	0	Supply OK, antivalent error S1x.
19	0	0	1	0	1	0	0	0	1	1	Supply OK, external error in interrupting elapsing time delay circuitry.
18	0	0	1	0	1	1	0	0	0	0	Supply OK, external error in start-feedback circuitry.
17	0	0	1	0	0	1	1	1	0	0	Supply OK, external error in input 63 circuitry.
16	0	0	1	0	0	1	1	1	0	1	Supply OK, external error in input 62 circuitry.
15	0	0	1	0	0	1	1	1	1	1	Supply OK, external error in input 53 circuitry.
14	0	0	1	0	0	1	1	1	1	0	Supply OK, external error in input 52 circuitry.
13	0	0	1	0	0	1	1	0	1	0	Supply OK, external error in input 43 circuitry.
12	0	0	1	0	0	1	1	0	1	1	Supply OK, external error in input 42 circuitry.
11	0	0	1	0	1	0	1	1	0	0	Supply OK, external error in input 33 circuitry.
10	0	0	1	0	0	1	1	0	0	0	Supply OK, external error in input 32 circuitry.
9	0	0	1	0	0	0	1	1	1	0	Supply OK, external error in input 23 circuitry.
8	0	0	1	0	0	0	1	1	1	1	Supply OK, external error in input 22 circuitry.
7	0	0	1	0	0	0	1	1	0	1	Supply OK, external error in input 13 circuitry.
6	0	0	1	0	0	0	1	1	0	0	Supply OK, external error in input 12 circuitry.
5	0	0	1	0	0	0	0	1	1	1	Supply OK, failure in configuration.
4	0	0	1	0	0	0	0	1	1	0	Supply OK, internal error in expansion module. If persists after reboot, change the module.
3	0	0	1	0	0	0	0	0	1	1	Supply OK, internal error. If persists after reboot, change the module.
2	0	0	1	0	1	0	1	1	0	1	Supply out of tolerance, only µC and diagnostic output somewhat functional.
1	0	0	0	0	0	0	0	0	0	0	No power-supply

Status Output Z1 Function Block for SoMachine

Name	Datentyp	Geerbt von	Adresse	Initialwert	Kommentar
I_xEnable	BOOL				Enable function block; diagnostic sequence detection being executed continuously.
I_xDiagSignal	BOOL				Input for binary sequence from the Preventa Safety Module output Z1.
I_timTaskCycle	TIME				Currently configured task cycle time in [ms].
Q_xBusy	BOOL				FB Status output, the diagnostic code detection is in progress.
Q_xValid	BOOL				FB Status output, a diagnostic code has been detected successfully.
Q_xError	BOOL				FB Status output, an error has occurred.
Q_stDiagCode	ST_DiagCodes				Data structure containing a bit for each diagnostic code of the Preventa safety module
Q_dwStatus	DWORD				Contains the last detected bit sequence.
Q_xComWireInShort	BOOL				Status output indicating a short circuit in the Preventa Safety Module.
Q_xComWireOpen	BOOL				Status output indicating the wire is not connected to the Preventa Safety Module or it is not powered on.
Q_dwStateStatus	DWORD				FB Status output, current state of the internal state machine.
Q_wErrorId	WORD				FB status output, contains an error code for more detailed information if an error has been detected.

Test FB with Webvisu





Optokoppler from Customer to Support
Lamp → Smartphone → LDR →PLC with FB ☺