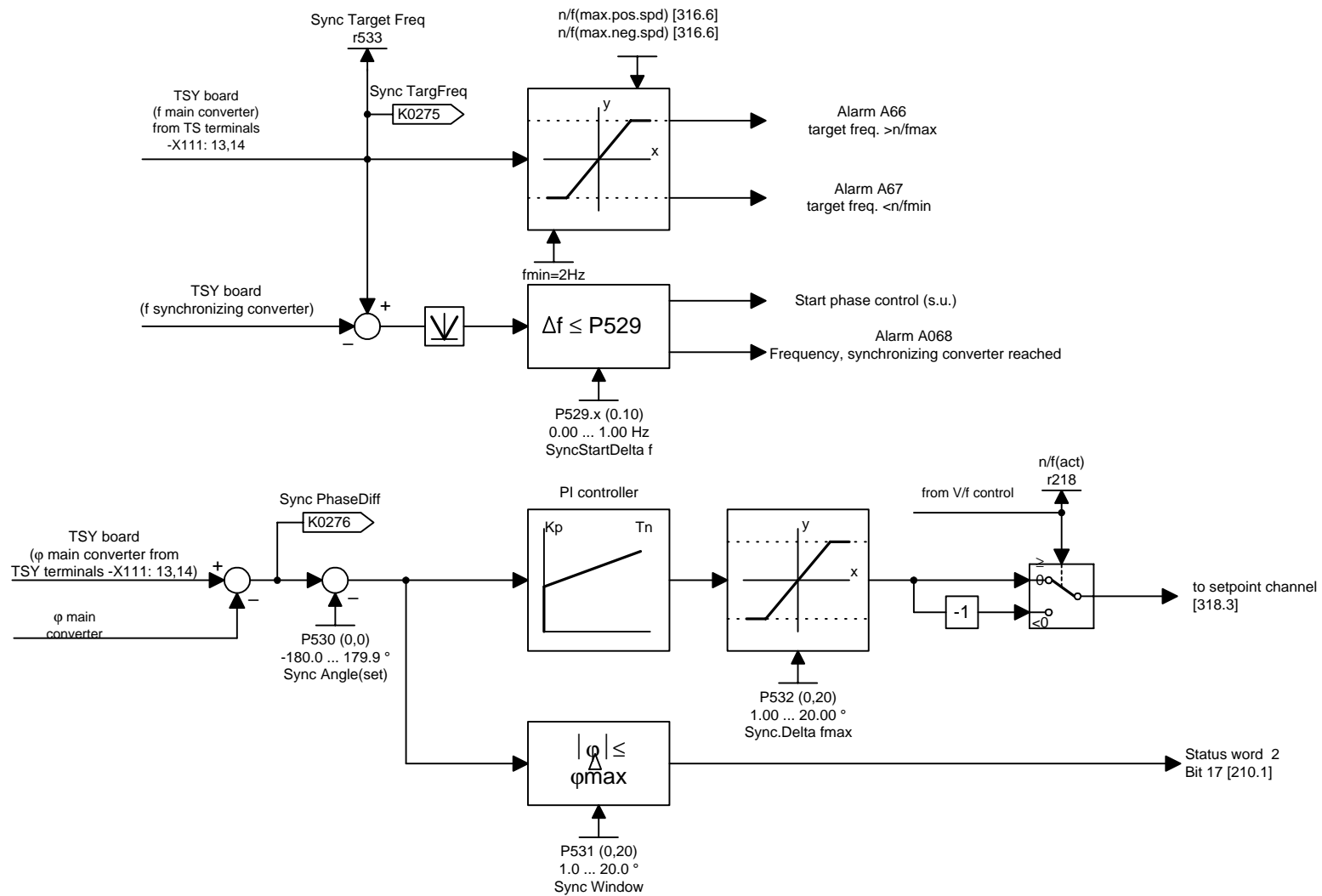
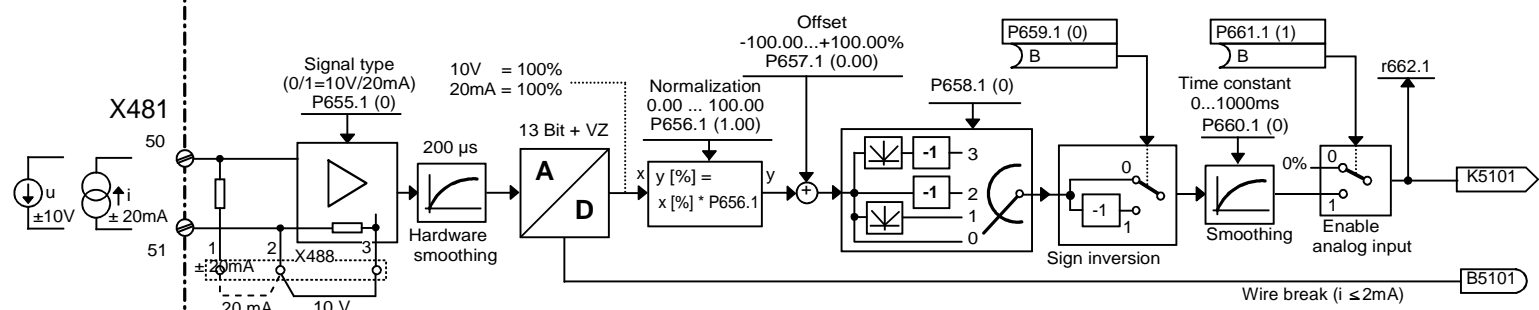


1	2	3	4	5	6	7	8
TSY board					fp_vc_X01_e.vsd	Function diagram	
					31.01.98	MASTERDRIVES VC	
- X01 -							

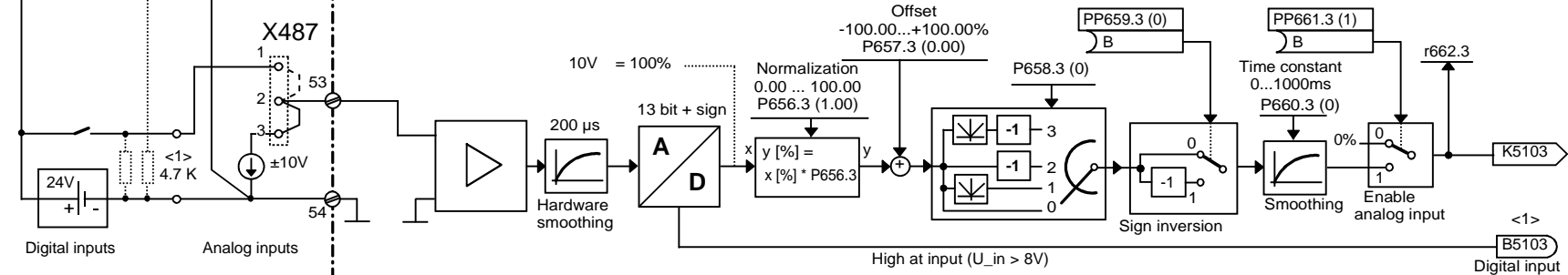
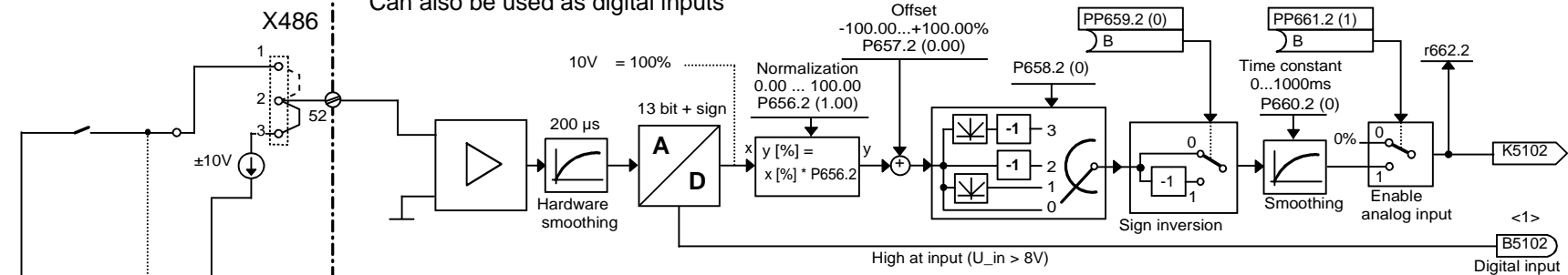


1	2	3	4	5	6	7	8
TSY board					fp_vc_X02_e.vsd	Function diagram	
Synchronizing status: Phase control and frequency measurement					31.01.98	MASTERDRIVES VC	
							- X02 -

**Analog input (differential input)** (U953.01=)



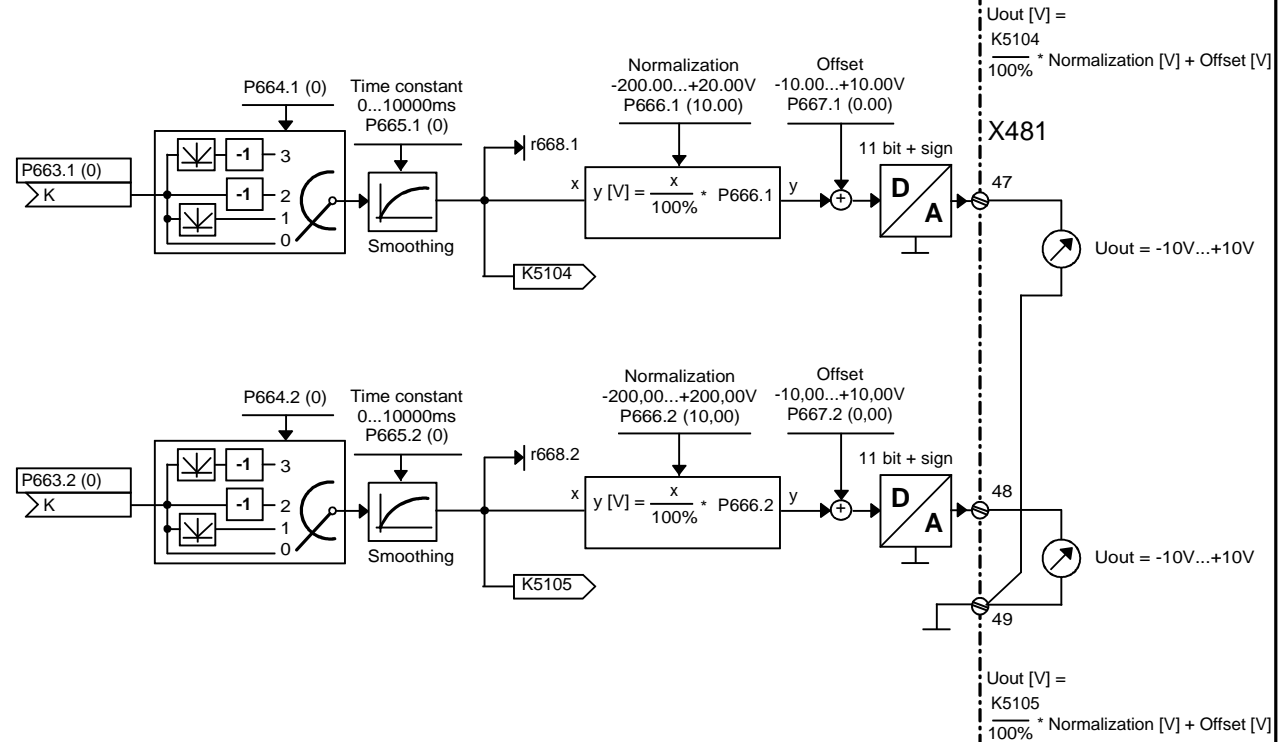
**Analog inputs (single-ended)**  
Can also be used as digital inputs (U953.02=)

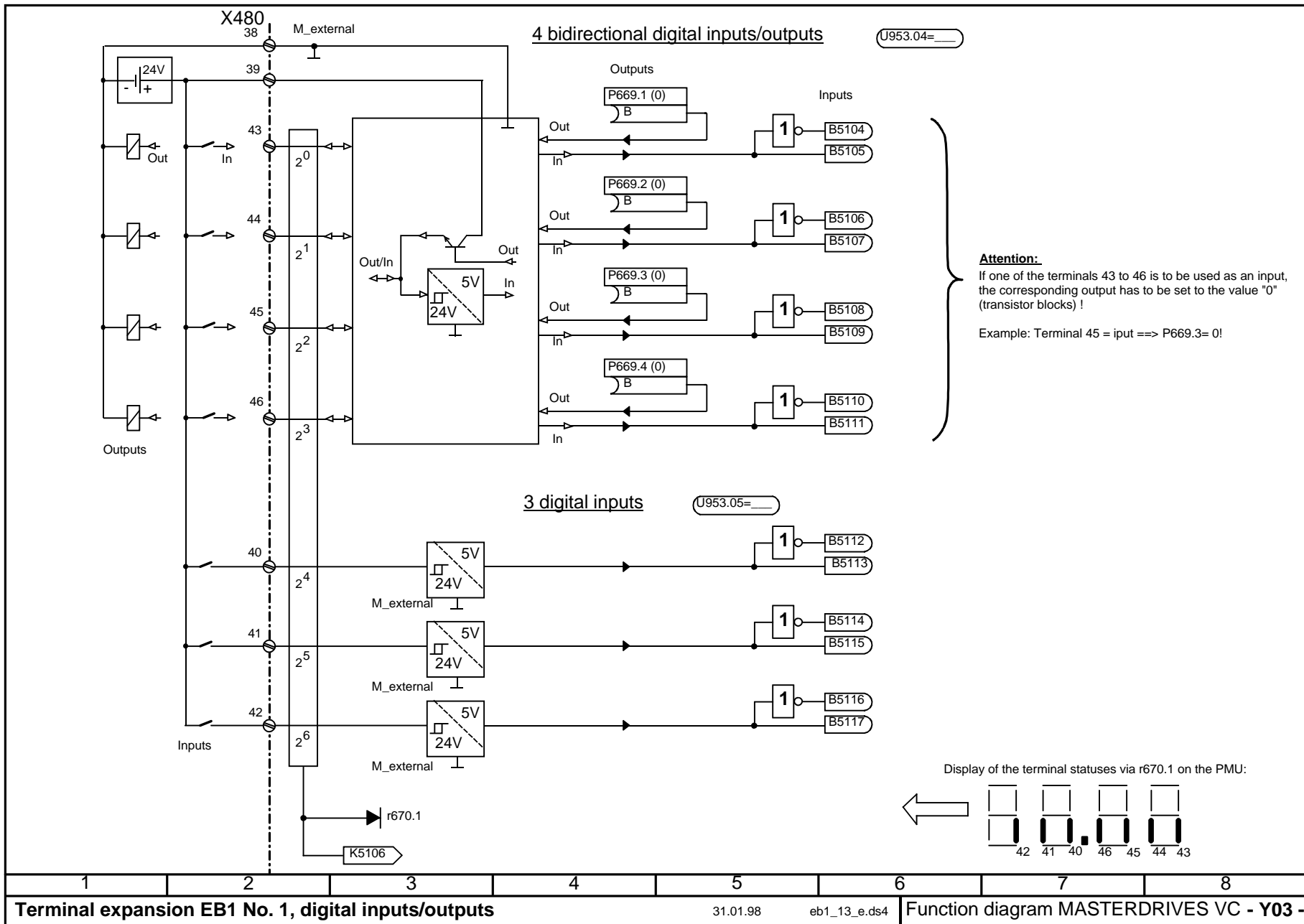


<1> **Attention:** The input resistance at terminal 53/54 is approx. 40 kOhm. If it is used as a digital input, it is necessary in some cases to connect an external loading resistor of approx. 4.7 kOhm downstream of the connected signal source, e.g. on some PLC digital outputs or when connecting switching contacts, in order to ensure the minimum load current of approx. 5 mA required for permanently reliable contacting.

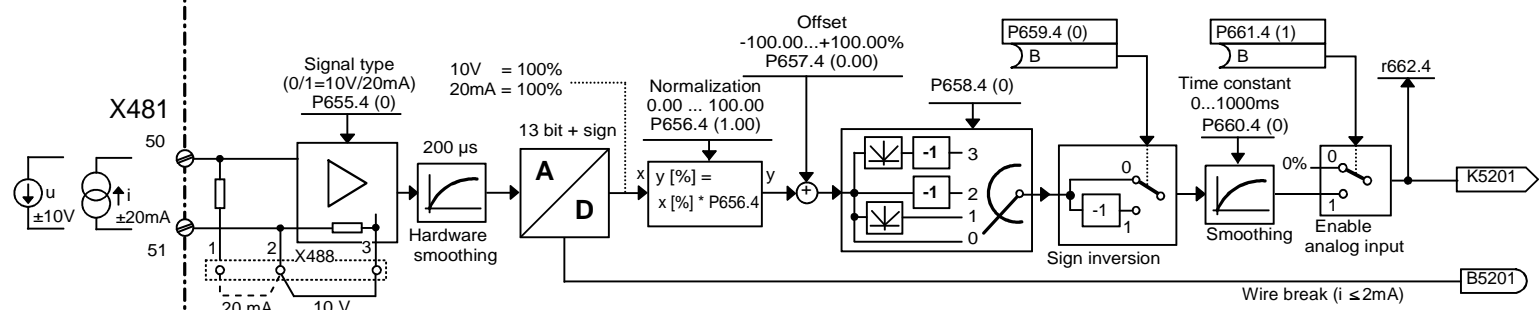
Analog outputs

U953.03=

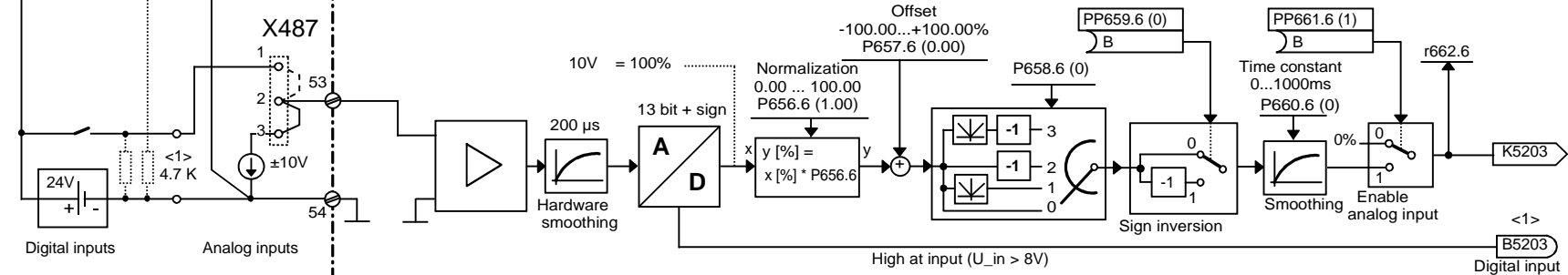
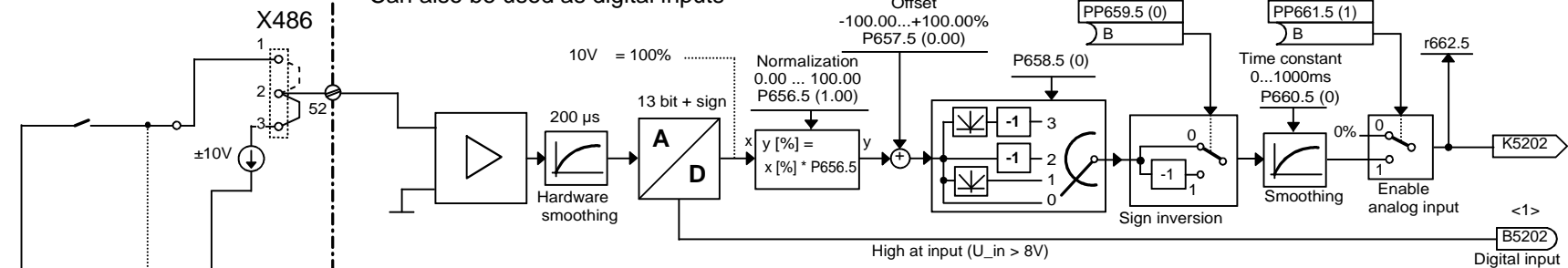




**Analog input (differential input)** (U953.06=)



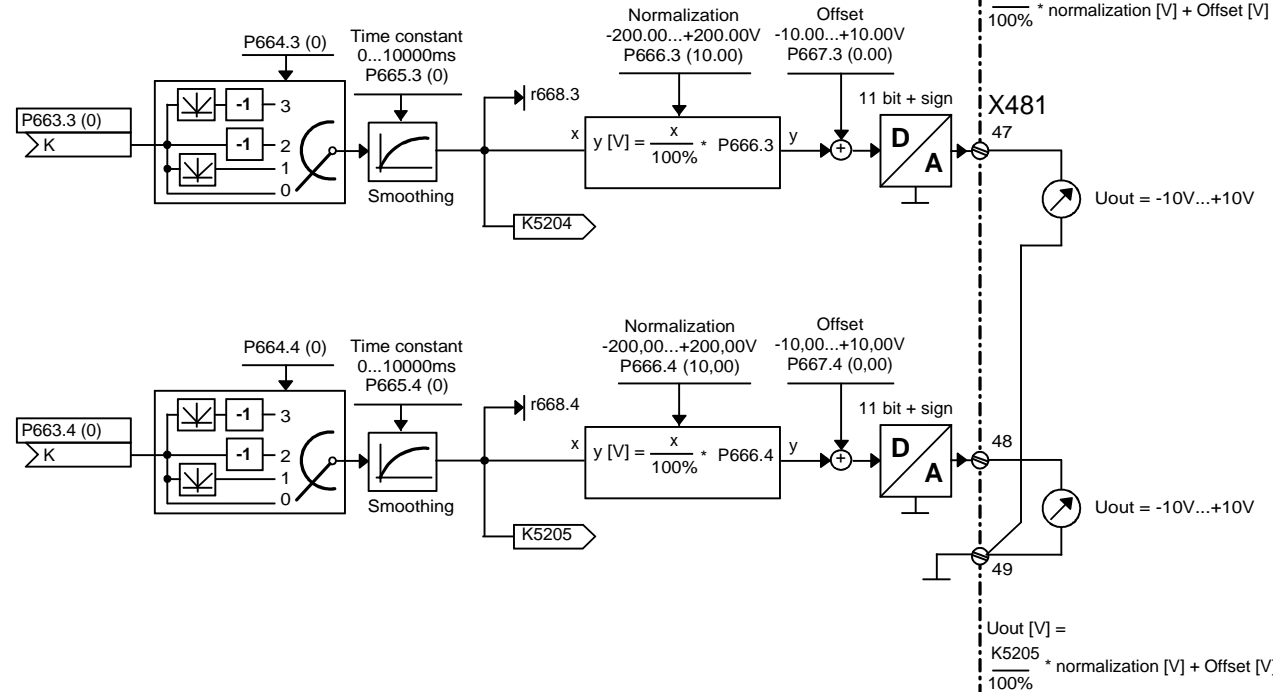
**Analog inputs (single-ended)**  
Can also be used as digital inputs (U953.07=)

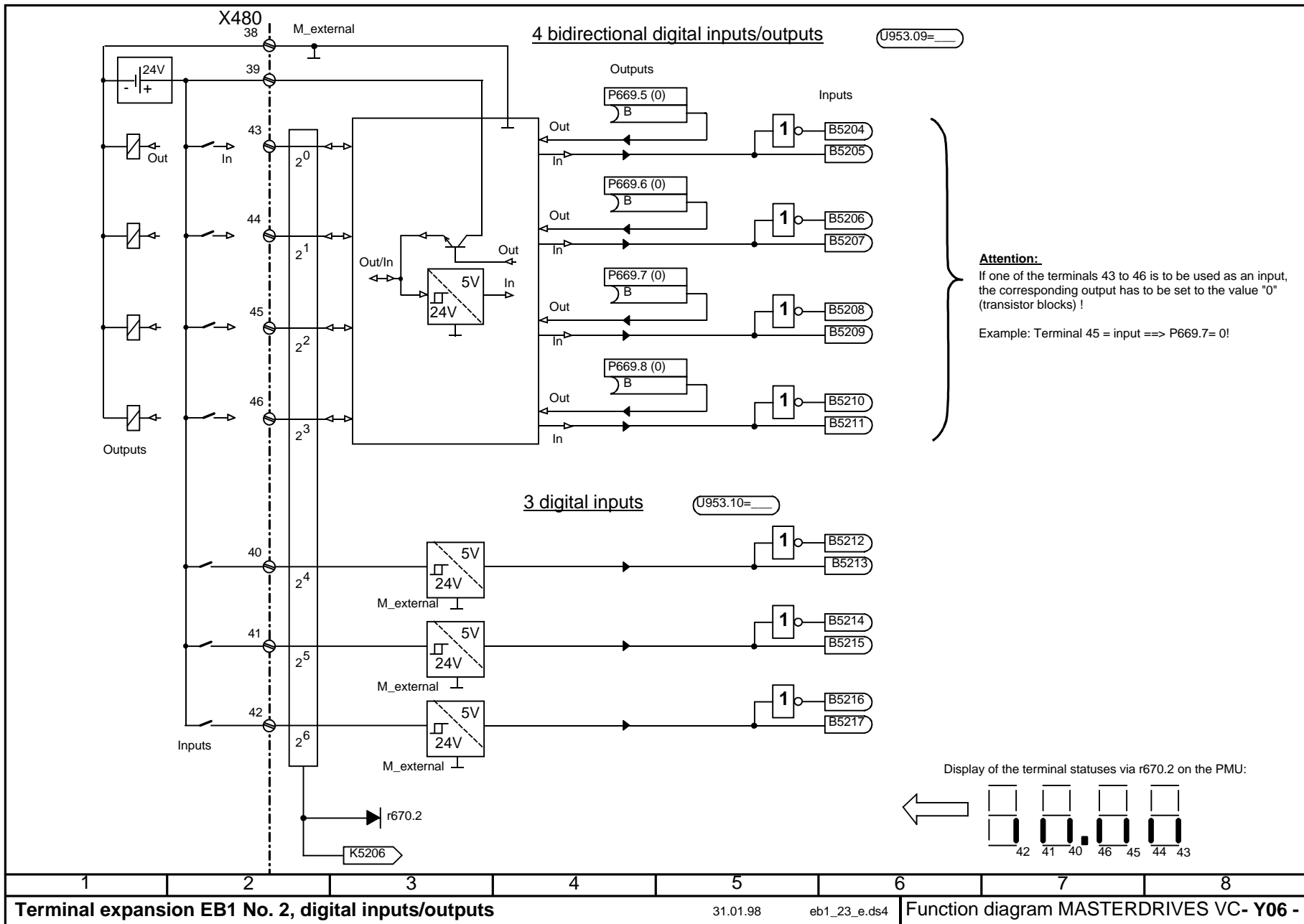


<1> **Attention:** The input resistance at terminal 53/54 is approx. 40 kOhm. If it is used as a digital input, it is necessary in some cases to connect an external loading resistor of approx. 4.7 kOhm downstream of the connected signal source, e.g. on some PLC digital outputs or when connecting switching contacts, in order to ensure the minimum load current of approx. 5 mA required for permanently reliable contacting.

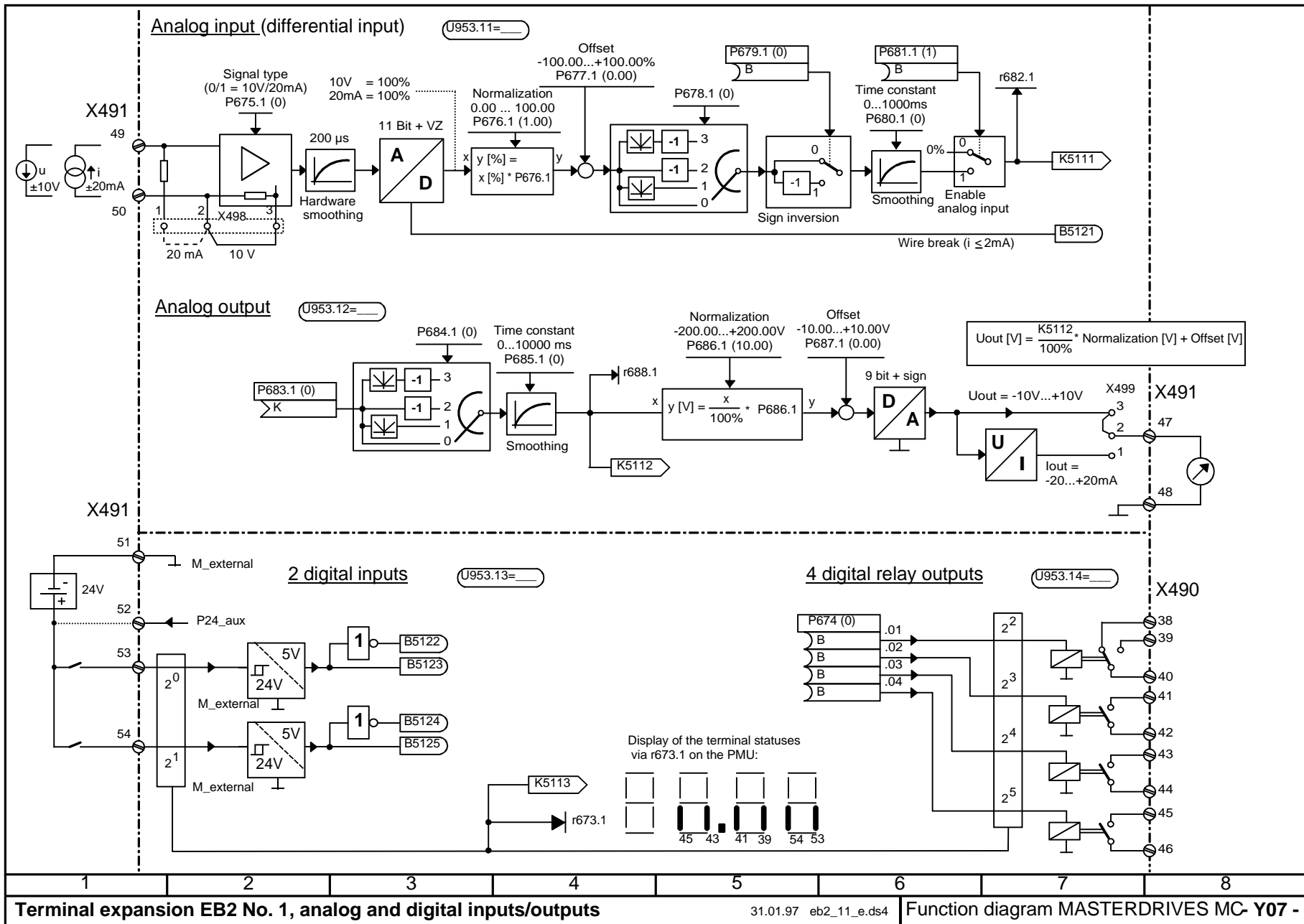
Analog outputs

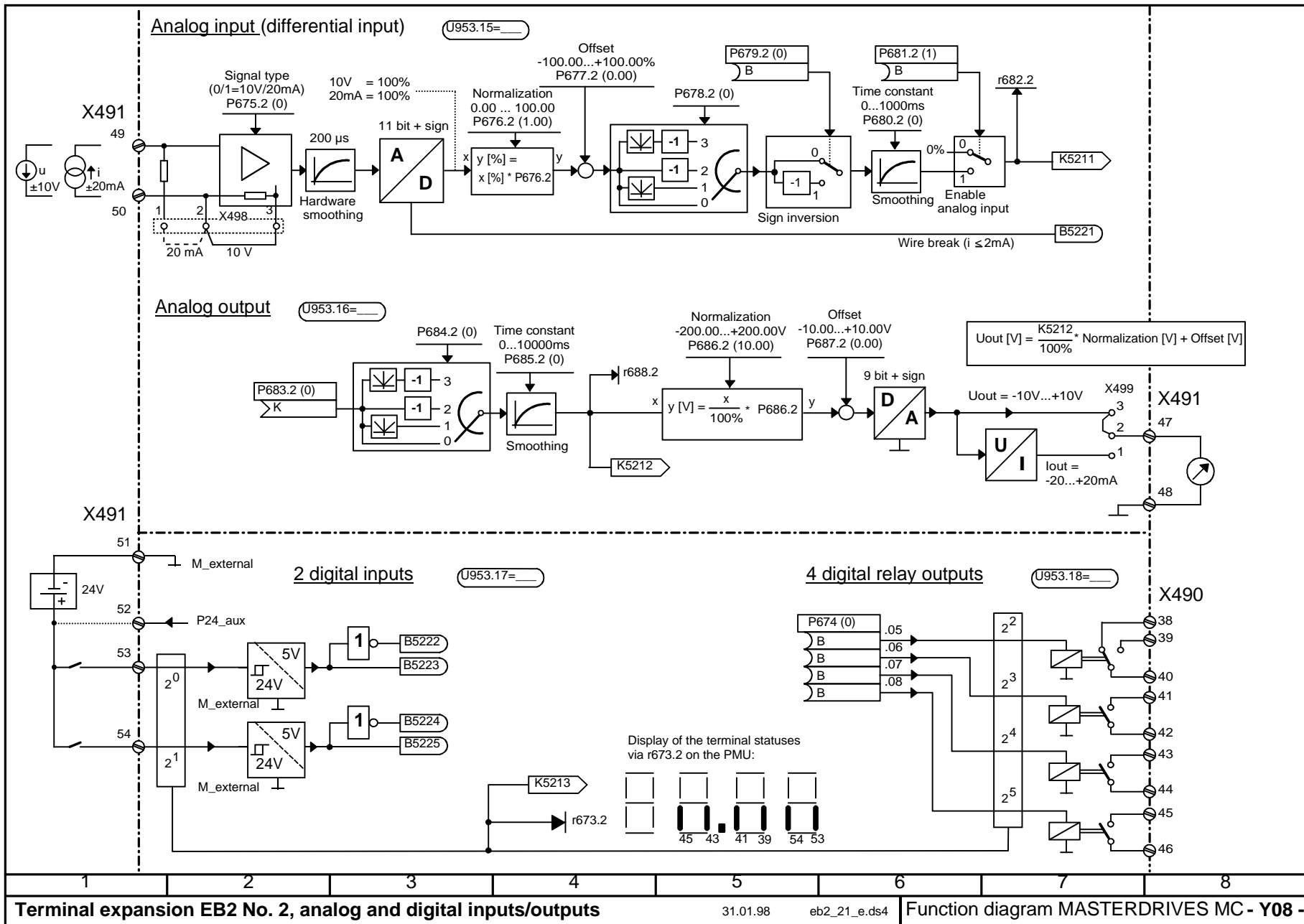
U953.08=

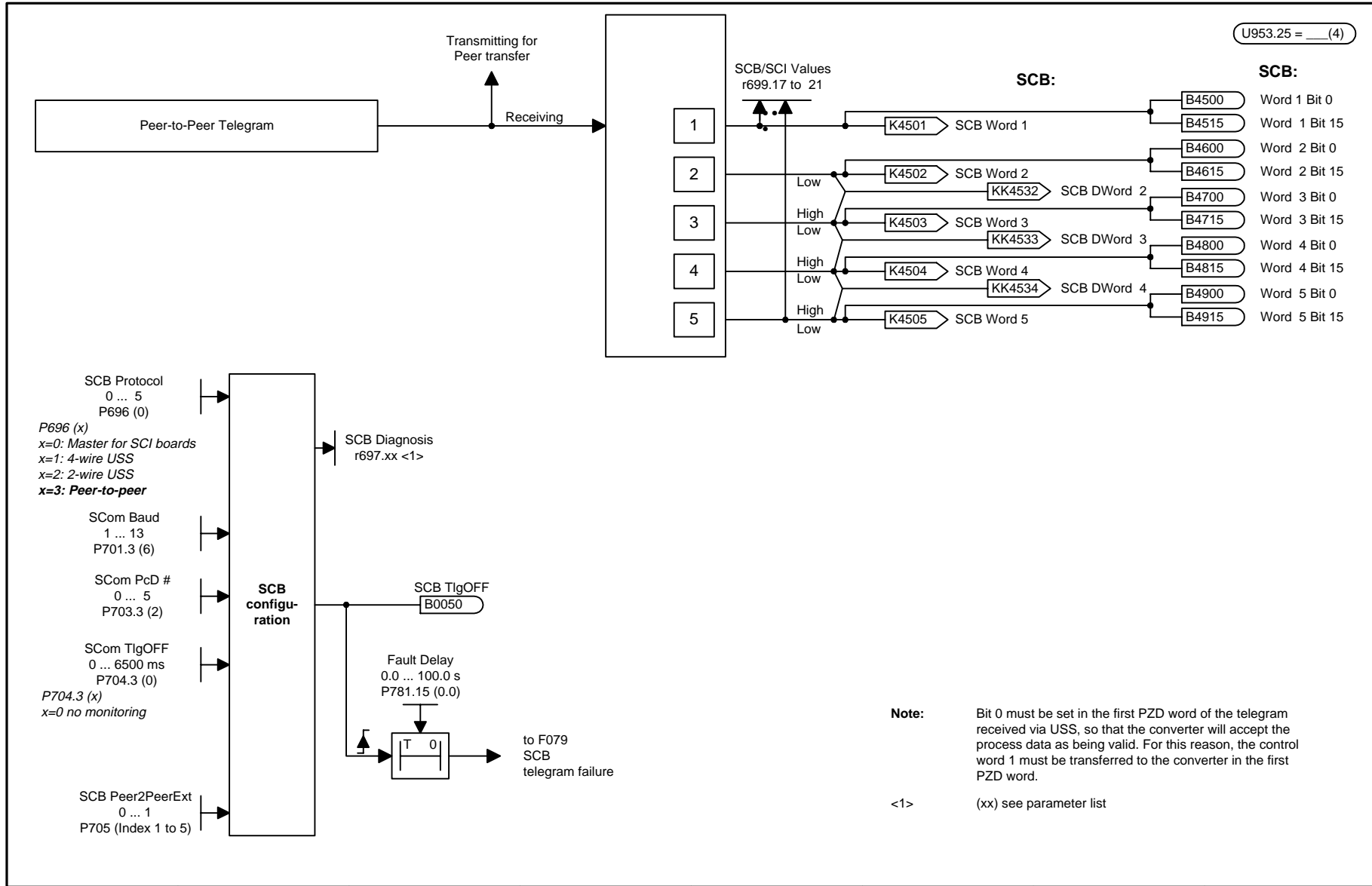




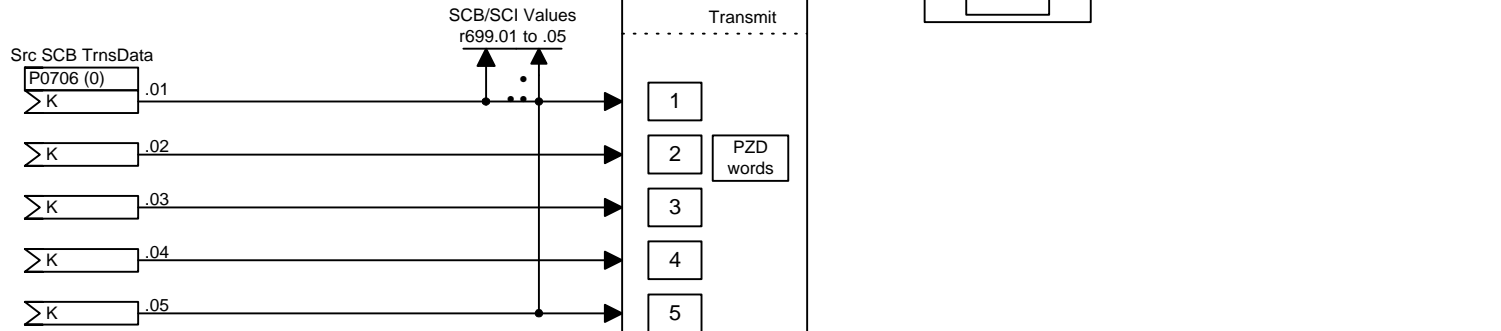






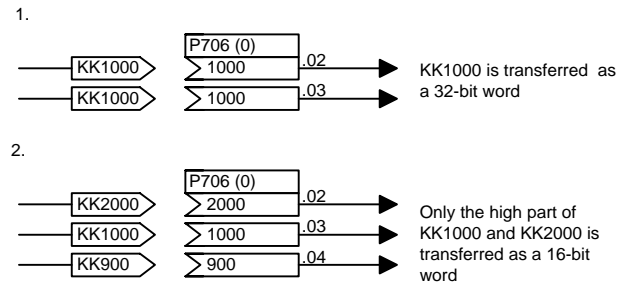


1	2	3	4	5	6	7	8
SCB1/2					fp_vc_Z01_e.vsd	Function diagram	
Peer-to-peer receiving					31.01.98	MASTERDRIVES VC	
							- Z01 -

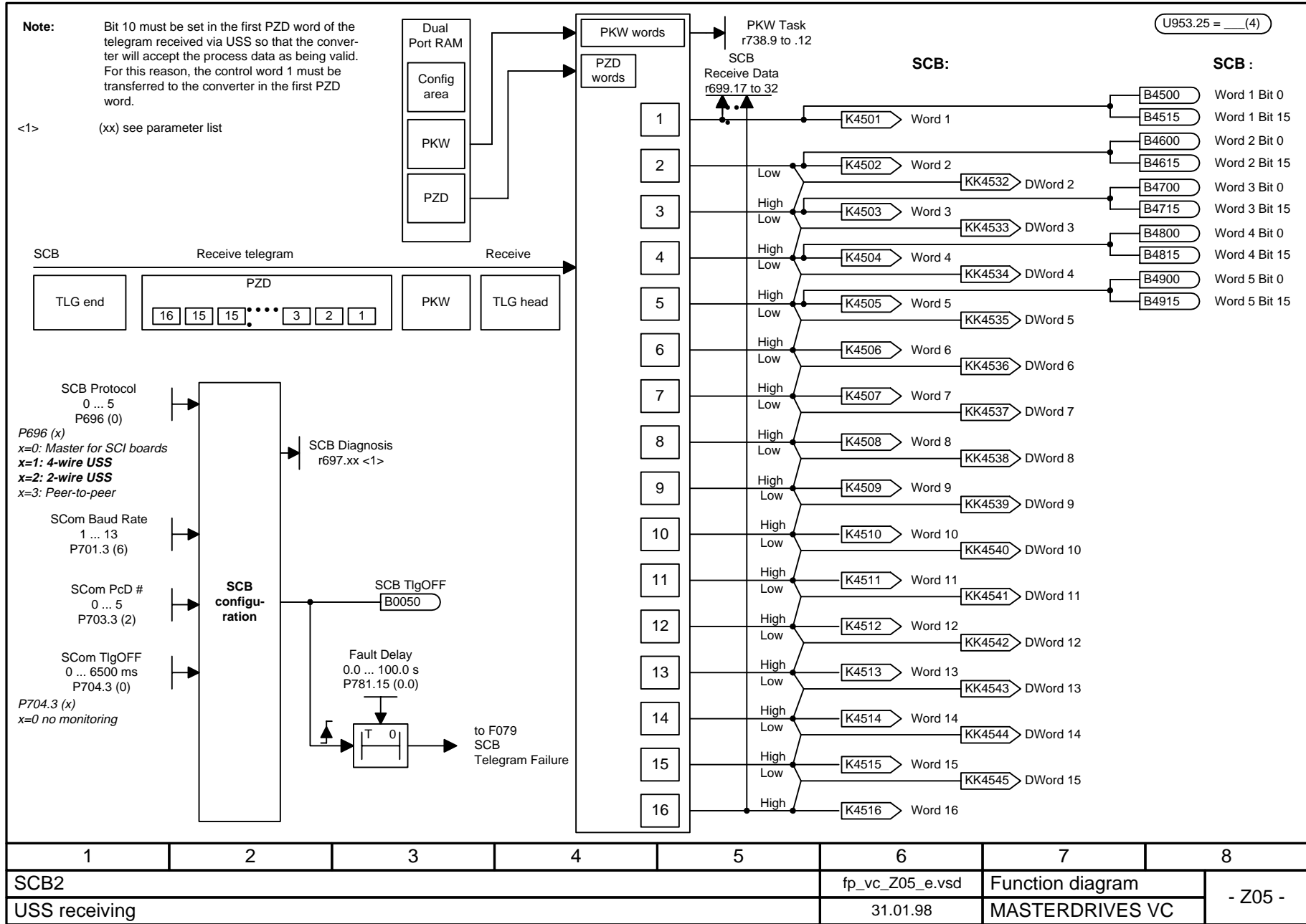


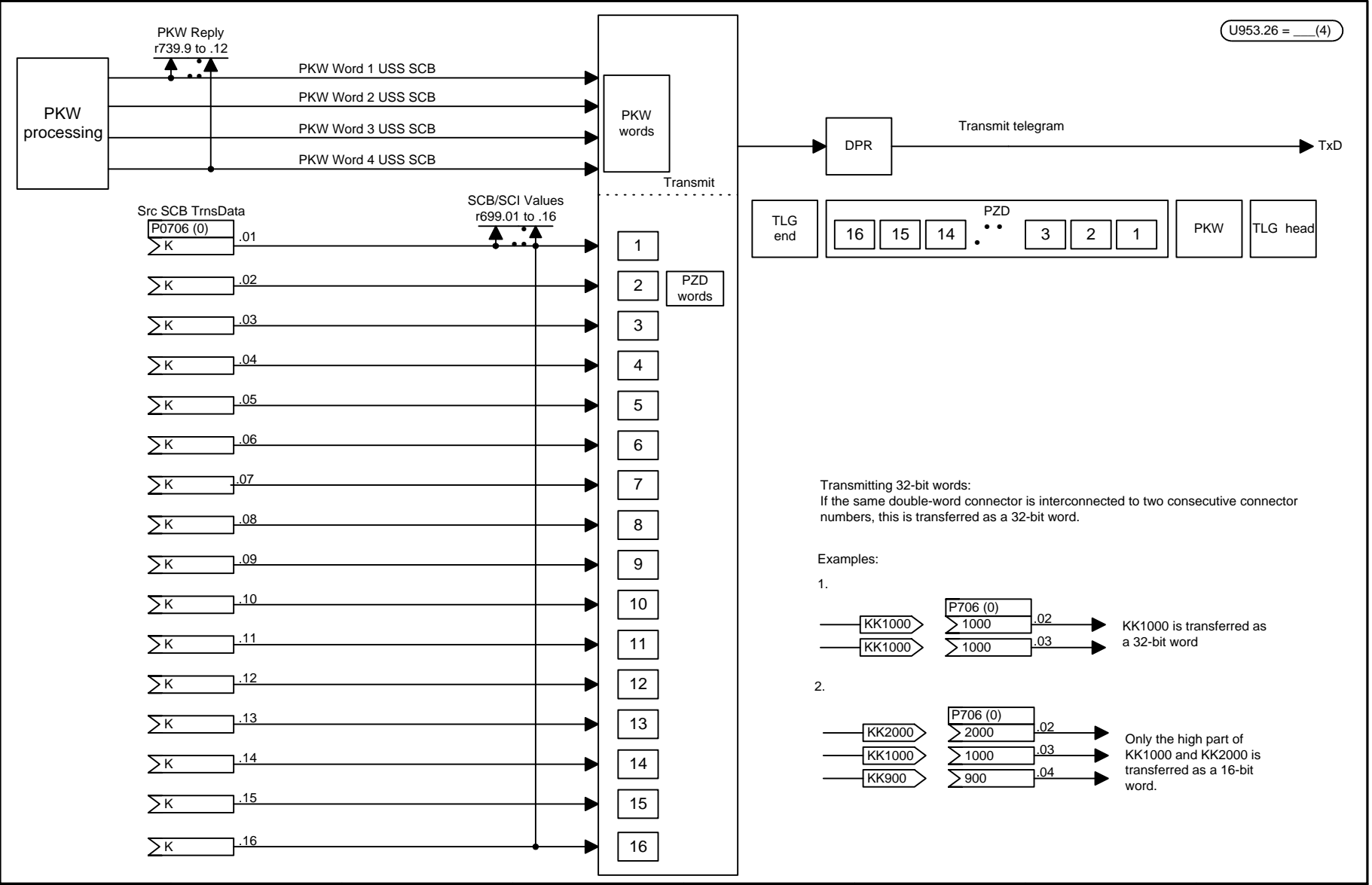
Transmitting 32 bit words:  
 If the same double-word connector is interconnected to two consecutive connector numbers, this is transferred as a 32-bit word.

Examples:



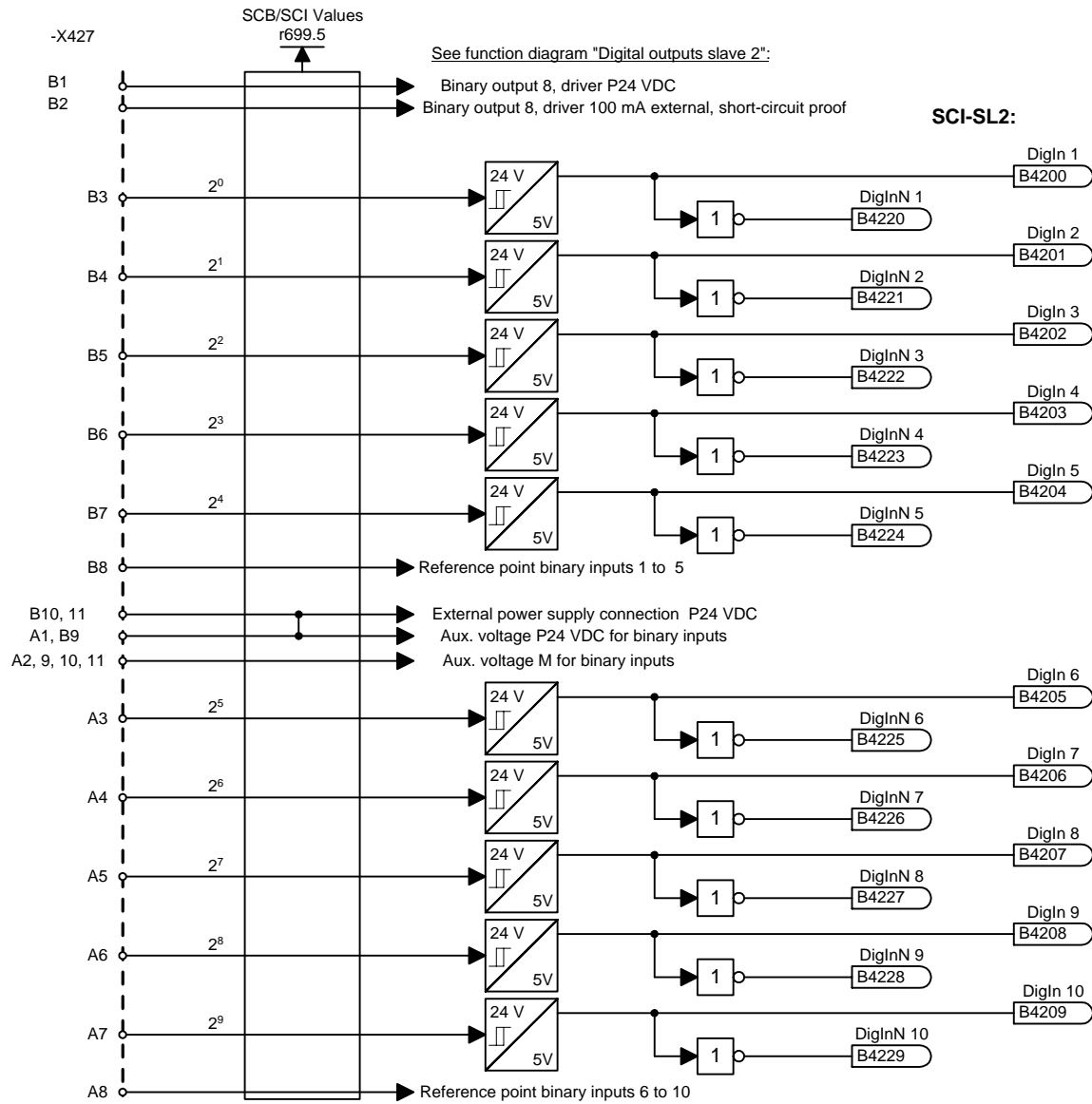
1	2	3	4	5	6	7	8
SCB1/2					fp_vc_Z02_e.vsd	Function diagram	
Peer-to-peer transmitting					31.01.98	MASTERDRIVES VC	
- Z02 -							





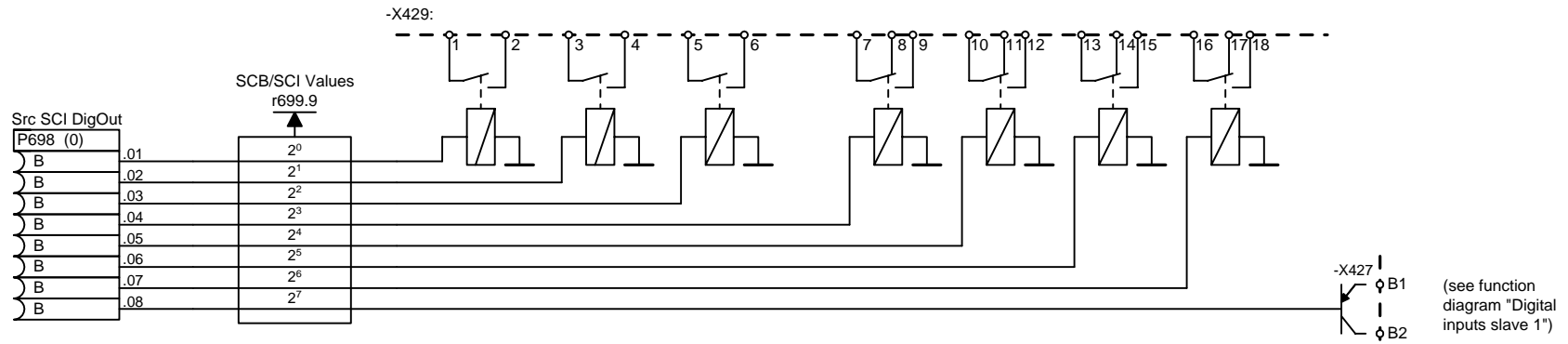
1	2	3	4	5	6	7	8
SCB2					fp_vc_Z06_e.vsd	Function diagram	
USS transmitting					31.01.98	MASTERDRIVES VC	
							- Z06 -



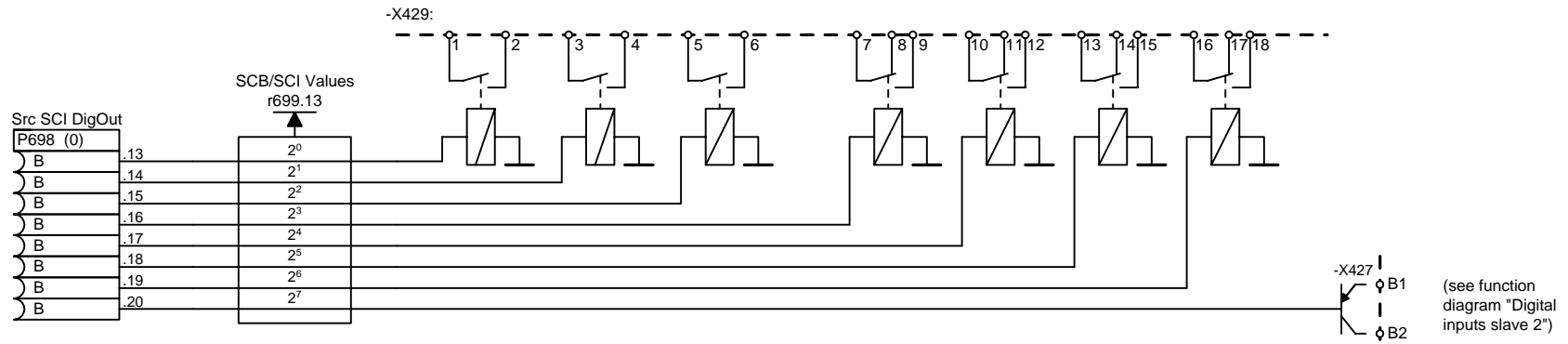


1	2	3	4	5	6	7	8
SCB1 with SCI1					fp_vc_Z11_e.vsd	Function diagram	
Digital inputs slave 2					31.01.98	MASTERDRIVES VC	
							- Z11 -

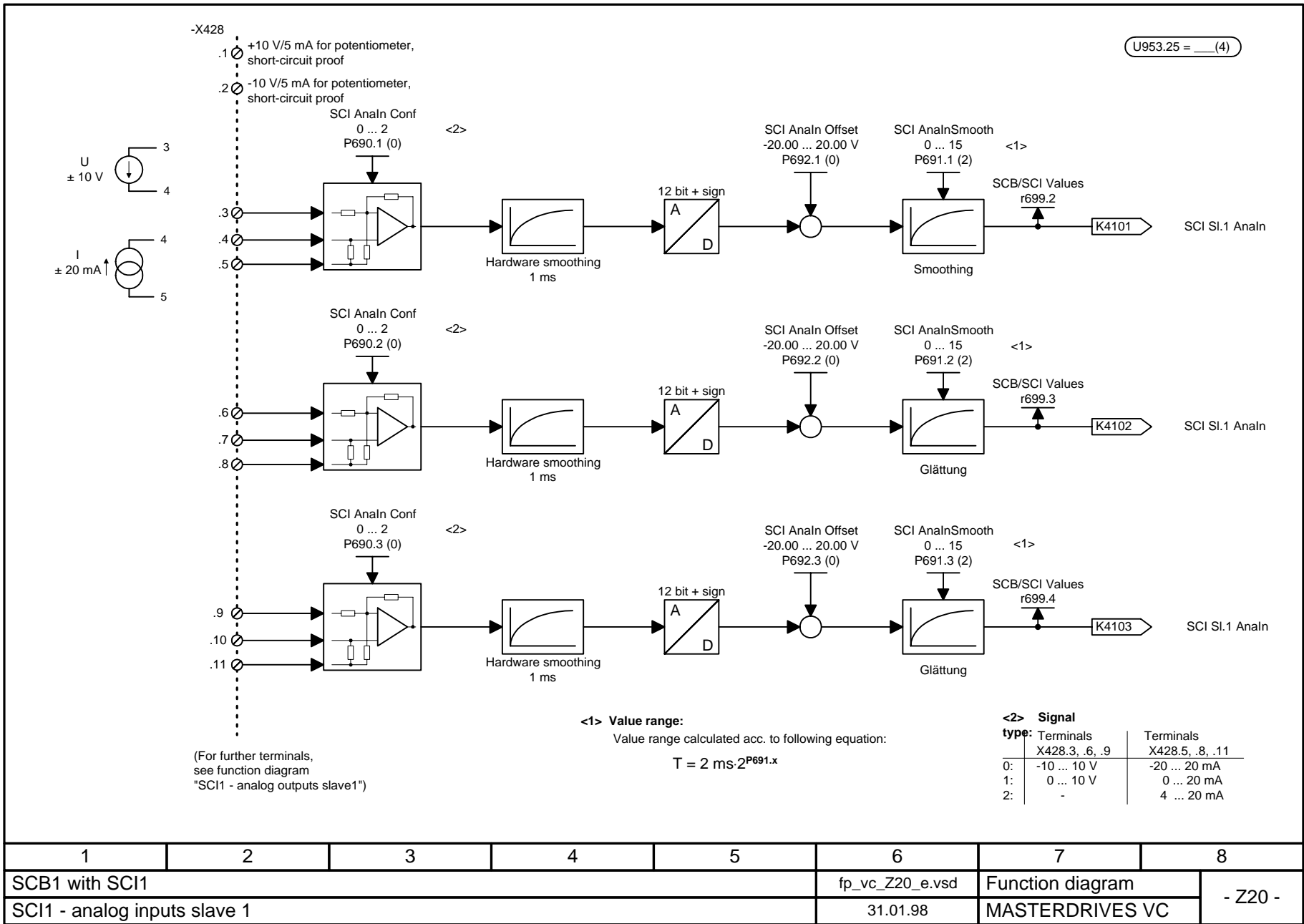


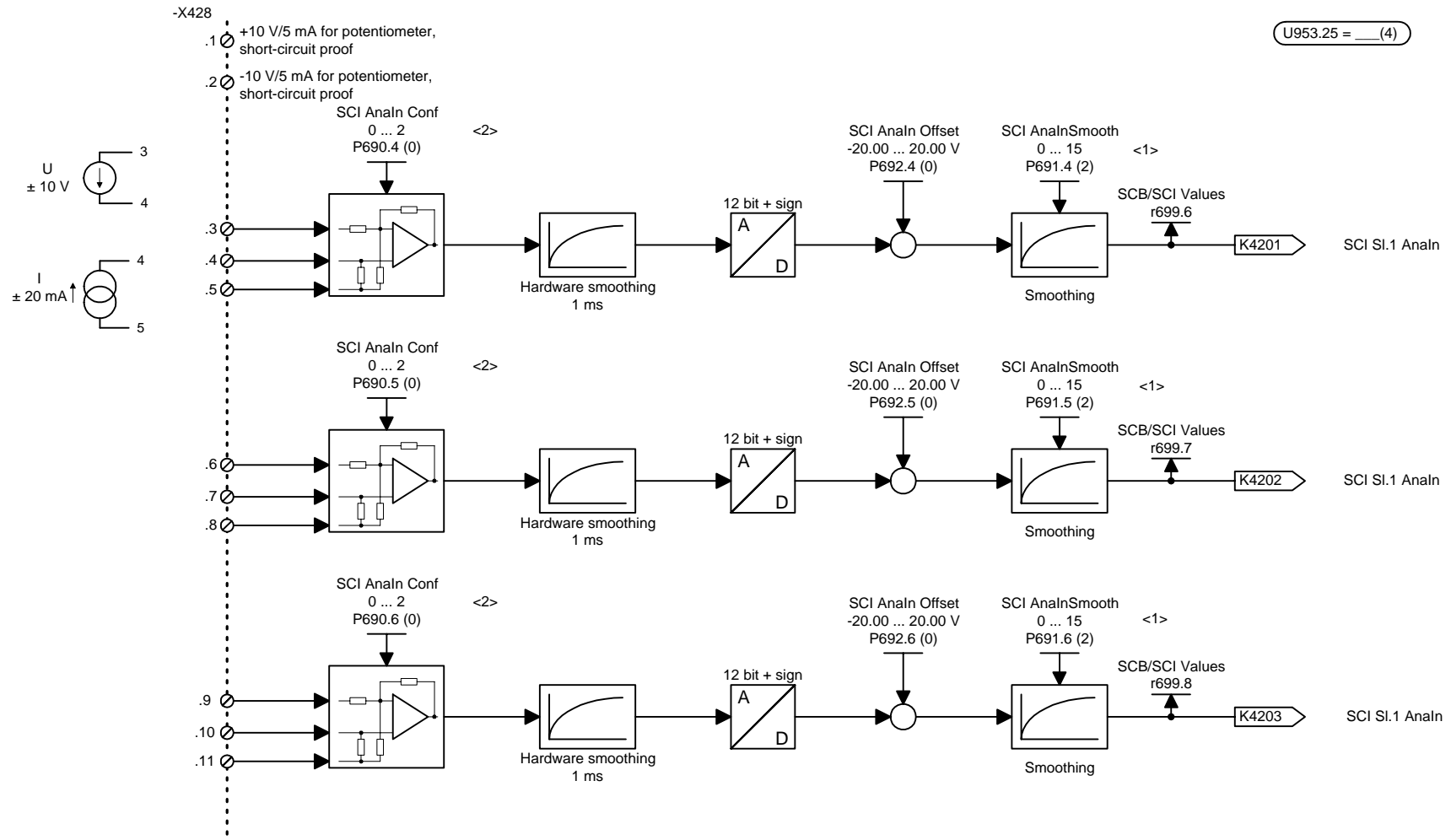


1	2	3	4	5	6	7	8
SCB1 with SCI1					fp_vc_Z15_e.vsd	Function diagram	
Digital outputs slave 1					31.01.98	MASTERDRIVES VC	
							- Z15-



1	2	3	4	5	6	7	8
SCB1 with SCI1					fp_vc_Z16_e.vsd	Function diagram	
Digital outputs slave 2					31.01.98	MASTERDRIVES VC	
							- Z16 -





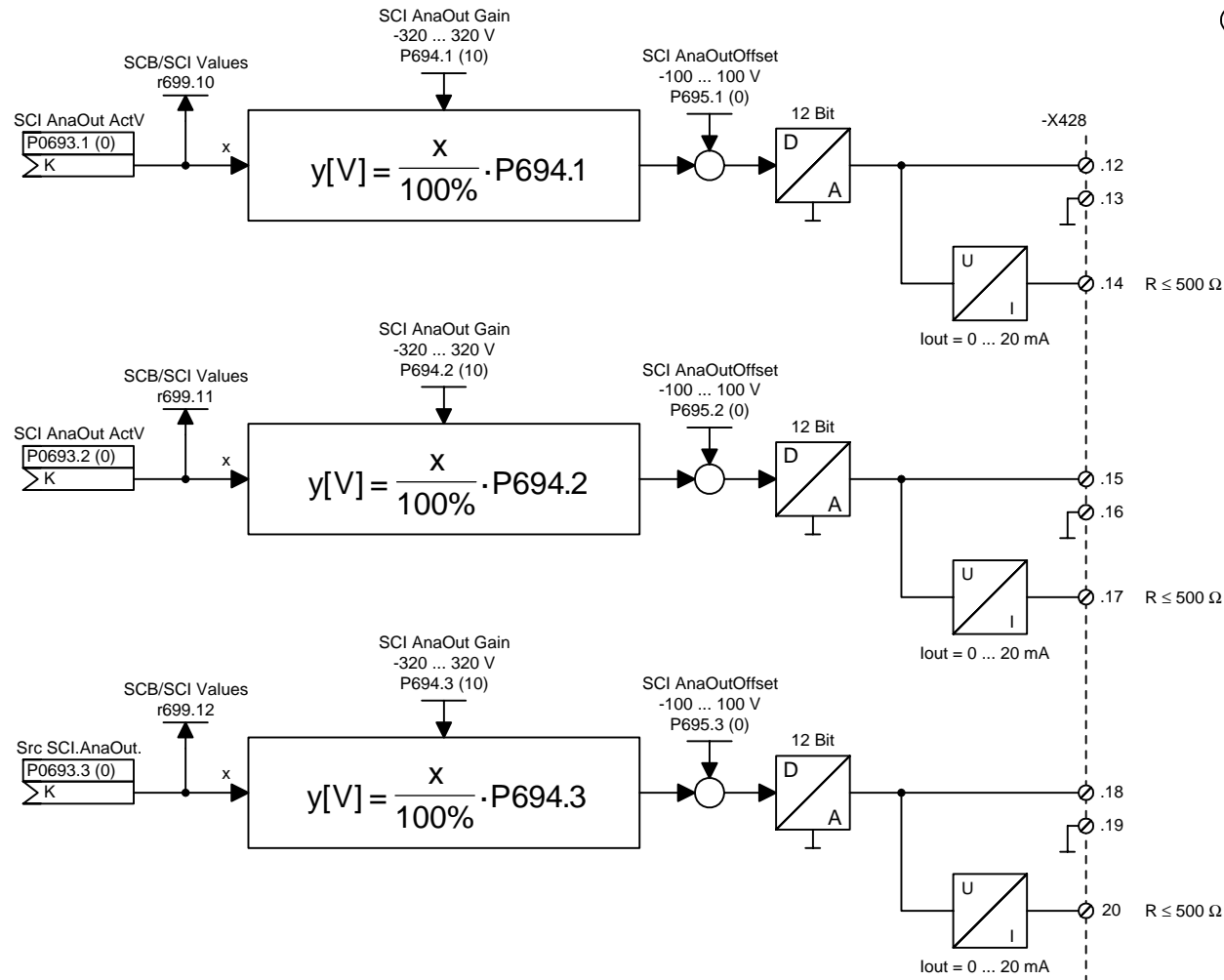
(For further terminals, see function diagram "SCI1 - analog outputs slave2")

<1> Value range:  
Value range calculated acc. to following equation:  
 $T = 2 \text{ ms} \cdot 2^{P691.x}$

<2> Signal type:

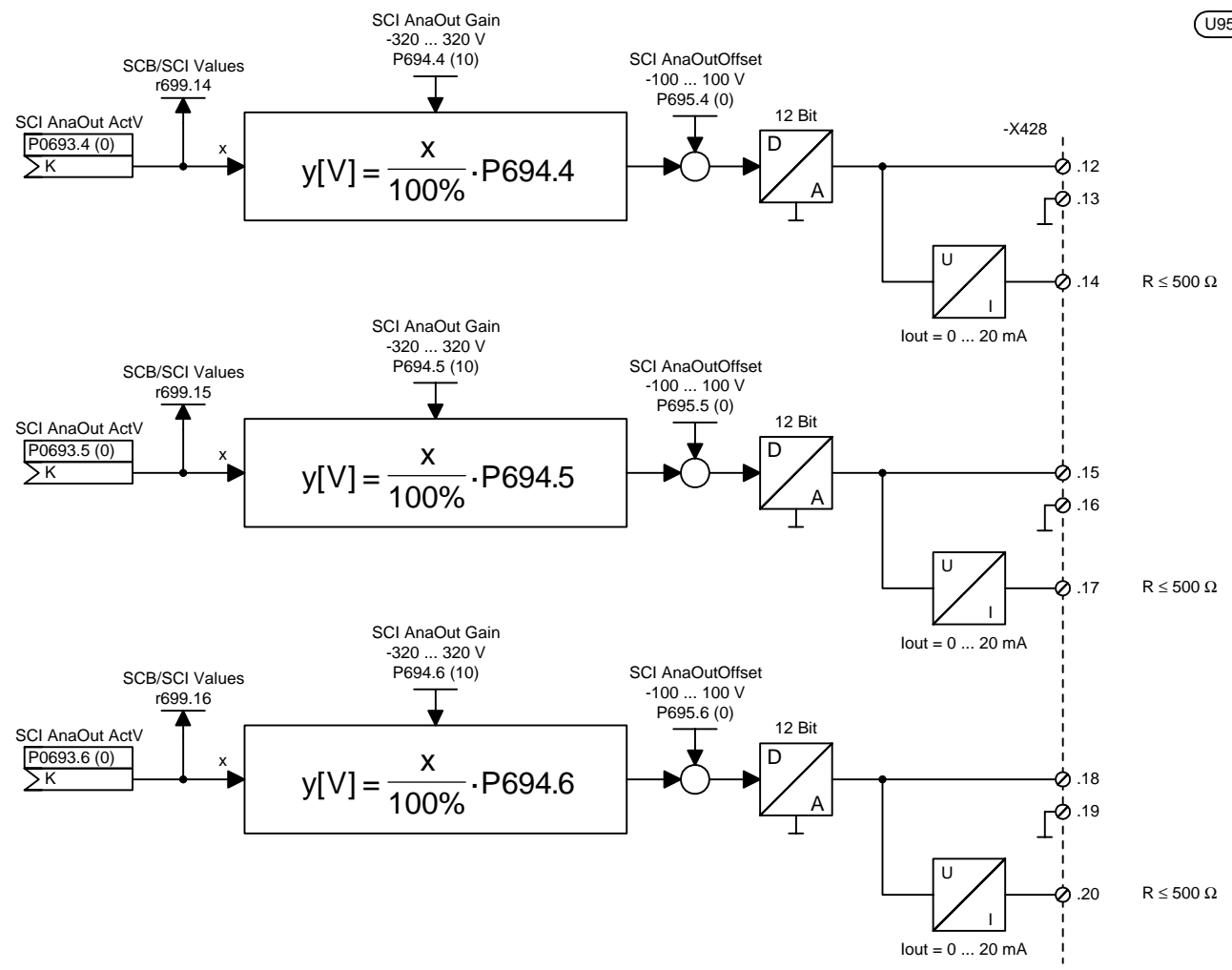
	Terminals X428.3, .6, .9	Terminals X428.5, .8, .11
0:	-10 ... 10 V	0 ... 20 mA
2:		4 ... 20 mA

1	2	3	4	5	6	7	8
SCB1 with SCI1					fp_vc_Z21_e.vsd	Function diagram	
SCI1 - analog inputs slave 2					31.01.98	MASTERDRIVES VC	



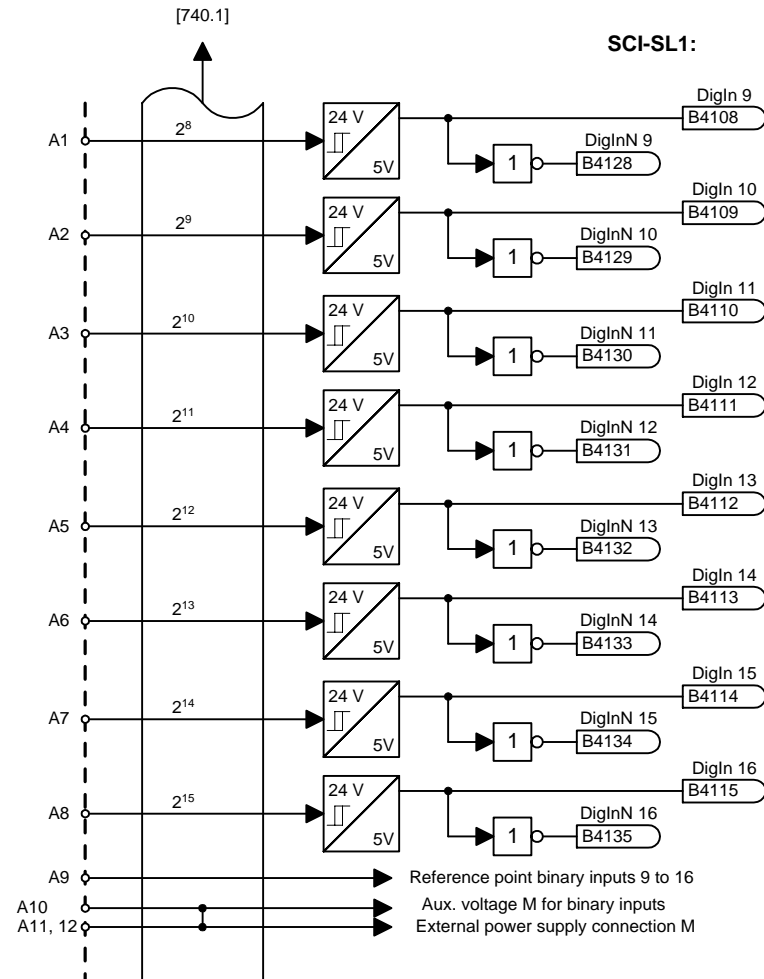
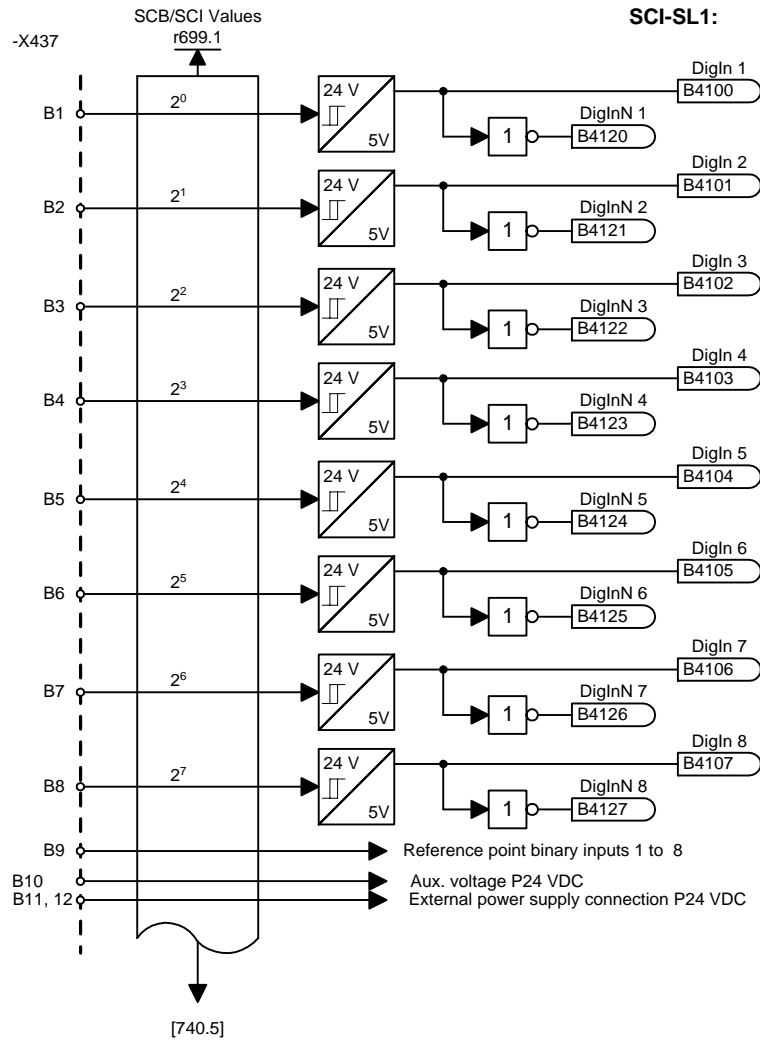
(For further terminals,  
see function diagram  
"SCI1 - analog inputs slave1")

1	2	3	4	5	6	7	8
SCB1 with SCI1					fp_vc_Z25_e.vsd	Function diagram	
SCI1 analog outputs slave 1					09.04.98	MASTERDRIVES VC	
							- Z25 -

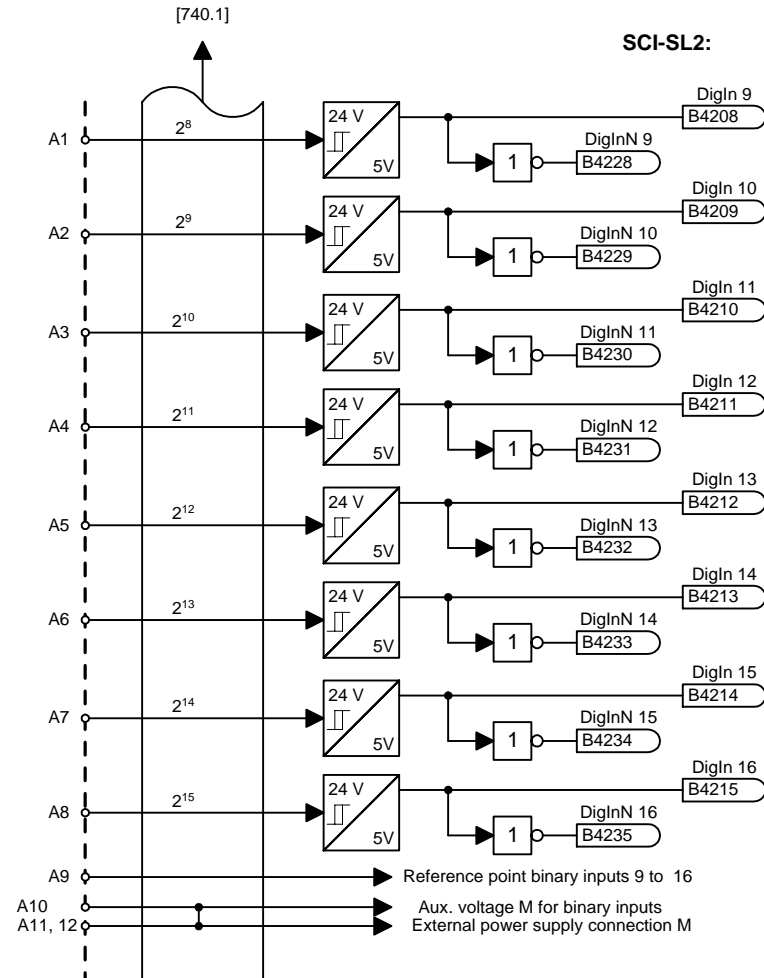
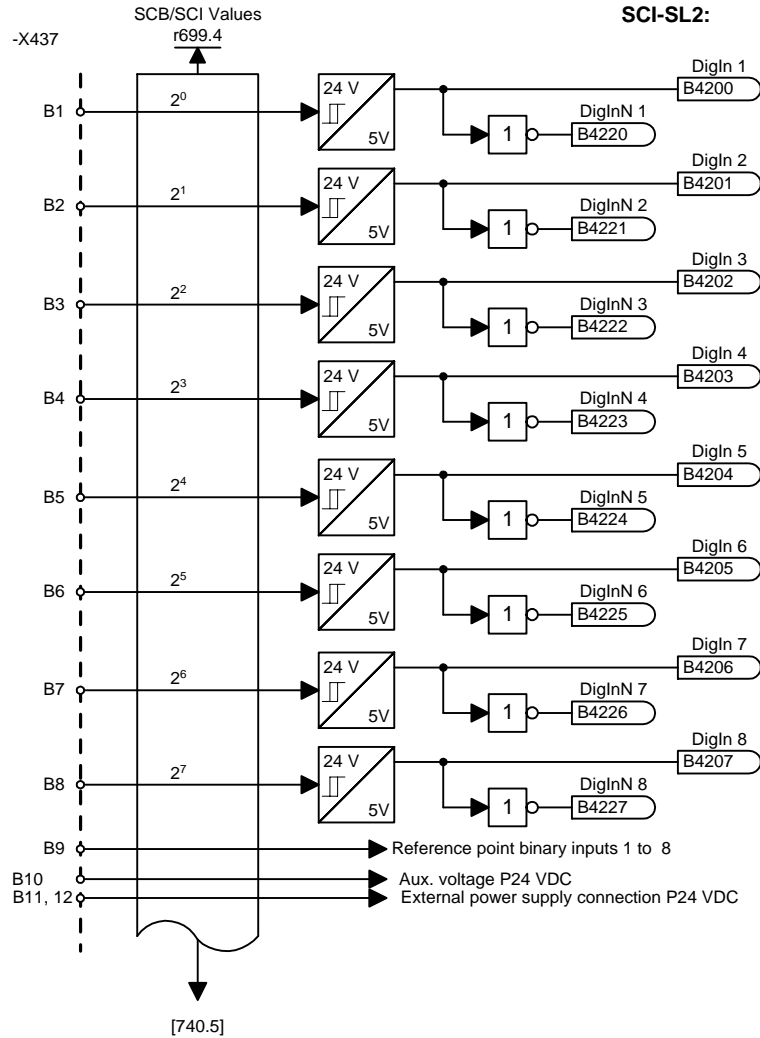


(For further terminals, see function diagram "SCI1 - analog inputs slave 2")

1	2	3	4	5	6	7	8
SCB1 with SCI1					fp_vc_Z26_e.vsd	Function diagram	
SCI1 analog outputs slave 2					09.04.98	MASTERDRIVES VC	



1	2	3	4	5	6	7	8
SCB1 with SCI2					fp_vc_Z30_e.vsd	Function diagram	
Digital inputs slave 1					31.01.98	MASTERDRIVES VC	
							- Z30 -



1	2	3	4	5	6	7	8
SCB1 with SCI2					fp_vc_Z31_e.vsd	Function diagram	
Digital inputs slave 2					31.01.98	MASTERDRIVES VC	
- Z31 -							