

47	0-31	Function 1 backward	1	2	4	8	4	
50	Bit	Motor configuration						0 (dec)
	1-4 (0-3)	Select motor type 0-5, enter as decimal number						
	6 (5)	0 EMF switch inactive						0
		1 EMF switch active						
	7 (6)	0 Control switched <u>on</u>						0
		1 Control switched <u>off</u>						
	8 (7)	0 High-frequency motor control (approx. 23 kHz)						0
		1 Low-frequency motor control (approx. 19 Hz)						
51	Bit	Braking configuration						0 (dec)
	1 (0)	1 Constant braking distance with ABC activated						0
	2 (1)	1 ABC activated						0
	3 (2)	1 ABC direction-dependency <u>de</u> activated						0
	4 (3)	1 Activate push-pull operation without intermediate stop						0
	5 (4)	1 Activate push-pull operation with intermediate stop						0
	6 (5)	1 Stopping with DC independent of the polarity (only if Bit 3 is deleted in CV29).						0
	7 (6)	Not used						
	8 (7)	1 Constant braking distance with speed step 0 activated						
52	0-255	Braking distance with activated constant braking distance						50
53	0-255	Slow approach with ABC						48
54	0-255	Stopping time in push-pull operation, 1 to 256 sec						4
55	0-255	Sets brightness at function outputs A 255=max						255
56	0-255	Sets brightness at function outputs B 255=max						255

57	-	Function mapping:						
59,		Each bit of the CV stands for a function of the digital system:						
61		Bit 1(0) for function 1, Bit 2(1) for function 2 and so on up to Bit 8(7) for function 8. If you wish to allocate a function to the dimming, the respective bit must be set.						
57	0-255	Mapping of Dimming for F-Outputs A to D (no ex-works setting)						0
58	0-255	Shunting speed (ex-works setting F3)						4
59	0-255	Switching off the delay (ex-works setting F4)						8
60	0-255	Lighting effect at function outputs A and B:						0
		The tens digit for function output B:	The units digit of the value stands for function output A					
		0 No effect	0 No effect					
		1 Marslight	1 Marslight					
		2 Gyrolight	2 Gyrolight					
		3 Strobe	3 Strobe					
		4 Double strobe	4 Double strobe					
61	0-255	Function mapping, lighting effect at function outputs A and B						0
62	0-255	Lighting effect at function outputs C and D:						0
		The tens digit of the value stands for function output D:	The units digit of the value stands for function output C:					
		0 No effect	0 No effect					
		1 Flashing at same time as function output C	1 Flashing					
		2 Flashing alternately to function output C	2 Flickering type 1 (smooth)					

29	Bit	Settings 1	6 (dec)
	1 (0)	Direction of travel	0
	0	normal: locomotive drives forward if the arrow on the manual control points up.	
	1	interchanged: locomotive drives forward if the arrow on the manual control points down.	
	2 (1)	Running-notches mode:	1
	0	Operation with 14 or 27 running notches. This setting is chosen for digital systems which do not support the 28 running-notches mode.	
	1	Operation with 28 or 128 running notches. This setting is chosen for digital systems which support the 28/128 running-notches mode.	
	3 (2)	Operational mode:	1
	0	Locomotive only runs in digital operation.	
	1	Locomotive runs both in digital and conventional operation, flying splice possible.	
	4 (3)	0 RailCom transmission disabled	0
	1	RailCom transmission enabled	
	5 (4)	0 factory pre-set speed curve is used	0
	1	User defined speed curve is used	
	6 (5)	0 Decoder uses basic address (from CV1)	0
	1	Decoder uses extended address (from CV17 and CV18)	
	7-8(6-7)	Not used	0
30	Bit	Fault display	0 (dec)

	1 (0)	1	Light short-circuit	0			
	2 (1)	1	Overheating	0			
	3 (2)	1	Motor-/Track short-circuit	0			
CV	Range of values	Function mapping for function outputs: In order to allocate a function of the digital system to a function output—look for the section where the row of the desired function meets the column of the desired function output. Enter the number found in the respective CV. For the purpose of clarification, ex-works settings are shown in bold print.			Ex-works setting		
33	—						
47							
CV		Function output:	A	B	C	D	
33	0-31	F0 forward	1	2	4	8	1
34	0-31	F0 backward	1	2	4	8	2
35	0-31	Function 1 forward	1	2	4	8	4
36	0-31	Function 2	1	2	4	8	8
37	0-31	Function 3	1	2	4	8	0
38	0-31	Function 4	1	2	4	8	0
39	0-31	Function 5	1	2	4	8	16
40	0-31	Function 6	1	2	4	8	0
41	0-31	Function 7	1	2	4	8	0
42	0-31	Function 8	1	2	4	8	0
43	0-31	Function 9	1	2	4	8	0
44	0-31	Function 10	1	2	4	8	0
45	0-31	Function 11	1	2	4	8	0
46	0-31	Function 12	1	2	4	8	0