

Digitrax Decoder Index

DG83FX



DG38 has blue shrink wrap marked "DG83FX"

[DG83FX Instructions](#)

[Digitrax Decoder Manual](#)

Physical Size	0.67" x 2.0" x .25" 17.02mm x 50.80mm x 6.35mm	Current Rating	3.0/4.5 Amps
Interface	Decoder End	Wires	End Plug
W	Wired	6.9" 175mm	Wires

# Functions	5	Function Current Rating	200mA	Function Type	4-FX 1-STD
Prod Date	02-01-1996	Discontinued	06-01-1998	Replaced By	DG583S DG380L

FX Motor Isolation Protection Note

CV#	Feature	Default	Range	Notes
2 Digit and 4 Digit Addressing				
01	2 Digit Decoder Address	003/x03	001-127	
17	4 Digit Address Hi Byte			Not Available
18	4 Digit Address Lo Byte			Not Available
29	Configuration Register	006/x06	Table 29	
Configuration Register				
29	Configuration Register	006/x06	Table 29	
	Address Selection, 2 or 4 digit	2 Digit	2 or 4 Digit	
	Normal Direction of Travel (NDOT)			Not Available
	Speed Step Control	28/128	14 or 28/128	
	Speed Table On/Off	Off	Speed Table On or Off	
	Analog Mode Conversion On/Off	On	On or Off	
LocoMotion™				
Acceleration & Deceleration				
03	Acceleration Rate	000/x00	000/x00 to 031/x1F	128 Steps
04	Deceleration Rate	000/x00	000/x00 to 031/x1F	128 Steps
Three Step Speed Table & Start Voltage				
02	Start Voltage	000/x00	000/x00 to 255/xFF	128 Steps
05	Maximum Voltage	000/x00	000/x00 to 255/xFF	28 Steps 000/x00, 001/x01 & 255/xFF= max voltage at step 28
06	Mid Point Voltage	000/x00	000/x00 to 255/xFF	28 Steps 000/x00 & 001/x01= straight line curve
28 Step Speed Tables -28 steps				
65	Kick Start value	000/x00		28 Steps
66	Forward Trim	000/x00		28 Steps

67	First Speed Table Entry	000/x00		28 Steps
68-93	28 Step Speed Table Entries	000/x00		28 Steps
94	Maximum Speed Table Step	000/x00		28 Steps
95	Reverse Trim	000/x00		28 Steps
29	Configuration Register	006/x06	Table 29	Set to enable speed tables
Torque Compensation & Switching Speed				
53	Used for FX Function Control			Not Available
54	Torque Compensation Switching Speed			Not Available
DC Functions				
13	DC Functions ON			Not Available
FX Functions				
49	F0F, forward light effect white	000/x00	FX Effects Table	
50	F0R, reverse light effect yellow	000/x00	FX Effects Table	
51	F1, Function 1 green	000/x00	FX Effects Table	
52	F2, Function 2 violet	000/x00	FX Effects Table	
53	F3, Function 3 brown			Not Available
54	F4, function 4 white/yellow			Not Available
115	F5, Function F5 white/green			Not Available
116	F6, Function F6 white/blue			Not Available
62	FX Rate and Keep alive adjust	000/x00	000/x00 to 255/xFF	
63	Ditch Light Blink hold time	000/x00	000/x00 to 255/xFF	
Directional Headlights, Transponding, Split Field Motor				
61	Directional Headlight	Directional	Table 61	
	Transponding			Not Available
	Split Field Motor			Not Available
Scaleable Speed Stabilization				
55	Static Compensation			Not Available
56	Dynamic Compensation			Not Available
57	Speed Stabilizer-Droop			Not Available
SuperSonic				
09	Motor Frequency SuperSonic			Not Available
Advanced Consisting				
19	Advanced Consist Address			Not Available
21	Advanced Consist Function Control Override for F1-F8			Not Available
22	Advanced Consist Function Control Override for F0 & F9-F12			Not Available
Function Remapping				
33-46	Function Remapping CVs			Not Available
Decoder Factory Reset				
08	Reset Decoder to Factory Default CV Values			Not Available
IDs				
105	User Private ID #1	000/x00		
106	User Private ID #2	000/x00		
07	Version ID	Various	000 & others	Read/Write
08	Manufacturer ID	129/x81		

Information provided here is correct to the best of our knowledge.
Please report any errors or omissions, to info@digitrax.com

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