DZ125 1 Amp, Wired Mobile Decoder, 2 Functions, Back EMF



UPC: 652667-05056-2

Physical	.418" x .340" x .112"	Current Rating	1.0/1.25 Amps
Size	10.62mm x 8.64mm x 2.84mm		

Interface	Decoder End	Wires		Locomotive End/Plug
W	Wired	5"	127mm	Wires

# Functions	2	Function	500mA	Function	FX ³
		Current Rating		Туре	
Prod Date	12-20-	Discontinued	Current	Replaced By	Current
	2007				
MSRP	US\$24.99	Feature Set	Series 5		

FX³ decoders have motor isolation protection. If the decoder senses that the motor is not isolated, it will not run the motor. In this case, you will be able to control the loco's functions but the motor will not work.

CVs are used for this decoder

CV#	Feature	Default	Range	Notes
Locon	notive Address CVs			
01	2 Digit Decoder Address	03	001-127	
17	4 Digit Address (High Byte)	00	0128-9983	CV17 & 18 are used
18	4 Digit Address (Low Byte)	00	0128-9983	Together to program the 4 digit address. Current production Digitrax throttles handle this automatically. See calculator below if separate values are needed by your system for programming 4 digit address
29	Configuration Register Controls Multiple Features	06	See CV29 Value Table Below	Must be set to a value that allows either 2 digit or 4 digit addressing

Conf	iguration Register CV			
29	Configuration Register	06		
	Address Selection, 2 or 4 digit	2 Digit	2 or 4 Digit	
	Normal Direction of Travel (NDOT)	Fwd	Fwd/Rev	
	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	
Loco	motion CVs-Control			
	motive Motion			
	racteristics			
	leration and Deceleration	I	I	
03	Acceleration Rate	00	00 to 31	128 Steps
04	Deceleration Rate	00	00 to 31	128 Steps
	e Step Simple Speed Table & St			1
02	Start Voltage	00	00 to 255	128 Steps
05	Maximum Voltage	00	00 to 255	128 Steps 00, 01 & 255= max voltage at step 28
06	Mid Point Voltage	00	00 to 255	128 Steps 00 & 01= straight line curve
28 St	ep Speed Tables with 256 Step 1	Resolution	1	
65	Kick Start value	00		128 Step Interpolated
66	Forward Trim	00		128 Step Interpolated
67	First Speed Table Entry	00		128 Step Interpolated
68- 93	28 Step Speed Table Entries	00		128 Step Interpolated
94	Maximum Speed Table Step	00		128 Step Interpolated
95	Reverse Trim	00		128 Step Interpolated
29	Configuration Register	06 Speed Tables are disable d	See Above CV29	Must be set to a value that enables speed tables
Torq	ue Compensation and		•	
-	ching Speed			
53 FX ³	FX^3 Decoders do not use CV53	NA	NA	Not Available
53	FX Decoders used CV53 to			See instruction sheet for
FX	designate FX effect generated on F3-Brown Wire			the FX decoder you are using
54 FX ³	FX ³ Decoders use CV54 to control Switching Speed & Torque Compensation	00	00=SS Off, TC On 01=SS On, TC On	

			16=SS Off, TC Off	
			-	
			17=SS On, TC	
52			Off	
53 EV	FX Decoders used CV54 to			See instruction sheet for
FX	designate FX effect generated			the FX decoder you are
T	on F4-White/Yellow Wire			using
Funct			A <i>i i</i>	$\mathbf{N} + \mathbf{U} = 1 \mathbf{F} \mathbf{X}^3$
13	DC Functions ON Not Used in FX ³		Automatic	Not Used FX ³
	unctions		1 2	
49	F0F, forward light effect	00	See FX ³	
	white		section	
50	F0R, reverse light effect	00	See FX ³	
	yellow		section	
51	F1, Function 1 green	00	See FX ³	
			section	
52	F2, Function 2 violet	00	See FX ³	
			section	
113	F3, Function 3 brown	00		Not Available
114	F4, function 4 white/yellow	00		Not Available
115	F5, Function F5 white/green	00		Not Available
116	F6, Function F6 white/blue	00		Not Available
62	FX Rate and Keep alive	00	00 to 255	
	adjust			
63	Ditch Light Blink hold time	00	00 to 255	
	Master Light Switch			See FX ³ section
	tional Headlights, Transpondin			1
61	Directional Headlight	Directi	Map F0	Not controlled by CV61
		onal	Forward &	in FX ³ Decoders
			Reverse	
			See CV61	
			Section	
	Transponding	Off	Off or On	
			See CV61	
			Section	
	Split Field Motor	Off	Off or On	For AC Motors
			See CV61	
~			Section	
	able Speed Stabilization (Back	,		
55	Static Compensation	128	00 to 255	
56	Dynamic Compensation	048	00 to 255	
57	Speed Stabilizer-Droop	006	00 to 15	
Super	Namia (Quiet Onemation)			
	rSonic (Quiet Operation)			
09	Motor Frequency SuperSonic	00	00 to 255	Default is MAX
09 Adva	Motor Frequency SuperSonic nced Consisting		1	
09 Advar 19	Motor Frequency SuperSonic nced Consisting Advanced Consist Address	00	00 to 255	Default is MAX Default is OFF
09 Adva	Motor Frequency SuperSonic nced Consisting		1	

22	Advanced Consist Function	00	See CV21-22	
	Control Override for F0 &		Section	
	F9-F12			
Funct	tion Mapping			
33-	Function Mapping CVs	00	See Function	
46			Mapping	
			Section	
Decod	ler Reset to Default Values			
08	Reset Decoder to Factory	129	Set to 08 to	Set to 09 to reset all CV
	Default CV Values		reset all CV	Values except 28 step
			Values.	speed table.
Decod	ler IDs			
105	User Private ID #1	00		User Defined
106	User Private ID #2	00		User Defined
07	Version ID	64	Digitrax	Read Only
			Version ID	
08	Manufacturer ID	129	Digitrax	Not affected by reset

Information provided here is correct to the best of our knowledge.