DZ143 1 Amp Premium Wired Mobile Decoder, 4 FX3 Functions, Z Scale



UPC: 652667-05019-7

Physical	.36" x .55" x .13"	Current Rating	1.25/2.0 Amps
Size	9.1mm x 14mm x 3mm		

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

# Functions	4	Function	500mA	Function	FX^3
		Current Rating		Туре	
Prod Date	07/30/2002	Discontinued	Current	Replaced By	Current
MSRP	US\$34.95	Feature Set	Series 3		

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	Must be set to a value that allows either 2 digit
	controls multiple i outdros		Below	or 4 digit addressing
Confi	guration Register CV			

29	Configuration Desistor	06		
29	Configuration Register		2 on 1 Digit	
	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			
Loco	motive Motion			
Char	acteristics			
Accel	leration and Deceleration			
03	Acceleration Rate	00	00 to 31	128 Steps
04	Deceleration Rate	00	00 to 31	128 Steps
Three	e Step Simple Speed Table & St	art Volta	ge	·
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 I	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-	28 Step Speed Table Entries	00		128 Step Interpolated
93				
94	Maximum Speed Table Step	00		128 Step Interpolated
95	Reverse Trim	00		128 Step Interpolated
29	Configuration Register	06	See Above	Must be set to a value
		Speed	CV29	that enables speed tables
		Tables		
		are		
		disable		
		d		
-	ue Compensation and			
	ching Speed	N T 4		NT - A - 11 1 1
53	FX^3 Decoders do not use	NA	NA	Not Available
FX^3	CV53			
53 EV	FX Decoders used CV53 to			See instruction sheet for
FX	designate FX effect generated			the FX decoder you are
51	on F3-Brown Wire	00		using
54 FX ³	FX^3 Decoders use CV54 to	00	00=SS Off, TC	
ГΛ	control		On	
	Switching Speed & Torque Compensation		01=SS On, TC On	
	rorque Compensation			
			16=SS Off, TC	

			Off	
			17=SS On, TC	
			Off	
53	FX Decoders used CV54 to			See instruction sheet for
FX	designate FX effect generated			the FX decoder you are
• • •	on F4-White/Yellow Wire			using
Funct				
13	DC Functions ON Not Used	1	Automatic	Not Used FX ³
10	in FX ³		1 Intollinutio	
FX ³ F	Functions			
49	F0F, forward light effect	00	See FX ³	
	white	00	section	
50	FOR, reverse light effect	00	See FX ³	
50	yellow	00	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	beenon	Not Available
114	F4, function 4 white/yellow	00		Not Available
115	F5, Function F5 white/green	00		Not Available
115	F6, Function F6 white/blue	00		Not Available
62	FX Rate and Keep alive	00	00 to 255	
02	adjust	00	00 10 255	
63	Ditch Light Blink hold time	00	00 to 255	
05	Master Light Switch	00	00 10 255	See FX ³ section
Direc	tional Headlights, Transpondir	ng Snlit F	ield Motor	See I'M Section
61	Directional Headlight	Directi	Map F0	Not controlled by CV61
01	Directional Headinght	onal	Forward &	in FX ³ Decoders
		onui	Reverse	
			See CV61	
			Section	
	Transponding	Off	Off or On	
	Transponding	011	See CV61	
			Section	
	Split Field Motor	Off	Off or On	For AC Motors
	1	_	See CV61	
			Section	
Scale	able Speed Stabilization (Back	EMF)		
55	Static Compensation	128	00 to 255	
56	Dynamic Compensation	048	00 to 255	
57	Speed Stabilizer-Droop	006	00 to 15	
	Sonic (Quiet Operation)	1		
09	Motor Frequency SuperSonic	00	00 to 255	Default is MAX
	nced Consisting	1		
19	Advanced Consist Address	00	00 to 255	Default is OFF
21	Advanced Consist Function	00	See CV21-22	
21	Control Override for F1-F8		Section	
22	Advanced Consist Function	00	See CV21-22	
<i></i>		00	500 0 121-22	

	Control Override for F0 & F9-F12		Section	
Funct	tion Mapping			
33-	Function Mapping CVs	00	See Function	
46			Mapping	
			Section	
Decod	Decoder 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.