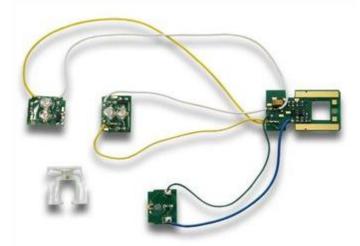
DN143K2 1 Amp N Scale Mobile Decoder for Kato N RDC



Physical Size	Special for Kato N Scale RDC	Current Rating	1.0/1.25 Amps
SIZE			

Interface	Decoder End	Wires		Locomotive End/Plug
Special	For Kato N Scale RDC			For Kato N Scale RDC

# Functions	4	Function Current Rating	125mA	Function Type	RDC Special, CS also available
Prod Date	05/20/2007	Discontinued	Current	Replaced By	Current
MSRP	US\$44.99	Feature Set	Premium		

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	06	See CV29	Must be set to a value
	Controls Multiple Features		Value Table	that allows either 2 digit
			Below	or 4 digit addressing
	iguration Register CV	0.6		
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			
	acteristics			
	leration and Deceleration	1		
03	Acceleration Rate	00	00 to 31	128 Steps
04	Deceleration Rate	00	00 to 31	128 Steps
	e Step Simple Speed Table & St			400.0
02	Start Voltage	00	00 to 255	128 Steps
05	Maximum Voltage	00	00 to 255	128 Steps
				$00, 01 \& 255 = \max_{20}$
				Voltage of step 78
06		00	00 / 255	voltage at step 28
06	Mid Point Voltage	00	00 to 255	128 Steps
06	Mid Point Voltage	00	00 to 255	128 Steps 00 & 01= straight line
				128 Steps
28 St	ep Speed Tables with 256 Step I	Resolution		128 Steps 00 & 01= straight line curve
28 St 65	ep Speed Tables with 256 Step I Kick Start value			128 Steps 00 & 01= straight line curve 128 Step Interpolated
28 St	ep Speed Tables with 256 Step I Kick Start value Forward Trim	Resolution		128 Steps 00 & 01= straight line curve 128 Step Interpolated 128 Step Interpolated
28 St 65 66 67	ep Speed Tables with 256 Step I Kick Start value Forward Trim First Speed Table Entry	Resolution 00 00 00		128 Steps 00 & 01= straight line curve 128 Step Interpolated 128 Step Interpolated 128 Step Interpolated 128 Step Interpolated
28 St 65 66	ep Speed Tables with 256 Step I Kick Start value Forward Trim	Resolution		128 Steps 00 & 01= straight line curve 128 Step Interpolated 128 Step Interpolated
28 St 65 66 67 68-	ep Speed Tables with 256 Step I Kick Start value Forward Trim First Speed Table Entry	Resolution 00 00 00		128 Steps 00 & 01= straight line curve 128 Step Interpolated 128 Step Interpolated 128 Step Interpolated 128 Step Interpolated
28 St 65 66 67 68- 93	ep Speed Tables with 256 Step I Kick Start value Forward Trim First Speed Table Entry 28 Step Speed Table Entries	Resolution 00 00 00 00 00		128 Steps 00 & 01= straight line curve 128 Step Interpolated
28 St 65 66 67 68- 93 94	ep Speed Tables with 256 Step I Kick Start value Forward Trim First Speed Table Entry 28 Step Speed Table Entries Maximum Speed Table Step	Resolution 00 00 00 00 00 00 00 00 00 00 00 00		128 Steps 00 & 01= straight line curve 128 Step Interpolated
28 St 65 66 67 68- 93 94 95	ep Speed Tables with 256 Step I Kick Start value Forward Trim First Speed Table Entry 28 Step Speed Table Entries Maximum Speed Table Step Reverse Trim	Resolution 00 00 00 00 00 00 00 00 00 00 00 00 00		128 Steps00 & 01= straight linecurve128 Step Interpolated128 Step Interpolated
28 St 65 66 67 68- 93 94 95	ep Speed Tables with 256 Step I Kick Start value Forward Trim First Speed Table Entry 28 Step Speed Table Entries Maximum Speed Table Step Reverse Trim	Resolution 00 06 Speed	n See Above	128 Steps00 & 01= straight linecurve128 Step Interpolated128 Step Interpolated
28 St 65 66 67 68- 93 94 95	ep Speed Tables with 256 Step I Kick Start value Forward Trim First Speed Table Entry 28 Step Speed Table Entries Maximum Speed Table Step Reverse Trim	Resolution000000000000000006SpeedTables	n See Above	128 Steps00 & 01= straight linecurve128 Step Interpolated128 Step Interpolated

Switc	hing Speed			
53	FX ³ Decoders do not use	NA	NA	Not Available
FX^3	CV53			
53	FX Decoders used CV53 to			See instruction sheet for
FX	designate FX effect generated			the FX decoder you are
	on F3-Brown Wire			using
54	FX ³ Decoders use CV54 to	00	00=SS Off, TC	
FX^3	control		On	
	Switching Speed &		01=SS On, TC	
	Torque Compensation		On	
			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	tions			
13	DC Functions ON Not Used		Automatic	Not Used FX ³
	in FX ³			
FX ³ F	Functions			
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
Direc	tional Headlights, Transpondir	ng, Split F	ield Motor	
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	

Scale	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	Sonic (Quiet Operation)			
09	Motor Frequency SuperSonic	00	00 to 255	Default is MAX
Adva	nced Consisting			
19	Advanced Consist Address	00	00 to 255	Default is OFF
21	Advanced Consist Function	00	See CV21-22	
	Control Override for F1-F8		Section	
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.
Deco	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.