Digitrax Detection & Signaling Specification Sheet

SE8C Signal Decoder

Turnout/Semaphore Control	Yes, 8 With Slow Motion Machines
Inputs for Occupancy Sensor Links	Yes, 8
Inputs for Control Lines	Yes, 8
DC and DCC Compatible	Yes
Interface	44 Pin Connector
External Power	Yes, (PS14)
Controls Signals	Yes, Manually with Throttle or with Computer Detection Software
Controls Signal Heads	Yes, 32 (4 Signals per Signal Driver Cable)

Prod Date	06/15/2003	Discontinued	Current	Replaced By	Current
MSRP	US$125.00			SKU	

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SE8C Factory Default Settings for Board ID 01

SE8C Driver Socket	Lighting Aspect		"A" Orientation Signals				"B/C" Orientation Signals			
			A₁–Main		A₂–Diverging		B–Main		C–Siding	
			Switch	t/c	Switch	t/c	Switch	t/c	Switch	t/c
DRV1	1	Red	257	t	259	t	261	t	263	t
	2	Green	257	c	259	c	261	c	263	c
	3	Yellow	258	t	260	t	262	t	264	t
	4	Fl Yel*	258	c	260	c	262	c	264	c
DRV2	1	Red	265	t	267	t	269	t	271	t
	2	Green	265	c	267	c	269	c	271	c
	3	Yellow	266	t	268	t	270	t	272	t
	4	Fl Yel*	266	c	268	c	270	c	272	c
DRV3	1	Red	273	t	275	t	277	t	279	t
	2	Green	273	c	275	c	277	c	279	c
	3	Yellow	274	t	276	t	278	t	280	t
	4	Fl Yel*	274	c	276	c	278	c	280	c
DRV4	1	Red	281	t	283	t	285	t	287	t
	2	Green	281	c	283	c	285	c	287	c
	3	Yellow	282	t	284	t	286	t	288	t
	4	Fl Yel*	282	c	284	c	286	c	288	c
DRV5	1	Red	289	t	291	t	293	t	295	t
	2	Green	289	c	291	c	293	c	295	c
	3	Yellow	290	t	292	t	294	t	296	t
	4	Fl Yel*	290	c	292	c	294	c	296	c
DRV6	1	Red	297	t	299	t	301	t	303	t
	2	Green	297	c	299	c	301	c	303	c
	3	Yellow	298	t	300	t	302	t	304	t
	4	Fl Yel*	298	c	300	c	302	c	304	c
DRV7	1	Red	305	t	307	t	309	t	311	t
	2	Green	305	c	307	c	309	c	311	c
	3	Yellow	306	t	308	t	310	t	312	t
	4	Fl Yel*	306	c	308	c	310	c	312	c
DRV8	1	Red	313	t	315	t	317	t	319	t
	2	Green	313	c	315	c	317	c	319	c
	3	Yellow	314	t	316	t	318	t	320	t
	4	Fl Yel*	314	c	316	c	318	c	320	c

Setting the Board ID

Board ID (Press ID Button, set Sw# for Board ID number)	Slow Motion Turnout Machine Switch Address Range 8 Per SE8C	Signal Control Switch Address Range 4 Aspects Per Head 64 Per SE8C	Signal Control Switch Address Range 2 Aspects Per Head 32 Per SE8C
01 (factory setting)	Sw01-Sw08	Sw257-Sw320	Sw257-Sw288
02	Sw09-Sw16	Sw321-Sw384	Sw289-Sw320
03	Sw17-Sw24	Sw385-Sw448	Sw321-Sw352
04	Sw25-Sw32	Sw449-Sw512	Sw353-Sw384
05	Sw33-Sw40	Sw513-Sw576	Sw385-Sw416
06	Sw41-Sw48	Sw577-Sw640	Sw417-Sw448
07	Sw49-Sw56	Sw641-Sw704	Sw449-Sw480
08	Sw57-Sw64	Sw705-Sw768	Sw481-Sw512
09	Sw65-Sw72	Sw769-Sw832	Sw513-Sw544
10	Sw73-Sw80	Sw833-Sw896	Sw545-Sw576
11	Sw81-Sw88	Sw897-Sw960	Sw577-Sw608
12	Sw89-Sw96	Sw961-Sw1024*	Sw609-Sw640

SE8C Option Switch Settings

OpSw	t - thrown	c - closed
01	SE8C Mode Operation	Reserved
02	4 Aspects per head (2 Signal control addresses)	2 Aspects per head (1 Signal control address)

OpSw03	OpSw04	OpSw05	Head Types- for SE8C DRV 1 to 4
t	t	t	DRV1-4 3/3 Dual Heads, Common Anode
t	t	c	DRV1-4 3/3 Dual Heads, Common Cathode
t	c	t	DRV1-4 Searchlight 3 wire LED, Common Anode
t	c	c	DRV1-4 Searchlight 3 wire LED, Common Cathode
c	c	t	DRV1-4 Searchlight 2 wire LED, Standard polarity
c	c	c	DRV1-4 Searchlight 2 wire LED, Reverse polarity

OpSw06	OpSw07	OpSw08	Head Types- for SE8C DRV 5 to 8
t	t	t	DRV5-8 3/3 Dual Heads, Common Anode
t	t	c	DRV5-8 3/3 Dual Heads, Common Cathode
t	c	t	DRV5-8 Searchlight 3 wire LED, Common Anode
t	c	c	DRV5-8 Searchlight 3 wire LED, Common Cathode
c	c	t	DRV5-8 Searchlight 2 wire LED, Standard polarity
c	c	c	DRV5-8 Searchlight 2 wire LED, Reverse polarity

OpSw09	OpSw10	Indication of 4th Aspect
t	t	4th Aspect Flashing Yellow
t	c	4th Aspect Flashing Red
c	t	4th Aspect Dark – Use for approach lighting
c	c	4th Aspect Flashing Green

OpSw	Thrown	Closed
11	default	Semaphore mode (for slow motion turnout machine output)
13	default	Disable DS (detection section) reporting input messages
14	default	Enable SW command from LocoNet (not track packets)
15	default	Disable local switch toggle command
17	default	Next SW command sets signal control address range
18	default	Next SW command sets broadcast address range
19	default	Next SW command sets semaphore control address range
20	default	Set FACTORY default settings
21	Normal operation	Exercise Signal Head Pattern 1 (all heads)