SIGNAL LIGHT DECODER - VARIATIONS

Please download Manual first!

Outputs	CV	CV	Values				
			Variation 1	Variation 2	Variation 3	Variation 4	Variation 5
1+	35	547	3	7	15	15	7
	36	548	1	1	1	1	4
	37	549	0	0	0	0	4
	38	550	0	0	0	0	0
1-	39	551	3	7	15	15	7
	40	552	2	2	2	2	3
	41	553	0	0	0	0	3
	42	554	0	0	0	0	1
2+	43	555	12	7	15	15	0
	44	556	4	4	4	6	0
	45	557	0	0	4	0	0
	46	558	0	0	0	0	0
2-	47	559	12	0	15	15	0
	48	560	8	4	4	8	0
	49	561	0	0	0	0	0
	50	562	0	0	0	0	0
3+	51	563	48	112	240	240	112
	52	564	16	16	16	16	64
	53	565	0	0	0	0	64
	54	566	0	0	0	0	0
3-	55	567	48	112	240	240	112
	56	568	32	32	32	32	48
	57	569	0	0	0	0	48
	58	570	0	0	0	0	16
4+	59	571	192	112	240	240	0
	60	572	64	64	64	96	0
	61	573	0	0	64	0	0
	62	574	0	0	0	0	0
4-	63	575	192	0	240	240	0
	64	576	128	64	64	128	0
	65	577	0	0	0	0	0
	66	578	0	0	0	0	0

Variation 1 (4x 2-aspects - default):

1+ (3+) Green 1
1- (3-) Red 1
2+ (4+) Green 2
2- (4-) Red 2

Variation 2 (3-aspects):

1+ (3+) Green
1- (3-) Yellow
2+ (4+) Red
2- (4-) n/a

Variation 3 (3-aspects):

1+ (3+) Green
1- (3-) Red
2+ (4+) Yellow
2- (4-) same Yellow flashing

Variation 4 (4-aspects):

1+ (3+) Green
1- (3-) Yellow
2+ (4+) Double yellow
2- (4-) Red

Variation 5 (grade crossing light):

1+ two Red flashing alternately (stop)
1- White flashing (free)

Commands 1+, 1-, 2+, 2-, etc. mean output addresses.

For more combinations contact seller:
arosamia@centrum.sk

CV 547 - 578 (output)	Bit							
	1+ (1)	1- (2)	2+ (3)	2- (4)	3+ (5)	3- (6)	4+ (7)	4- (8)
Multipler	1	2	4	8	16	32	64	128

EXPLANATION:

Buttons 1+, 1- (2+, 2-) means controlling accessory with the address 1 (2) on your Hand controller. Other hand controllers may have a difference in the treatment of control, see your user guide.

2-aspects light

As the first example, we will use the default, 2-aspects variation (variation 3) connected to output 1 and 2.
We will need 2 outputs to control 2 LEDs (green and red signal). We assign these outputs in CV547 and 551. The code of the 1st output is 1 and the 2nd output is 2 (see Table 2). That means 1+2=3. Now we can write value 3 to CV address 547 and 551.

The next step is to set up the output what will do lit and what doesn't. Write value 1 to CV548 (output 1 will be active when you press button "1+") and value 2 to CV552 (output 2 will be active when you press the button "1-").

The next option is to add the flashing function. This option works the same as the previous option. Enter value 1 to CV549 and output 1 will be flash if you press the button "1+". Value 2 to CV553 means the output 2 will be flashing if you press the button "1-".

Use CV550 and 554 if you need to change the phase of the lights. This function is helpful if you need double flashing signals as Grade crossing or Police car light bar.

Value 0 written to CV548-562 deactivates output/function!

3-aspect light

We will need 3 outputs to control 3 LEDs (green, red and yellow signal). We assign these outputs in CV547, 551 and 555. The code of the 1st output is 1, the 2nd output is 2 and the 3rd output is 4 (see Table 2). That means 1+2+4=7. Now we can write value 7 to CV address 547, 551 and 555. Write value 0 to CV559 (button 2-) because we do not need this command - we control 3 lights only.

The next step is to set up the output what will do lit and what doesn't. Write value 1 to CV548 (output 1 will be active when you press button "1+"), value 2 to CV552 (output 2 will be active when you press the button "1-") and value 4 to CV556 (output 3 will be active when you press button 2+). Write value 0 to CV560 (button 2-) because we do not need this command - we control 3 lights only.

The flashing and phase function works the same as in case of 2-aspects light.

The programming method is the same as in the case of without flashing.
We will use output 3 (yellow light) and button 2-.

Let's see the CV values:
command 1+
547 = 7 (1+2+4)
548 = 1 (1st out)
549 = 0 (no flashing)
550 = 0 (phase off)
command 1-
551 = 7
552 = 2 (2nd out)
553 = 0
554 = 0
command 2+
555 = 7
556 = 4 (3rn out)
557 = 0 (3rn out lit)
558 = 0
command 2-
559 = 7
560 = 4 (3rn out)
561 = 4 (3rn out with flashing)
562 = 0

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