

EXHIBIT C – Loop Installation Guide

FCC ID 070-SPR

ALLOWED INDUCTIVE LOOP ANTENNAS FOR SPRITE

The 2 channel inductive loop detector was designed to operate in the FCC allowed RF Frequency for sizes and inductance values listed in chart below. Size, shape, number of turns and inductance are critical to keep in the operating frequency within the FCC allowed limits. Loop sizes and turns shown in the yellow area of the card will cause the detector to operate outside of the FCC legal frequency. Also, due to their small size and few turns loops in the yellow area detect vehicles poorly.

We recommend a minimum of at least (3) turns. We also recommend to obtain maximum sensitivity, you keep the total inductance below 200 microhenries. If loop antenna is any other size then those listed below, please Contact Diamond Traffic Products for assistance.

Numbers indicate microhenries.

Length (Feet)	Width (Feet)	1 Turn	2 Turns	3 Turns	4 Turns	5 Turns
2	4	5	16	33	55	81
2	6	6	22	45	75	112
2	8	8	28	57	95	142
4	4	7	23	47	79	118
4	6	9	29	61	103	153
4	8	10	36	75	126	188
4	10	12	43	89	149	223
4	12	14	49	102	172	257
4	14	16	56	116	195	292
4	16	18	62	129	218	326
5	5	9	30	72	104	155
5	8	11	40	83	140	209
5	10	13	52	97	164	245
6	6	11	37	76	129	192
6	8	13	44	91	154	230
6	10	14	51	106	178	267
6	12	16	58	120	203	305
6	14	18	65	135	228	342
6	16	20	71	149	252	379
6	18	22	78	164	277	416
6	20	24	85	178	301	452

Length (Feet)	Width (Feet)	1 Turn	2 Turns	3 Turns	4 Turns	5 Turns
6	22	26	92	193	326	489
6	24	28	99	207	350	526
8	8	15	51	107	180	270