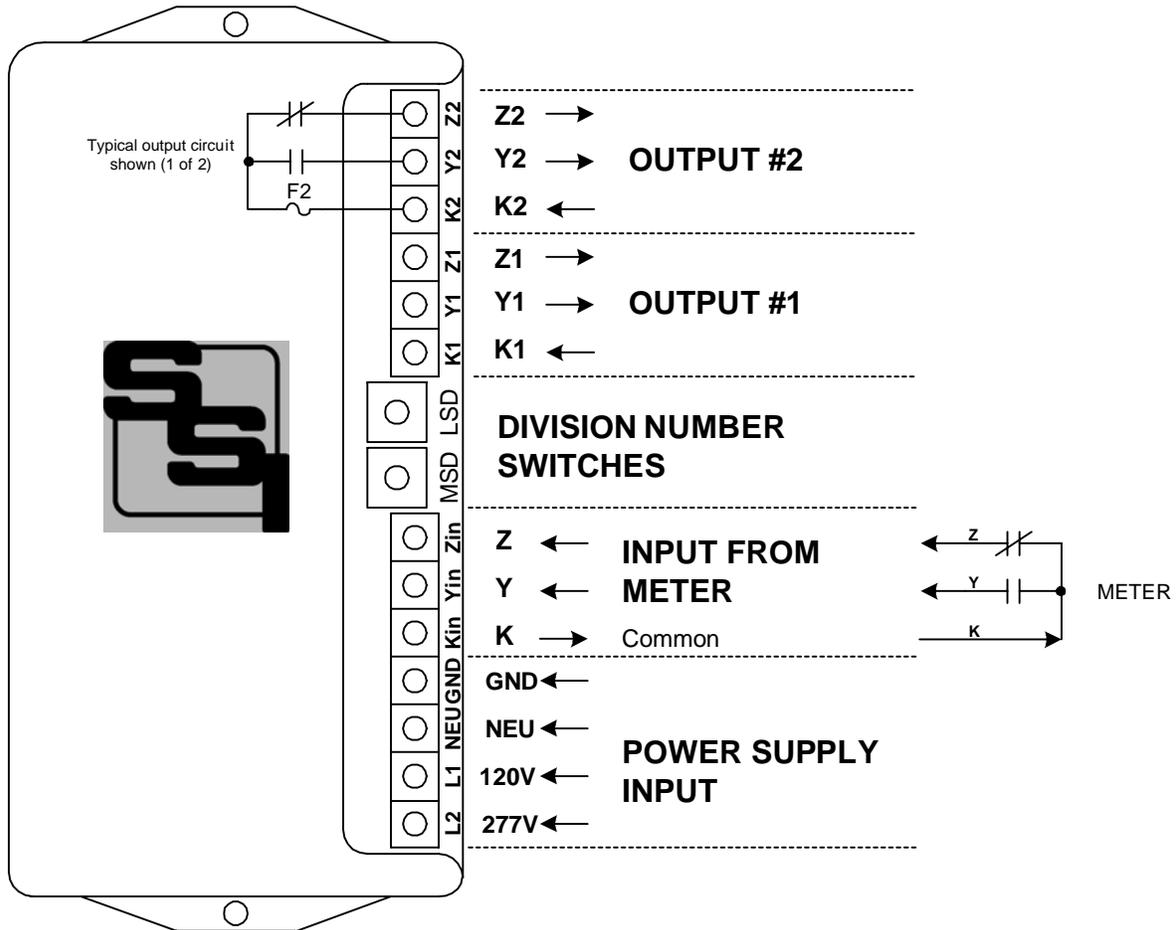


# DPR-22PS

*Elite Solid State*

# DIVIDING PULSE RELAY INSTRUCTION SHEET



**MOUNTING POSITION** - The DPR-22PS may be mounted in any position.

**POWER INPUT** - For a supply voltage of 120 VAC, connect the hot lead to the **L1** terminal. For 208 to 277VAC, connect the hot lead to the **L2** terminal. Connect the neutral lead to the **NEU** terminal. Connect the **GND** terminal to the electrical system ground.

**METER CONNECTIONS** - The DPR-22PS can be used with either a 2 wire or 3-wire metering system. The DPR-22PS's "K", "Y" and "Z" input terminals should be connected to the meter's "K", "Y" and "Z" terminals: "K" to "K", "Y" to "Y", and "Z" to "Z". (Z not used in 2-wire input format.) The DPR-22PS' "K" is common & provides the return from the meter's K terminal. The "Y" and "Z" inputs provide a "pulled-up" +13VDC to the meter's "Y" and "Z" terminals. Jumper J1 must be in the correct position for the input configuration format used.

**FUSES** - The fuses are 3AG or AGC type and may be up to 1/2 Amp in size. Two 1/2 Amp fuses (F1 and F2) are supplied standard with the unit unless otherwise specified.

**OUTPUTS** - Two 3-wire isolated outputs are provided on the DPR-22PS. MOV transient suppression for the contacts of the solid state relays is provided internally.

**DIVISION NUMBER SWITCHES** - The division number switches, located between the input and output terminal blocks, should be set to the desired division number (ratio) between the input and output pulses. See the table (reverse side of this sheet) for dividing number switch settings from 1 to 255.



## SOLID STATE INSTRUMENTS

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# DPR-22

## DIVISION ENTRY TABLE

To Divide														
By	MSD	LSD												
Switches			Switches			Switches			Switches			Switches		
1	0	1	52	3	4	103	6	7	154	9	A	205	C	D
2	0	2	53	3	5	104	6	8	155	9	B	206	C	E
3	0	3	54	3	6	105	6	9	156	9	C	207	C	F
4	0	4	55	3	7	106	6	A	157	9	D	208	D	0
5	0	5	56	3	8	107	6	B	158	9	E	209	D	1
6	0	6	57	3	9	108	6	C	159	9	F	210	D	2
7	0	7	58	3	A	109	6	D	160	A	0	211	D	3
8	0	8	59	3	B	110	6	E	161	A	1	212	D	4
9	0	9	60	3	C	111	6	F	162	A	2	213	D	5
10	0	A	61	3	D	112	7	0	163	A	3	214	D	6
11	0	B	62	3	E	113	7	1	164	A	4	215	D	7
12	0	C	63	3	F	114	7	2	165	A	5	216	D	8
13	0	D	64	4	0	115	7	3	166	A	6	217	D	9
14	0	E	65	4	1	116	7	4	167	A	7	218	D	A
15	0	F	66	4	2	117	7	5	168	A	8	219	D	B
16	1	0	67	4	3	118	7	6	169	A	9	220	D	C
17	1	1	68	4	4	119	7	7	170	A	A	221	D	D
18	1	2	69	4	5	120	7	8	171	A	B	222	D	E
19	1	3	70	4	6	121	7	9	172	A	C	223	D	F
20	1	4	71	4	7	122	7	A	173	A	D	224	E	0
21	1	5	72	4	8	123	7	B	174	A	E	225	E	1
22	1	6	73	4	9	124	7	C	175	A	F	226	E	2
23	1	7	74	4	A	125	7	D	176	B	0	227	E	3
24	1	8	75	4	B	126	7	E	177	B	1	228	E	4
25	1	9	76	4	C	127	7	F	178	B	2	229	E	5
26	1	A	77	4	D	128	8	0	179	B	3	230	E	6
27	1	B	78	4	E	129	8	1	180	B	4	231	E	7
28	1	C	79	4	F	130	8	2	181	B	5	232	E	8
29	1	D	80	5	0	131	8	3	182	B	6	233	E	9
30	1	E	81	5	1	132	8	4	183	B	7	234	E	A
31	1	F	82	5	2	133	8	5	184	B	8	235	E	B
32	2	0	83	5	3	134	8	6	185	B	9	236	E	C
33	2	1	84	5	4	135	8	7	186	B	A	237	E	D
34	2	2	85	5	5	136	8	8	187	B	B	238	E	E
35	2	3	86	5	6	137	8	9	188	B	C	239	E	F
36	2	4	87	5	7	138	8	A	189	B	D	240	F	0
37	2	5	88	5	8	139	8	B	190	B	E	241	F	1
38	2	6	89	5	9	140	8	C	191	B	F	242	F	2
39	2	7	90	5	A	141	8	D	192	C	0	243	F	3
40	2	8	91	5	B	142	8	E	193	C	1	244	F	4
41	2	9	92	5	C	143	8	F	194	C	2	245	F	5
42	2	A	93	5	D	144	9	0	195	C	3	246	F	6
43	2	B	94	5	E	145	9	1	196	C	4	247	F	7
44	2	C	95	5	F	146	9	2	197	C	5	248	F	8
45	2	D	96	6	0	147	9	3	198	C	6	249	F	9
46	2	E	97	6	1	148	9	4	199	C	7	250	F	A
47	2	F	98	6	2	149	9	5	200	C	8	251	F	B
48	3	0	99	6	3	150	9	6	201	C	9	252	F	C
49	3	1	100	6	4	151	9	7	202	C	A	253	F	D
50	3	2	101	6	5	152	9	8	203	C	B	254	F	E
51	3	3	102	6	6	153	9	9	204	C	C	255	F	F

EXAMPLE: If for 200 input pulses you wish an output of 4 pulses, the division ratio is 50:1 therefore set the MSD switch to 3 and the LSD switch to 2. This causes a 50-1 division to occur.