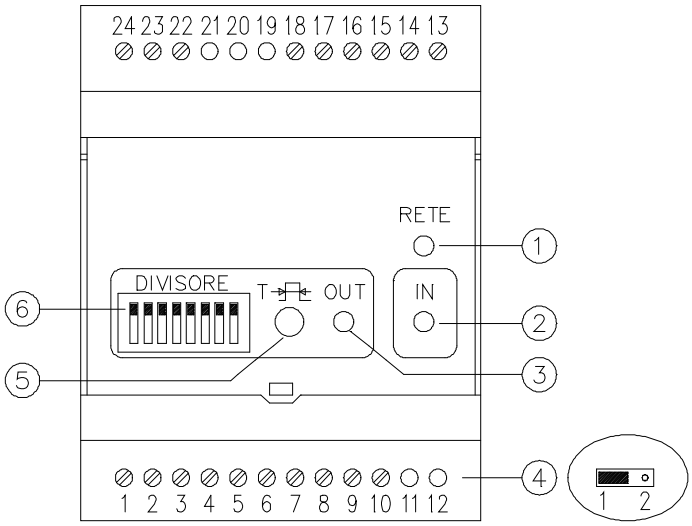
POWER-SUPPLY FOR ON/OFF SENSORS **S 112 M**
UNIVERSAL INPUT - INCORPORATED PULSES DIVIDER - 5 OUTPUTS

FEATURES

S 112 M is a fpower-supply for ON/OFF sensors , its features follows :

- **Inputs** : optoisolated to receive signals from sensors: reed (contact), NPN 2 wires, NPN 3 wires 24Vdc, NPN 3 wires 12Vdc, PNP 2 wires, PNP 3 wires 24Vdc, Namur, pulses 24Vdc and photoelectric.
  Max. frequency 400Hz, min. pulse duration 2ms.
- **Divider** : you can divide pulses in input for a factor you can program from 1 to 256 by 8 DIP-switches on front panel.
- **Outputs** : 5 reed-relays each SPST switch Vmax=100Vcc/50Vca, Imax=0,5A Pmax =10W (resistive load).
  Mechanical relay life 100.000.000 operations.
- **Pulses duration** : You can select output pulse that has the same life of the input one,or with fix duration adjustable by 15 to 250 ms by a trimmer on front panel.
- **Warings** : green LED RETE : equipment on;
  red LED INGRESSO : pulse input;
  red LED USCITA : pulse output.
- **Temperature** : -20° / +60° C.
- **Humidity** : 40 % at 40° C (not condensing).
- **Box** : 4 modules DIN 46277, gray autoextinguishing noryl, to be coupled on 35mm guide.
- **Size** : 70 x 90 x 71 mm.
- **Weight** : 250 g approx.
- **Power-supply** : S112M-1-ST 115 / 230 Vac ± 10 % 50 / 60 Hz
  S112M-23-ST 24 Vdc-ac ± 10 %
- **Consumption** : 1,5 VA.



1 green LED on if powered.
2 red LED on when pulse in input.
3 red LED ron when pulse in output.
4 Working selector:
- 1 position out pulse has a life equal to in pulse.
- 2 position out pulse has a life independent from in pulse. Duration can be changed from 50ms to 1 s approx. operating on trimmer 5.

5 Trimmer to adjust pulse's life. Active only if 4 selector is in 2 position.
6 DIP-switch to program divider (see page 3).

DEFAULT SETTING:
OUTPUT PULSES DURATION =25mS
PULSES DIVIDER=1
WARNING: WITH THIS SET, MAXIMUM FREQUENCY EQUAL TO 40Hz.

Note: To reach the jumper (4) it is necessary to remove plastic terminal cover by a screwdriver.

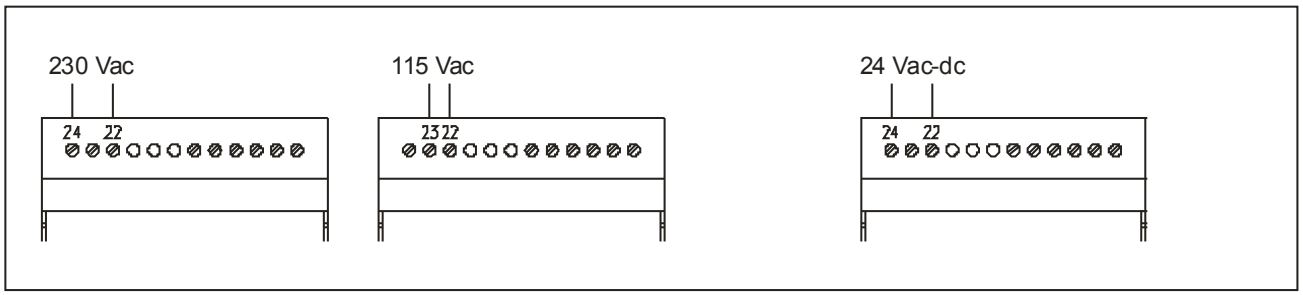
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WIRINGS

POWER SUPPLY

S112M-1-ST

S112M-23-ST

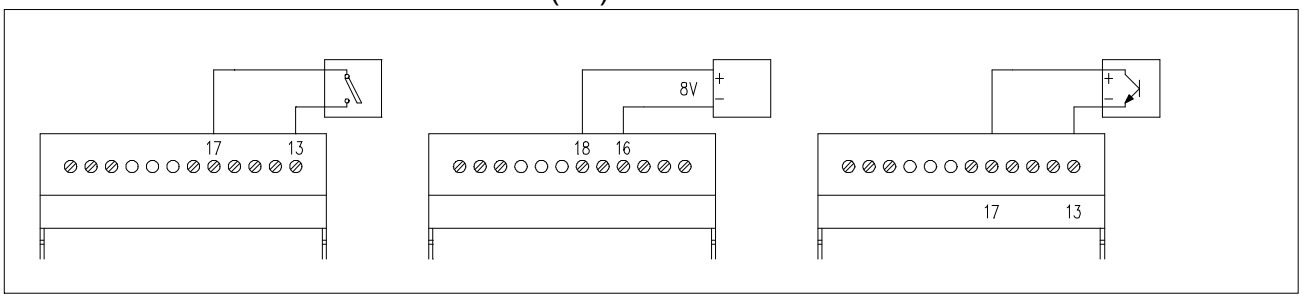


INGRESSI / INPUTS

Reed

NAMUR (8V)

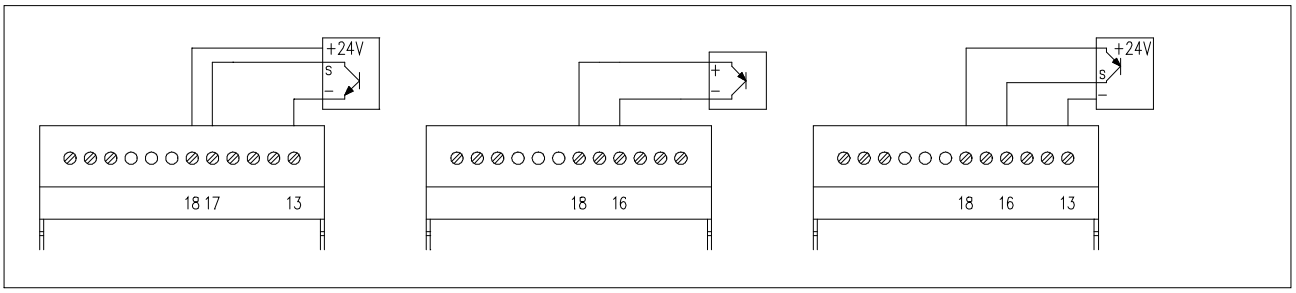
NPN 2 wires



NPN 3 wires

PNP 2 wires

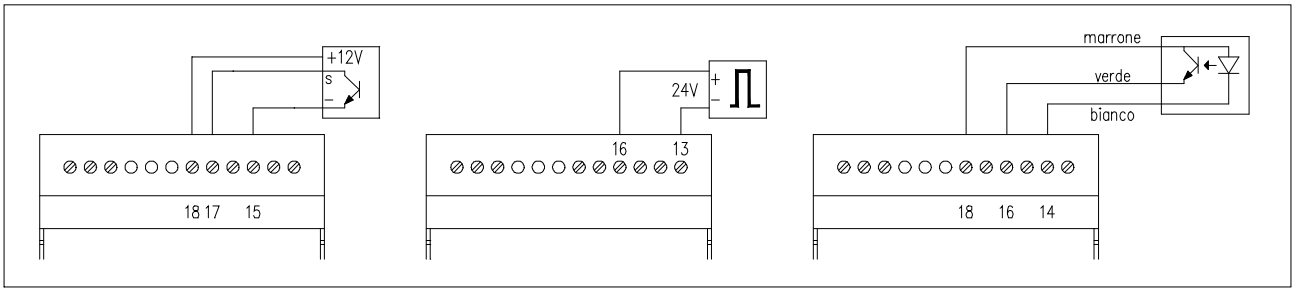
PNP 3 wires



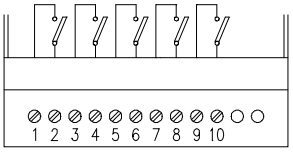
NPN 3 wires

Pulses (24V)

Photoelectric sensor



OUTPUTS



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PROGRAMMAZIONE DEL DIVISORE (0 = DIP-switch in OFF, 1 = DIP-switch in ON)
HOW TO PROGRAM DIVIDER (0 = DIP-switch OFF, 1 = DIP-switch ON)

n	1 2 3 4 5 6 7 8	n	1 2 3 4 5 6 7 8	n	1 2 3 4 5 6 7 8	n	1 2 3 4 5 6 7 8
1	1 1 1 1 1 1 1 1	65	1 0 1 1 1 1 1 1	129	0 1 1 1 1 1 1 1	193	0 0 1 1 1 1 1 1
2	1 1 1 1 1 1 1 0	66	1 0 1 1 1 1 1 0	130	0 1 1 1 1 1 1 0	194	0 0 1 1 1 1 1 0
3	1 1 1 1 1 1 0 1	67	1 0 1 1 1 1 0 1	131	0 1 1 1 1 1 0 1	195	0 0 1 1 1 1 0 1
4	1 1 1 1 1 1 0 0	68	1 0 1 1 1 1 0 0	132	0 1 1 1 1 1 0 0	196	0 0 1 1 1 1 0 0
5	1 1 1 1 1 0 1 1	69	1 0 1 1 1 0 1 1	133	0 1 1 1 1 0 1 1	197	0 0 1 1 1 0 1 1
6	1 1 1 1 1 0 1 0	70	1 0 1 1 1 0 1 0	134	0 1 1 1 1 0 1 0	198	0 0 1 1 1 0 1 0
7	1 1 1 1 1 0 0 1	71	1 0 1 1 1 0 0 1	135	0 1 1 1 1 0 0 1	199	0 0 1 1 1 0 0 1
8	1 1 1 1 1 0 0 0	72	1 0 1 1 1 0 0 0	136	0 1 1 1 1 0 0 0	200	0 0 1 1 1 0 0 0
9	1 1 1 1 0 1 1 1	73	1 0 1 1 0 1 1 1	137	0 1 1 1 0 1 1 1	201	0 0 1 1 0 1 1 1
10	1 1 1 1 0 1 1 0	74	1 0 1 1 0 1 1 0	138	0 1 1 1 0 1 1 0	202	0 0 1 1 0 1 1 0
11	1 1 1 1 0 1 0 1	75	1 0 1 1 0 1 0 1	139	0 1 1 1 0 1 0 1	203	0 0 1 1 0 1 0 1
12	1 1 1 1 0 1 0 0	76	1 0 1 1 0 1 0 0	140	0 1 1 1 0 1 0 0	204	0 0 1 1 0 1 0 0
13	1 1 1 1 0 0 1 1	77	1 0 1 1 0 0 1 1	141	0 1 1 1 0 0 1 1	205	0 0 1 1 0 0 1 1
14	1 1 1 1 0 0 1 0	78	1 0 1 1 0 0 1 0	142	0 1 1 1 0 0 1 0	206	0 0 1 1 0 0 1 0
15	1 1 1 1 0 0 0 1	79	1 0 1 1 0 0 0 1	143	0 1 1 1 0 0 0 1	207	0 0 1 1 0 0 0 1
16	1 1 1 1 0 0 0 0	80	1 0 1 1 0 0 0 0	144	0 1 1 1 0 0 0 0	208	0 0 1 1 0 0 0 0
17	1 1 1 0 1 1 1 1	81	1 0 1 0 1 1 1 1	145	0 1 1 0 1 1 1 1	209	0 0 1 0 1 1 1 1
18	1 1 1 0 1 1 1 0	82	1 0 1 0 1 1 1 0	146	0 1 1 0 1 1 1 0	210	0 0 1 0 1 1 1 0
19	1 1 1 0 1 1 0 1	83	1 0 1 0 1 1 0 1	147	0 1 1 0 1 1 0 1	211	0 0 1 0 1 1 0 1
20	1 1 1 0 1 1 0 0	84	1 0 1 0 1 1 0 0	148	0 1 1 0 1 1 0 0	212	0 0 1 0 1 1 0 0
21	1 1 1 0 1 0 1 1	85	1 0 1 0 1 0 1 1	149	0 1 1 0 1 0 1 1	213	0 0 1 0 1 0 1 1
22	1 1 1 0 1 0 1 0	86	1 0 1 0 1 0 1 0	150	0 1 1 0 1 0 1 0	214	0 0 1 0 1 0 1 0
23	1 1 1 0 1 0 0 1	87	1 0 1 0 1 0 0 1	151	0 1 1 0 1 0 0 1	215	0 0 1 0 1 0 0 1
24	1 1 1 0 1 0 0 0	88	1 0 1 0 1 0 0 0	152	0 1 1 0 1 0 0 0	216	0 0 1 0 1 0 0 0
25	1 1 1 0 0 1 1 1	89	1 0 1 0 0 1 1 1	153	0 1 1 0 0 1 1 1	217	0 0 1 0 0 1 1 1
26	1 1 1 0 0 1 1 0	90	1 0 1 0 0 1 1 0	154	0 1 1 0 0 1 1 0	218	0 0 1 0 0 1 1 0
27	1 1 1 0 0 1 0 1	91	1 0 1 0 0 1 0 1	155	0 1 1 0 0 1 0 1	219	0 0 1 0 0 1 0 1
28	1 1 1 0 0 1 0 0	92	1 0 1 0 0 1 0 0	156	0 1 1 0 0 1 0 0	220	0 0 1 0 0 1 0 0
29	1 1 1 0 0 0 1 1	93	1 0 1 0 0 0 1 1	157	0 1 1 0 0 0 1 1	221	0 0 1 0 0 0 1 1
30	1 1 1 0 0 0 1 0	94	1 0 1 0 0 0 1 0	158	0 1 1 0 0 0 1 0	222	0 0 1 0 0 0 1 0
31	1 1 1 0 0 0 0 1	95	1 0 1 0 0 0 0 1	159	0 1 1 0 0 0 0 1	223	0 0 1 0 0 0 0 1
32	1 1 1 0 0 0 0 0	96	1 0 1 0 0 0 0 0	160	0 1 1 0 0 0 0 0	224	0 0 1 0 0 0 0 0
33	1 1 0 1 1 1 1 1	97	1 0 0 1 1 1 1 1	161	0 1 0 1 1 1 1 1	225	0 0 0 1 1 1 1 1
34	1 1 0 1 1 1 1 0	98	1 0 0 1 1 1 1 0	162	0 1 0 1 1 1 1 0	226	0 0 0 1 1 1 1 0
35	1 1 0 1 1 1 0 1	99	1 0 0 1 1 1 0 1	163	0 1 0 1 1 1 0 1	227	0 0 0 1 1 1 0 1
36	1 1 0 1 1 1 0 0	100	1 0 0 1 1 1 0 0	164	0 1 0 1 1 1 0 0	228	0 0 0 1 1 1 0 0
37	1 1 0 1 1 0 1 1	101	1 0 0 1 1 0 1 1	165	0 1 0 1 1 0 1 1	229	0 0 0 1 1 0 1 1
38	1 1 0 1 1 0 1 0	102	1 0 0 1 1 0 1 0	166	0 1 0 1 1 0 1 0	230	0 0 0 1 1 0 1 0
39	1 1 0 1 1 0 0 1	103	1 0 0 1 1 0 0 1	167	0 1 0 1 1 0 0 1	231	0 0 0 1 1 0 0 1
40	1 1 0 1 1 0 0 0	104	1 0 0 1 1 0 0 0	168	0 1 0 1 1 0 0 0	232	0 0 0 1 1 0 0 0
41	1 1 0 1 0 1 1 1	105	1 0 0 1 0 1 1 1	169	0 1 0 1 0 1 1 1	233	0 0 0 1 0 1 1 1
42	1 1 0 1 0 1 1 0	106	1 0 0 1 0 1 1 0	170	0 1 0 1 0 1 1 0	234	0 0 0 1 0 1 1 0
43	1 1 0 1 0 1 0 1	107	1 0 0 1 0 1 0 1	171	0 1 0 1 0 1 0 1	235	0 0 0 1 0 1 0 1
44	1 1 0 1 0 1 0 0	108	1 0 0 1 0 1 0 0	172	0 1 0 1 0 1 0 0	236	0 0 0 1 0 1 0 0
45	1 1 0 1 0 0 1 1	109	1 0 0 1 0 0 1 1	173	0 1 0 1 0 0 1 1	237	0 0 0 1 0 0 1 1
46	1 1 0 1 0 0 1 0	110	1 0 0 1 0 0 1 0	174	0 1 0 1 0 0 1 0	238	0 0 0 1 0 0 1 0
47	1 1 0 1 0 0 0 1	111	1 0 0 1 0 0 0 1	175	0 1 0 1 0 0 0 1	239	0 0 0 1 0 0 0 1
48	1 1 0 1 0 0 0 0	112	1 0 0 1 0 0 0 0	176	0 1 0 1 0 0 0 0	240	0 0 0 1 0 0 0 0
49	1 1 0 0 1 1 1 1	113	1 0 0 0 1 1 1 1	177	0 1 0 0 1 1 1 1	241	0 0 0 0 1 1 1 1
50	1 1 0 0 1 1 1 0	114	1 0 0 0 1 1 1 0	178	0 1 0 0 1 1 1 0	242	0 0 0 0 1 1 1 0
51	1 1 0 0 1 1 0 1	115	1 0 0 0 1 1 0 1	179	0 1 0 0 1 1 0 1	243	0 0 0 0 1 1 0 1
52	1 1 0 0 1 1 0 0	116	1 0 0 0 1 1 0 0	180	0 1 0 0 1 1 0 0	244	0 0 0 0 1 1 0 0
53	1 1 0 0 1 0 1 1	117	1 0 0 0 1 0 1 1	181	0 1 0 0 1 0 1 1	245	0 0 0 0 1 0 1 1
54	1 1 0 0 1 0 1 0	118	1 0 0 0 1 0 1 0	182	0 1 0 0 1 0 1 0	246	0 0 0 0 1 0 1 0
55	1 1 0 0 1 0 0 1	119	1 0 0 0 1 0 0 1	183	0 1 0 0 1 0 0 1	247	0 0 0 0 1 0 0 1
56	1 1 0 0 1 0 0 0	120	1 0 0 0 1 0 0 0	184	0 1 0 0 1 0 0 0	248	0 0 0 0 1 0 0 0
57	1 1 0 0 0 1 1 1	121	1 0 0 0 0 1 1 1	185	0 1 0 0 0 1 1 1	249	0 0 0 0 0 1 1 1
58	1 1 0 0 0 1 1 0	122	1 0 0 0 0 1 1 0	186	0 1 0 0 0 1 1 0	250	0 0 0 0 0 1 1 0
59	1 1 0 0 0 1 0 1	123	1 0 0 0 0 1 0 1	187	0 1 0 0 0 1 0 1	251	0 0 0 0 0 1 0 1
60	1 1 0 0 0 1 0 0	124	1 0 0 0 0 1 0 0	188	0 1 0 0 0 1 0 0	252	0 0 0 0 0 1 0 0
61	1 1 0 0 0 0 1 1	125	1 0 0 0 0 0 1 1	189	0 1 0 0 0 0 1 1	253	0 0 0 0 0 0 1 1
62	1 1 0 0 0 0 1 0	126	1 0 0 0 0 0 1 0	190	0 1 0 0 0 0 1 0	254	0 0 0 0 0 0 1 0
63	1 1 0 0 0 0 0 1	127	1 0 0 0 0 0 0 1	191	0 1 1 0 0 0 0 1	255	0 0 0 0 0 0 0 1
64	1 1 0 0 0 0 0 0	128	1 0 0 0 0 0 0 0	192	0 1 1 0 0 0 0 0	256	0 0 0 0 0 0 0 0

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