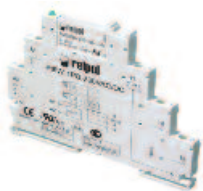


# PIR6W-1PS

## Subminiature Electromagnetic and Solid State Modules



- Screw Clamp Terminals
- Electronic screw terminals socket (PI6W-1PS)
- Electromagnetic relay (RM699BV) or solid state relay (RSR30)
- Width 6.2 mm
- Equipped with green LED



### PIR6W-1PS

#### Electromagnetic Relay (RM699BV) contact information

Number and type of contacts (code of output)	SPDT (R)	SPDT (R-01)
Contact material	AgSnO <sub>2</sub>	AgSnO <sub>2</sub> / Au3μm
Max. switching voltage	400 V AC / 250 V DC	30 V AC / 36 V DC
Min. switching voltage	10 V	5 V
Rated load	6 A / 250 V AC	0.05 A / 30 V AC
	6 A / 24 V DC; 0.15 A / 250 V DC	0.05 A / 36 V DC
Min. switching current	100 mA	10 mA
Max. inrush current	10 A 20 ms	0.1 A 20 ms
<b>Rated current</b>	<b>6A</b>	<b>0.05A</b>
Max. / Min. breaking capacity	1500 VA / 1 W	1.2 VA / 0.05 W
Contact resistance	≤ 100 mΩ 100 mA. 24 V	≤ 30 mΩ 10 mA. 5 V
Max. operating frequency	360 cycles/hour	360 cycles/hour
• at rated load	72 000 cycles/hour	72 000 cycles/hour
• no load		

#### Solid State (RSR30) output information

Type of output (code of output)	Triac (T) max. 2 A	Transistor (C) max. 1 A	Transistor (O) max. 2 A
Number and type of outputs	SPST (1 NO)	SPST (1 NO)	SPST (1 NO)
Rated voltage	240 V AC	48 V DC	24 V DC
Max. / Min. output voltage	280 V AC / 12 V AC	60 V DC / 1.5 V DC	32 V DC / 1.5 V DC
Rated continuous output current	1A	1A	2A
Min. making capacity current	50 mA	1 mA	1 mA
Max. off-state leakage current (rest condition)	1.5 mA	1 mA	1 mA
Max. on-state voltage drop on the connection (operating state)	1.2 V	0.4 V	0.24 V
Operating switching frequency		10 Hz	10 Hz

#### Input Circuit

Rated voltage	DC AC: 50/60 Hz AC/DC	6 ... 60 V 24 ... 230 V
Must release voltage		AC: ≥ 0.2 U <sub>n</sub> ; DC: ≥ 0.1 U <sub>n</sub>
Operating range of supply voltage		0.8...1.2 U <sub>n</sub> ; 0.85...1.2 U <sub>n</sub> 6 V DC
Must operate voltage		≤ 0.8 U <sub>n</sub> ; ≤ 0.85 U <sub>n</sub> 6 V DC
Rated power consumption	DC AC/DC	0.2 ... 0.5 W 0.5 ... 1.2 VA / 0.4 ... 1.2 W

#### Insulation

Insulation rated voltage	250 V AC
Rated surge voltage	4000 V 1.2 / 50 μs
Overvoltage category	III
Insulation pollution degree	3
Dielectric strength: input - output	4000 V AC 50/60 Hz. 1 min.. type of insulation: reinforced
Dielectric strength: input - output	6000 V 1.2 / 50 μs
Dielectric strength: mass - input. output	2500 V AC 50/60 Hz. 1 min.
Dielectric strength: contact clearance	1000 V AC 50/60 Hz. 1 min.. output R and R-01
Input - output distance: clearance / creepage	≥ 6 mm / ≥ 8 mm
Mass - input. output distance: clearance / creepage	≥ 3 mm / ≥ 3.6 mm

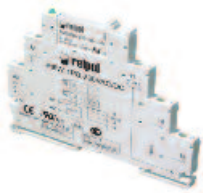
#### General data

Operating time (typical value)	PIR6W-1PS-...-R/-R01: DC: 8 ms AC/DC: 20 ms
	PIR6W-1PS-...-T: DC: 100 μs AC/DC: 10 ms
	PIR6W-1PS-...-C/-O: DC: 50 μs AC/DC: 10 ms
Release time (typical value)	PIR6W-1PS-...-R/-R01: DC: 10 ms AC/DC: 25 ms
	PIR6W-1PS-...-T: DC: 1/2 cycle + 1 ms AC/DC: 30 ms
	PIR6W-1PS-...-C/-O: DC: 600 μs AC/DC: 20 ms
Electrical life (resistive AC1)	PIR6W-1PS-...-R: > 0.5 x 10 <sup>6</sup> 6 A. 250 V AC
Mechanical life (cycles)	PIR6W-1PS-...-R/-R01: > 10 <sup>7</sup>
Dimensions (L x W x H)	98.5 x 6.2 x 85.5 mm
Weight	45 g
Ambient temperature: storage	PIR6W-1PS-...-R/-R01-T: -40...+70 °C ...-C/-O: -25...+70 °C
Ambient temperature: operating	PIR6W-1PS-...-R/-R01: -40...+55 °C ...-T/-C/-O: -20...+55 °C
	PIR6W-1PS-230VAC/DC-R: -40...+50 °C ...-C/-O: -20...+50 °C
Protection category	IP 20 PN-EN 60529
Environmental protection	RTI PN-EN 116000-3
Shock resistance	10 g
Vibration resistance	5 g 10...500 Hz

T - triac; C - transistor; O - transistor.

# PIR6W-1PS

Subminiature Electromagnetic and Solid State Modules

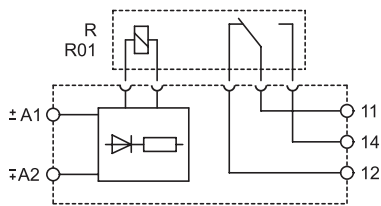


## PIR6W-1PS

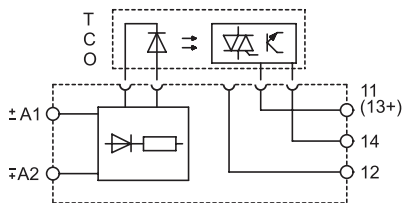


### CONNECTION DIAGRAMS

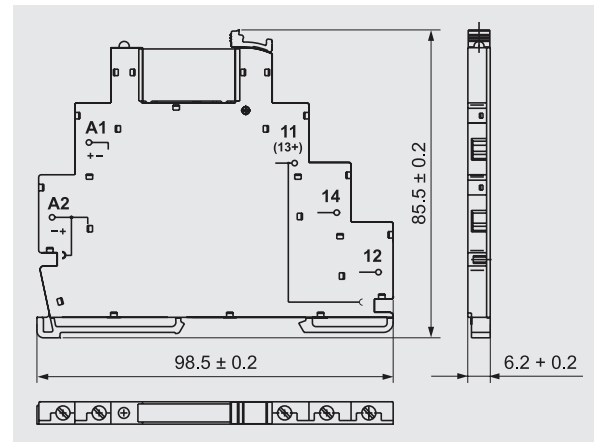
PIR6W-1PS-...-R, PIR6W-1PS-...-R01



PIR6W-1PS-...-T, PIR6W-1PS-...-C, PIR6W-1PS-...-O



### DIMENSIONS



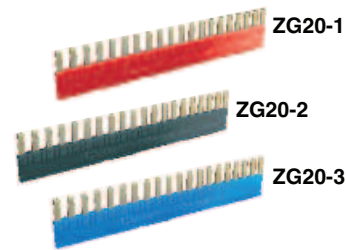
PI6W-1P-...



RM699BV



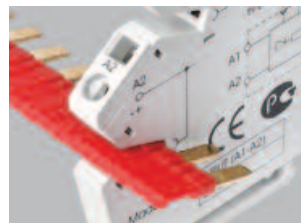
RSR30



PI6W-1246



**Green LED:**  
signalling the operation status of the relay.



**Interconnection strip ZG20:**  
bridging of common input or output signals.



**Movable ejector:** protection and easy replacement of the operational relay.

All accessories are sold separately.

# PIR6W-1PS

## Subminiature Electromagnetic and Solid State Modules

### Electromagnetic Relays

#### Featuring Electromagnetic relay RM699BV / 6A; 250VAC / 24VDC

Part Number	Rated input voltage $U_n$	Power of input circuit	Socket code	*Operational relay code	Rated voltage of operational relay $U_s$
PIR6W-1PS-6VDC-R	6 V DC	0.3 W	PI6W-1PS-6VDC	RM699BV-3011-85-1005	5 V DC
PIR6W-1PS-12VDC-R	12 V DC	0.2 W	PI6W-1PS-12/24VDC	RM699BV-3011-85-1012	12 V DC
▶ <b>PIR6W-1PS-24VDC-R</b>	24 V DC	0.3 W	PI6W-1PS-12/24VDC	RM699BV-3011-85-1024	24 V DC
PIR6W-1PS-36VDC-R	36 V DC	0.3 W	PI6W-1PS-36VDC	RM699BV-3011-85-1024	24 V DC
PIR6W-1PS-48VDC-R	48 V DC	0.4 W	PI6W-1PS-48VDC	RM699BV-3011-85-1024	24 V DC
PIR6W-1PS-60VDC-R	60 V DC	0.5 W	PI6W-1PS-60VDC	RM699BV-3011-85-1024	24 V DC
▶ <b>PIR6W-1PS-24VAC/DC-R</b>	24 V AC/DC	0.5 VA / 0.4 W	PI6W-1PS-24VAC/DC	RM699BV-3011-85-1012	12 V DC
PIR6W-1PS-42VAC/DC-R	42 V AC/DC	0.5 VA / 0.4 W	PI6W-1PS-42VAC/DC	RM699BV-3011-85-1024	24 V DC
▶ <b>PIR6W-1PS-115VAC/DC-R</b>	115 V AC/DC	1.2 VA / 1.2 W	PI6W-1PS-115VAC/DC	RM699BV-3011-85-1024	24 V DC
PIR6W-1PS-230VAC/DC-R	230 V AC/DC	1.2 VA / 1.2 W	PI6W-1PS-230VAC/DC	RM699BV-3011-85-1048	48 V DC

#### Electromagnetic relay RM699BV / 6A; 250VAC / 24VDC universal input

Part Number	Rated input voltage $U_n$	Power of input circuit	Socket code	*Operational relay code	Rated voltage of operational relay $U_s$
▶ <b>PIR6W-1P-12U</b>	12 V DC	0.3 W	PI6W-1P-12VDC	RM699BV-3011-85-1012	12 V DC
▶ <b>PIR6W-1P-24U</b>	24 V AC/DC	0.3 VA / 0.3 W	PI6W-1P-24VAC/DC	RM699BV-3011-85-1024	24 V DC
▶ <b>PIR6W-1P-115U</b>	115 V AC/DC	0.9 VA / 0.9 W	PI6W-1P-115VAC/DC	RM699BV-3011-85-1024	24 V DC
▶ <b>PIR6W-1P-230V AC/DC</b>	230 V AC/DC	0.8 VA / 0.8 W	PI6W-1P-230VAC/DC	RM699BV-3011-85-1060	60 V DC

#### Featuring Electromagnetic relay RM699BV / 0.05A; 30VAC / 36VDC. gold plated contacts

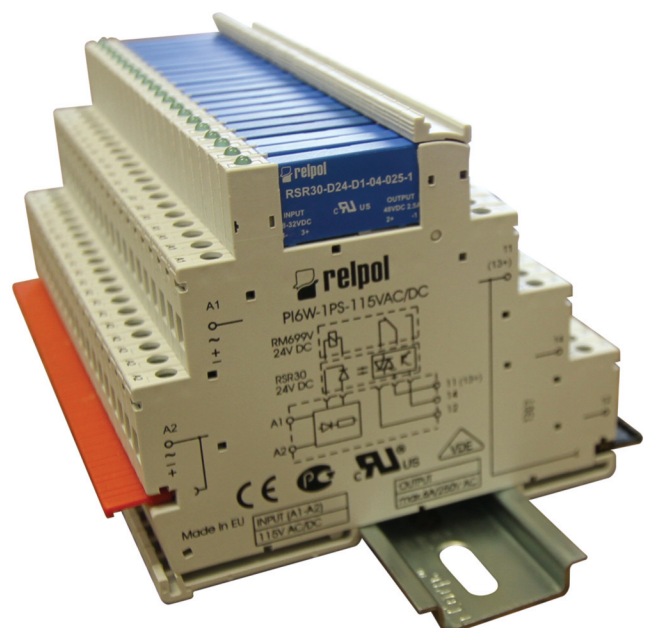
Part Number	Rated input voltage $U_n$	Power of input circuit	Socket code	*Operational relay code	Rated voltage of operational relay $U_s$
PIR6W-1PS-6VDC-R01	6 V DC	0.3 W	PI6W-1PS-6VDC	RM699BV-3011-85-1005	5 V DC
PIR6W-1PS-12VDC-R01	12 V DC	0.2 W	PI6W-1PS-12/24VDC	RM699BV-3011-85-1012	12 V DC
PIR6W-1PS-24VDC-R01	24 V DC	0.3 W	PI6W-1PS-12/24VDC	RM699BV-3011-85-1024	24 V DC
PIR6W-1PS-36VDC-R01	36 V DC	0.3 W	PI6W-1PS-36VDC	RM699BV-3011-85-1024	24 V DC
PIR6W-1PS-48VDC-R01	48 V DC	0.4 W	PI6W-1PS-48VDC	RM699BV-3011-85-1024	24 V DC
PIR6W-1PS-60VDC-R01	60 V DC	0.5 W	PI6W-1PS-60VDC	RM699BV-3011-85-1024	24 V DC
▶ <b>PIR6W-1PS-24VAC/DC-R01</b>	24 V AC/DC	0.5 VA / 0.4 W	PI6W-1PS-24VAC/DC	RM699BV-3011-85-1012	12 V DC
PIR6W-1PS-42VAC/DC-R01	42 V AC/DC	0.5 VA / 0.4 W	PI6W-1PS-42VAC/DC	RM699BV-3011-85-1024	24 V DC
PIR6W-1PS-115VAC/DC-R01	115 V AC/DC	1.2 VA / 1.2 W	PI6W-1PS-115VAC/DC	RM699BV-3011-85-1024	24 V DC
PIR6W-1PS-230VAC/DC-R01	230 V AC/DC	1.2 VA / 1.2 W	PI6W-1PS-230VAC/DC	RM699BV-3011-85-1048	48 V DC

\* It should be noted that the rated input voltage of the operational relay ( $U_s$ ) is not always the same as the rated input voltage of the relay and socket combination ( $U_n$ ) (This is important when ordering operational relays for sockets).

## Altech Custom Assemblies

**Altech provides quick turnaround and competitive prices on assemblies.**

For complete assemblies contact Altech.



▶ **BOLD** - Regular stocked items.

### Solid State Relays

#### Featuring Solid State Triac (T) relay RSR30 / 2A; 240VAC output

Part Number	Rated input voltage $U_N$	Power of input circuit	Socket code	Operational relay code	Rated voltage of operational relay $U_S$
PIR6W-1PS-6VDC-T	6 V DC	0.2 W	PI6W-1PS-6VDC	RSR30-D05-A1-24-020-1	5 V DC
PIR6W-1PS-12VDC-T	12 V DC	0.2 W	PI6W-1PS-12/24VDC	RSR30-D12-A1-24-020-1	12 V DC
PIR6W-1PS-24VDC-T	24 V DC	0.3 W	PI6W-1PS-12/24VDC	RSR30-D24-A1-24-020-1	24 V DC
PIR6W-1PS-36VDC-T	36 V DC	0.3 W	PI6W-1PS-36VDC	RSR30-D24-A1-24-020-1	24 V DC
PIR6W-1PS-48VDC-T	48 V DC	0.4 W	PI6W-1PS-48VDC	RSR30-D24-A1-24-020-1	24 V DC
PIR6W-1PS-60VDC-T	60 V DC	0.5 W	PI6W-1PS-60VDC	RSR30-D24-A1-24-020-1	24 V DC
► <b>PIR6W-1PS-24VAC/DC-T</b>	24 V AC/DC	0.5 VA / 0.4 W	PI6W-1PS-24VAC/DC	RSR30-D12-A1-24-020-1	12 V DC
PIR6W-1PS-42VAC/DC-T	42 V AC/DC	0.5 VA / 0.4 W	PI6W-1PS-42VAC/DC	RSR30-D24-A1-24-020-1	24 V DC
PIR6W-1PS-115VAC/DC-T	115 V AC/DC	1.0 VA / 1.0 W	PI6W-1PS-115VAC/DC	RSR30-D24-A1-24-020-1	24 V DC

#### Featuring Solid State Transistor (C) relay RSR30 / 1A; 48VDC output

Part Number	Rated input voltage $U_N$	Power of input circuit	Socket code	Operational relay code	Rated voltage of operational relay $U_S$
PIR6W-1PS-6VDC-C	6 V DC	0.2 W	PI6W-1PS-6VDC	RSR30-D05-D1-04-025-1	5 V DC
PIR6W-1PS-12VDC-C	12 V DC	0.2 W	PI6W-1PS-12/24VDC	RSR30-D12-D1-04-025-1	12 V DC
PIR6W-1PS-24VDC-C	24 V DC	0.3 W	PI6W-1PS-12/24VDC	RSR30-D24-D1-04-025-1	24 V DC
PIR6W-1PS-36VDC-C	36 V DC	0.3 W	PI6W-1PS-36VDC	RSR30-D24-D1-04-025-1	24 V DC
PIR6W-1PS-48VDC-C	48 V DC	0.4 W	PI6W-1PS-48VDC	RSR30-D24-D1-04-025-1	24 V DC
PIR6W-1PS-60VDC-C	60 V DC	0.5 W	PI6W-1PS-60VDC	RSR30-D24-D1-04-025-1	24 V DC
► <b>PIR6W-1PS-24VAC/DC-C</b>	24 V AC/DC	0.5 VA / 0.4 W	PI6W-1PS-24VAC/DC	RSR30-D12-D1-04-025-1	12 V DC
PIR6W-1PS-42VAC/DC-C	42 V AC/DC	0.5 VA / 0.4 W	PI6W-1PS-42VAC/DC	RSR30-D24-D1-04-025-1	24 V DC
PIR6W-1PS-115VAC/DC-C	115 V AC/DC	1.0 VA / 1.0 W	PI6W-1PS-115VAC/DC	RSR30-D24-D1-04-025-1	24 V DC
PIR6W-1PS-230VAC/DC-C	230 V AC/DC	1.0 VA / 1.0 W	PI6W-1PS-230VAC/DC	RSR30-D48-D1-04-025-1	48 V DC

#### Featuring Solid State Transistor (O) relay RSR30 / 2A; 24VDC output

Part Number	Rated input voltage $U_N$	Power of input circuit	Socket code	Operational relay code	Rated voltage of operational relay $U_S$
PIR6W-1PS-6VDC-O	6 V DC	0.2 W	PI6W-1PS-6VDC	RSR30-D05-D1-02-040-1	5 V DC
PIR6W-1PS-12VDC-O	12 V DC	0.2 W	PI6W-1PS-12/24VDC	RSR30-D12-D1-02-040-1	12 V DC
PIR6W-1PS-24VDC-O	24 V DC	0.3 W	PI6W-1PS-12/24VDC	RSR30-D24-D1-02-040-1	24 V DC
PIR6W-1PS-36VDC-O	36 V DC	0.3 W	PI6W-1PS-36VDC	RSR30-D24-D1-02-040-1	24 V DC
PIR6W-1PS-48VDC-O	48 V DC	0.4 W	PI6W-1PS-48VDC	RSR30-D24-D1-02-040-1	24 V DC
PIR6W-1PS-60VDC-O	60 V DC	0.5 W	PI6W-1PS-60VDC	RSR30-D24-D1-02-040-1	24 V DC
► <b>PIR6W-1PS-24VAC/DC-O</b>	24 V AC/DC	0.5 VA / 0.4 W	PI6W-1PS-24VAC/DC	RSR30-D12-D1-02-040-1	12 V DC
PIR6W-1PS-42VAC/DC-O	42 V AC/DC	0.5 VA / 0.4 W	PI6W-1PS-42VAC/DC	RSR30-D24-D1-02-040-1	24 V DC
PIR6W-1PS-115VAC/DC-O	115 V AC/DC	1.0 VA / 1.0 W	PI6W-1PS-115VAC/DC	RSR30-D24-D1-02-040-1	24 V DC
PIR6W-1PS-230VAC/DC-O	230 V AC/DC	1.0 VA / 1.0 W	PI6W-1PS-230VAC/DC	RSR30-D48-D1-02-040-1	48 V DC

It should be noted that the rated input voltage of the operational relay ( $U_S$ ) is not always the same as the rated input voltage of the relay and socket combination ( $U_N$ ) (This is important when ordering operational relays for sockets).

► **BOLD** - Regular stocked items.

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