

PIR6WB-1PS

Subminiature Electromagnetic and Solid State Modules



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



PIR6WB-1PS

Electromagnetic Relay (RM699BV) contact information

Number and type of contacts (code of output)		SPDT (R)	SPDT (R-01)
Contact material		AgSnO ₂	AgSnO ₂ / Au3μm
Max. switching voltage		400 V AC / 250 V DC	30 V AC / 36 V DC
Min. switching voltage AC / DC		10 V	5 V
Rated load AC1		6 A / 250 V AC	0.05 A / 30 V AC
DC1		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
Rated current		6A	0.05A
Max. / Min. breaking capacity AC1		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			
• at rated load AC1		360 cycles/hour	360 cycles/hour
• no load		72 000 cycles/hour	72 000 cycles/hour

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	6 ... 60 V
	AC: 50/60 Hz AC/DC	24 ... 230 V
Must release voltage		AC: ≥ 0.2 U _n ; DC: ≥ 0.1 U _n
Operating range of supply voltage		0.8...1.2 U _n ; 0.85...1.2 U _n 6 V DC
Must operate voltage		≤ 0.8 U _n ; ≤ 0.85 U _n 6 V DC
Rated power consumption	DC	0.2 ... 0.5 W
	AC/DC	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: contact clearance	1000 V AC 50/60 Hz. 1 min.. output R and R-01
Input - output distance: clearance / creepage	≥ 6 mm / ≥ 8 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 ⁶	6 A. 250 V AC
Mechanical life (cycles)	PIR6W-1PS-...-R/-R01:	> 10 ⁷	
Dimensions (L x W x H)		98.5 x 6.2 x 84.6 mm	
Weight		55 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
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.

PIR6WB-1PS

Subminiature Electromagnetic and Solid State Modules

Altech®

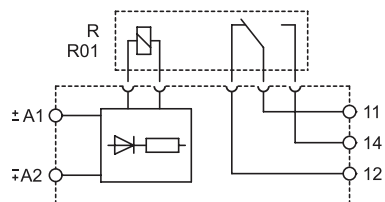


PIR6WB-1PS

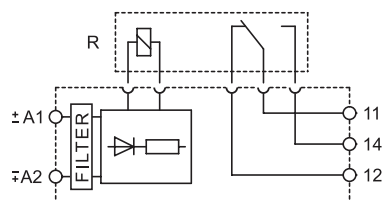


CONNECTION DIAGRAMS

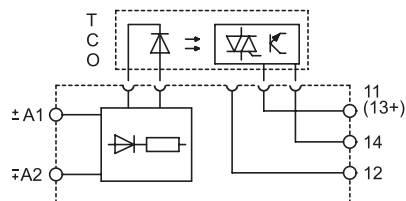
PIR6WB-1PS-...-R, PIR6WB-1PS-...-R01



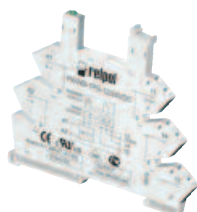
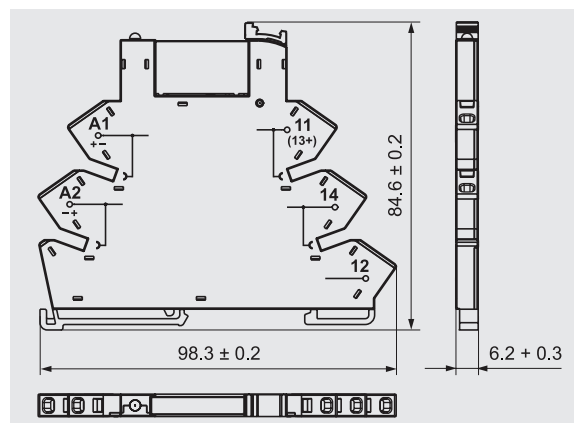
PIR6WB-1P-230VAC/DC-10



PIR6WB-1PS-...-T, PIR6WB-1PS-...-C, PIR6WB-1PS-...-O



DIMENSIONS



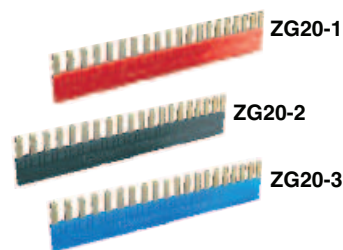
PI6WB-1PS-...



RM699BV



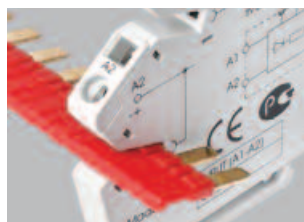
RSR30



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.

PIR6WB-1PS

Subminiature Electromagnetic and Solid State Modules

Electromagnetic Relays

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

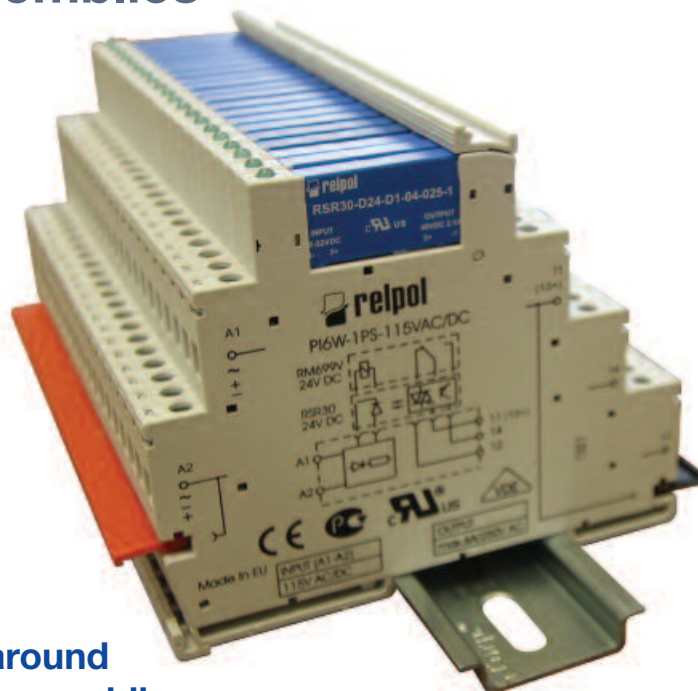
Part Number	Rated input voltage U_N	Power of input circuit	Socket code	Operational relay code	Rated voltage of operational relay U_S
PIR6WB-1PS-6VDC-R	6 V DC	0.3 W	PI6WB-1PS-6VDC	RM699BV-3011-85-1005	5 V DC
PIR6WB-1PS-12VDC-R	12 V DC	0.2 W	PI6WB-1PS-12/24VDC	RM699BV-3011-85-1012	12 V DC
► PIR6WB-1PS-24VDC-R	24 V DC	0.3 W	PI6WB-1PS-12/24VDC	RM699BV-3011-85-1024	24 V DC
PIR6WB-1PS-36VDC-R	36 V DC	0.3 W	PI6WB-1PS-36VDC	RM699BV-3011-85-1024	24 V DC
PIR6WB-1PS-48VDC-R	48 V DC	0.4 W	PI6WB-1PS-48VDC	RM699BV-3011-85-1024	24 V DC
PIR6WB-1PS-60VDC-R	60 V DC	0.5 W	PI6WB-1PS-60VDC	RM699BV-3011-85-1024	24 V DC
► PIR6WB-1PS-24VAC/DC-R	24 V AC/DC	0.5 VA / 0.4 W	PI6WB-1PS-24VAC/DC	RM699BV-3011-85-1012	12 V DC
PIR6WB-1PS-42VAC/DC-R	42 V AC/DC	0.5 VA / 0.4 W	PI6WB-1PS-42VAC/DC	RM699BV-3011-85-1024	24 V DC
► PIR6WB-1PS-115VAC/DC-R	115 V AC/DC	1.2 VA / 1.2 W	PI6WB-1PS-115VAC/DC	RM699BV-3011-85-1024	24 V DC
PIR6WB-1PS-230VAC/DC-R	230 V AC/DC	1.2 VA / 1.2 W	PI6WB-1PS-230VAC/DC	RM699BV-3011-85-1048	48 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
PIR6WB-1PS-6VDC-R01	6 V DC	0.3 W	PI6WB-1PS-6VDC	RM699BV-3011-85-1005	5 V DC
PIR6WB-1PS-12VDC-R01	12 V DC	0.2 W	PI6WB-1PS-12/24VDC	RM699BV-3011-85-1012	12 V DC
PIR6WB-1PS-24VDC-R01	24 V DC	0.3 W	PI6WB-1PS-12/24VDC	RM699BV-3011-85-1024	24 V DC
PIR6WB-1PS-36VDC-R01	36 V DC	0.3 W	PI6WB-1PS-36VDC	RM699BV-3011-85-1024	24 V DC
PIR6WB-1PS-48VDC-R01	48 V DC	0.4 W	PI6WB-1PS-48VDC	RM699BV-3011-85-1024	24 V DC
PIR6WB-1PS-60VDC-R01	60 V DC	0.5 W	PI6WB-1PS-60VDC	RM699BV-3011-85-1024	24 V DC
► PIR6WB-1PS-24VAC/DC-R01	24 V AC/DC	0.5 VA / 0.4 W	PI6WB-1PS-24VAC/DC	RM699BV-3011-85-1012	12 V DC
PIR6WB-1PS-42VAC/DC-R01	42 V AC/DC	0.5 VA / 0.4 W	PI6WB-1PS-42VAC/DC	RM699BV-3011-85-1024	24 V DC
PIR6WB-1PS-115VAC/DC-R01	115 V AC/DC	1.2 VA / 1.2 W	PI6WB-1PS-115VAC/DC	RM699BV-3011-85-1024	24 V DC
PIR6WB-1PS-230VAC/DC-R01	230 V AC/DC	1.2 VA / 1.2 W	PI6WB-1PS-230VAC/DC	RM699BV-3011-85-1048	48 V DC

The rated input voltage of the operational relay U_S not always complies with the rated input voltage U_N (which is important on ordering operational relays for sockets). For versions of the input voltage $U_N = 230$ V AC/DC keep the distance between the mounting relays min. 5 mm under maximum load and at continuous operation.

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
PIR6WB-1PS-6VDC-T	6 V DC	0.2 W	PI6WB-1PS-6VDC	RSR30-D05-A1-24-020-1	5 V DC
PIR6WB-1PS-12VDC-T	12 V DC	0.2 W	PI6WB-1PS-12/24VDC	RSR30-D12-A1-24-020-1	12 V DC
PIR6WB-1PS-24VDC-T	24 V DC	0.3 W	PI6WB-1PS-12/24VDC	RSR30-D24-A1-24-020-1	24 V DC
PIR6WB-1PS-36VDC-T	36 V DC	0.3 W	PI6WB-1PS-36VDC	RSR30-D24-A1-24-020-1	24 V DC
PIR6WB-1PS-48VDC-T	48 V DC	0.4 W	PI6WB-1PS-48VDC	RSR30-D24-A1-24-020-1	24 V DC
PIR6WB-1PS-60VDC-T	60 V DC	0.5 W	PI6WB-1PS-60VDC	RSR30-D24-A1-24-020-1	24 V DC
► PIR6WB-1PS-24VAC/DC-T	24 V AC/DC	0.5 VA / 0.4 W	PI6WB-1PS-24VAC/DC	RSR30-D12-A1-24-020-1	12 V DC
PIR6WB-1PS-42VAC/DC-T	42 V AC/DC	0.5 VA / 0.4 W	PI6WB-1PS-42VAC/DC	RSR30-D24-A1-24-020-1	24 V DC
PIR6WB-1PS-115VAC/DC-T	115 V AC/DC	1.0 VA / 1.0 W	PI6WB-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
PIR6WB-1PS-6VDC-C	6 V DC	0.2 W	PI6WB-1PS-6VDC	RSR30-D05-D1-04-025-1	5 V DC
PIR6WB-1PS-12VDC-C	12 V DC	0.2 W	PI6WB-1PS-12/24VDC	RSR30-D12-D1-04-025-1	12 V DC
PIR6WB-1PS-24VDC-C	24 V DC	0.3 W	PI6WB-1PS-12/24VDC	RSR30-D24-D1-04-025-1	24 V DC
PIR6WB-1PS-36VDC-C	36 V DC	0.3 W	PI6WB-1PS-36VDC	RSR30-D24-D1-04-025-1	24 V DC
PIR6WB-1PS-48VDC-C	48 V DC	0.4 W	PI6WB-1PS-48VDC	RSR30-D24-D1-04-025-1	24 V DC
PIR6WB-1PS-60VDC-C	60 V DC	0.5 W	PI6WB-1PS-60VDC	RSR30-D24-D1-04-025-1	24 V DC
► PIR6WB-1PS-24VAC/DC-C	24 V AC/DC	0.5 VA / 0.4 W	PI6WB-1PS-24VAC/DC	RSR30-D12-D1-04-025-1	12 V DC
PIR6WB-1PS-42VAC/DC-C	42 V AC/DC	0.5 VA / 0.4 W	PI6WB-1PS-42VAC/DC	RSR30-D24-D1-04-025-1	24 V DC
PIR6WB-1PS-115VAC/DC-C	115 V AC/DC	1.0 VA / 1.0 W	PI6WB-1PS-115VAC/DC	RSR30-D24-D1-04-025-1	24 V DC
PIR6WB-1PS-230VAC/DC-C	230 V AC/DC	1.0 VA / 1.0 W	PI6WB-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
PIR6WB-1PS-6VDC-O	6 V DC	0.2 W	PI6WB-1PS-6VDC	RSR30-D05-D1-02-040-1	5 V DC
PIR6WB-1PS-12VDC-O	12 V DC	0.2 W	PI6WB-1PS-12/24VDC	RSR30-D12-D1-02-040-1	12 V DC
PIR6WB-1PS-24VDC-O	24 V DC	0.3 W	PI6WB-1PS-12/24VDC	RSR30-D24-D1-02-040-1	24 V DC
PIR6WB-1PS-36VDC-O	36 V DC	0.3 W	PI6WB-1PS-36VDC	RSR30-D24-D1-02-040-1	24 V DC
PIR6WB-1PS-48VDC-O	48 V DC	0.4 W	PI6WB-1PS-48VDC	RSR30-D24-D1-02-040-1	24 V DC
PIR6WB-1PS-60VDC-O	60 V DC	0.5 W	PI6WB-1PS-60VDC	RSR30-D24-D1-02-040-1	24 V DC
► PIR6WB-1PS-24VAC/DC-O	24 V AC/DC	0.5 VA / 0.4 W	PI6WB-1PS-24VAC/DC	RSR30-D12-D1-02-040-1	12 V DC
PIR6WB-1PS-42VAC/DC-O	42 V AC/DC	0.5 VA / 0.4 W	PI6WB-1PS-42VAC/DC	RSR30-D24-D1-02-040-1	24 V DC
PIR6WB-1PS-115VAC/DC-O	115 V AC/DC	1.0 VA / 1.0 W	PI6WB-1PS-115VAC/DC	RSR30-D24-D1-02-040-1	24 V DC
PIR6WB-1PS-230VAC/DC-O	230 V AC/DC	1.0 VA / 1.0 W	PI6WB-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). For versions of the input voltage $U_N = 230$ V AC/DC keep the distance between the mounting relays min. 5 mm under maximum load and at continuous operation.

► **BOLD** - Regular stocked items.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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