



Relay Selection Guide

Call (800) 262.IDEC

www.IDEC.com/relay



RH Series - Compact Power Relays



- Small industrial 10A GP relay
- SPDT, DPDT, 3PDT, 4PDT contacts
- Options: indicator LED, check-button and surge suppression diode
- DIN rail, through panel, and PCB type sockets available
- SPDT and DPDT 500K cycle UL tested for maximum life expectancy



RH 1 B - U L AC24V

Contact Configuration
 1=SPDT
 2=DPDT
 3=3PDT
 4=4PDT

Terminal Type
 B=Blade (.187")
 V2=PCB

Options
 L=Indicator light
 C=Check button
 T=Top mounting*
 D=Diode (DC only)

Coil Voltage
 AC6V DC6V
 AC12V DC12V
 AC24V DC24V
 AC120V DC48V
 AC240V DC110V

*Diode, Indicator light, and check button not available with top mount option
 1. For RH2B use AC110-120V
 2. For RH2B use AC220-240V
 3. For RH2B use DC100-110V

		RH1	RH2	RH3	RH4
Specifications	Contact Material	Silver cadmium oxide (AgCdO)			
	Contact Rating	10A			
	Minimum Load (reference values)	30mA@24VDC, 100mA@5VDC			
	Dimensions (w x d x h) mm	14x27.5x42	21x27.5x42	31x27.5x42	41x27.5x42

Relays		Standard DIN Rail Mount	Finger-safe DIN Rail Mount	Through Panel Mount	PCB Mount
Sockets for Blade Terminal Models	RH1B	SH1B-05	SH1B-05C	SH1B-51	SH1B-62
	RH2B	SH2B-05	SH2B-05C	SH2B-51	SH2B-62
	RH3B	SH3B-05	SH3B-05C	SH3B-51	SH3B-62
	RH4B	SH4B-05	SH4B-05C	SH4B-51	SH4B-62

Relays / Sockets		Description	For DIN Mount Socket	For Through Panel & PCB Mount Socket	
Accessories	Hold Down Springs & Clips	Pullover Wire Spring	RH1B	SY2S-02F1	SY4S-51F1
			RH2B	SY4S-02F1	
			RH3B	SH3B-05F1	
			RH4B	SH4B-02F1	
	DIN Rail	all DIN mount sockets	Leaf Spring (side latch)	SFA-202	SFA-302
			Leaf Spring (top latch)	SFA-101	SFA-301
		Aluminum DIN Rail (1 meter length)	BNDN1000	—	
		DIN Rail End Stop	BNL5	—	

RJ Series - Slim Power Relays



- Compact size for maximum space savings on DIN rail
- SPDT 12A and DPDT 8A contacts (high capacity 16A SPSN-NO available)
- Optional non-polarized, green LED
- Locking and release lever on SJ sockets
- RoHS Compliant



RJ 1 S - CL - A24

Contact Configuration
1=SPDT
2=DPDT

Terminal
S-Blade
V-PCB

Options
C=Standard
CL=LED
CD=Surge Suppression Diode
CLD=LED & Surge Suppression Diode
CH=High Capacity
A=SPST-NO Standard
AH=SPST-NO High Capacity

Voltage Code
A12=12V AC
A24=24V AC
A110=110V AC
A120=120V AC
A220=220V AC
A240=240V AC

D5=5V DC
D6=6V DC
D12=12V DC
D24=24V DC
D48=48V DC
D100=100-110V DCV DC

		RJ1S	RJ2S
Specifications	Contact Material	Silver-Nickel Alloy	
	Contact Rating	12A	8A
	Minimum Load (reference values)	100mA@5VDC, 10mA@5VDC (PCB version)	
	Dimensions (w x d x h) mm	12.7x28.8x33	

		Relays	Standard DIN Rail Mount	Finger-safe DIN Rail Mount	PCB Mount
Sockets	Blade Models	RJ1S (Std)	SJ1S-05B	SJ1S-07L	SJ1S-61
		RJ2S (Std)	SJ2S-05B	SJ2S-07L	SJ2S-61
	PCB Models	RJ1V (Std)	—	SQ1V-07B	SQ1V-63
		RJ1V (HC), RJ2V	—	SQ2V-07B	SQ2V-63

		Use With Socket	Description	Part Number
Accessories	Hold Down Springs	SJ1S-05B, SJ1S-07L SJ2S-05B, SJ2S-07L	Pullover Locking Lever	SJ9Z-C1
		SQ1V-07B, SQ2V-07B		SQ9Z-C
		SQ1V-63, SQ2V-63		SQ9Z-C63
	DIN Rail	SJ1S-05B, SJ2S-05B	Aluminum DIN Rail (1 meter length)	BNDN1000
			DIN Rail End Stop	BNL5
	Jumpers	all DIN mount sockets	2 Poles	SJ9Z-JF2
			5 Poles	SJ9Z-JF5
8 Poles			SJ9Z-JF8	
10 Poles			SJ9Z-JF10	

RQ Series - PCB Relays



- Compact, printed circuit board relay
- SPDT 12A, DPDT 8A contacts
- High capacity SPDT 16A available
- Dust and solder flux protected
- DIN rail socket available



RQ 1 V - C M - A24

Contact Configuration
1=SPDT
2=DPDT

Pin Spacing
M=3.5mm, SPDT 12A
H=5mm, SPDT 16A
N=5mm, DPDT 8A

Coil Voltage
A24=AC24V
A115=AC120V
A230=AC240V
D12=DC12V
D24=DC24V

		RQ1V-CM	RQ1V-CH	RQ2V-CN
Specifications	Contact Material	Ag Alloy		
	Contact Rating	12A	16A	8A
	Minimum Load (reference values)	10mA@5VDC		
	Dimensions (w x d x h) mm	12.6x29x15.6		

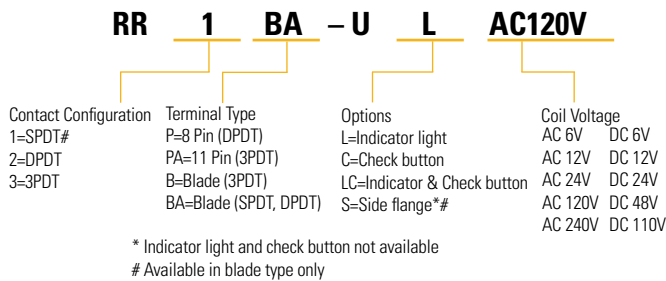
		Relays	Finger-safe DIN Rail Mount	PCB Mount
Sockets	RQ1		SQ1V-07B	SQ1V-63
	RQ2		SQ2V-07B	SQ2V-63
	RQ1 HC			

		Description	Part Number
Replacement Parts & Accessories		Replacement retaining clip	SQ9Z-C
		Replacement hold-down spring for SQ PCB sockets	SQ9Z-C63
		8 pt jumper for DIN socket	SQ9Z-J8
		Diode plug in modules for DIN socket	SQ9Z-LD
		RC plug-in module (110-230V AC) for DIN socket	SQ9Z-LR
		Replacement marking plate	SQ9Z-P
		Aluminum DIN Rail (1 meter length) for all DIN rail sockets	BNDN1000
		DIN Rail End Stop	BNL5

RR Series - Power Relays



- Rugged industrial 10A relay
- SPDT, DPDT, 3PDT 10A contacts
- Options: Indicator LED, check-button and side flange mounting
- Round 8- and 11-pin base and square blade base relays
- Horsepower rated for small motors and solenoids



	RR2P	RR3PA	RR1BA	RR2BA	RR3B	
Specifications	Contact Material	Silver (Ag)				
	Contact Rating	10A				
	Minimum Load (reference values)	10mA@24VDC, 20mA@5VDC				
	Dimensions (w x d x h) mm	29.3x36.4x56	36.4x36.4x56	36.4x36.4x55.4		

	Relays	Standard DIN Rail Mount	Finger-safe DIN Rail Mount	Through Panel Mount
Sockets	RR2P	SR2P-05, SR2P-06	SR2P-05C	SR2P-51
	RR3PA	SR3P-05, SR3P-06	SR3P-05C	SR3P-51
	RR1BA RR2BA RR3B	SR3B-05	—	SR3B-51

		Relays / Sockets	Description	For DIN Mount Socket	For Through Panel & PCB Mount Socket
Accessories	Hold Down Springs & Clips	RR2P	Pullover Wire Spring	SR2B-02F1	SR3P-01F1
		RR3PA		SR3B-02F1	
		RR1BA, RR2BA, RR3B		SR3B-02F1	SR3B-02F1
	DIN Rail	RR2P, RR3PA	Leaf Spring (side latch)	SFA-203	—
		all DIN mount sockets	Aluminum DIN Rail (1 meter length)	BNDN1000	—
	DIN Rail End Stop		BNL5	—	

RU Series - Universal Relays



- 100% robotic assembly
- DPDT 10A, 4PDT 6A and bifurcated 4PDT 3A contacts
- Spot welding technology eliminates internal wires and solder
- Non-polarized, green LED
- Color-coded, snap-on marking plates
- RoHS compliant



RU 2 S - MD D24

Contact Configuration
2=DPDT
4=4PDT
42=4PDT Bifurcated

Terminals
S=Blades
V=PCB

Options
(Blank)=Standard (Latching lever & indicator light)
C=No latching lever
R=RC (AC coils only)
NF=No indicator light, no lever
D=Standard + diode (DC coils only)
M=Momentary latching lever

Coil Voltage
A24=24VAC
A120=120VAC
A240=240VAC
D6=6VDC
D12=12VDC
D24=24VDC
D48=48VDC
D110=110VDC

		RU2	RU4	RU42
Specifications	Contact Material	AgSnOIn	AuAg/Ag	AuAg/AgNi
	Contact Rating	10A	6A	3A (bifurcated)
	Minimum Load (reference values)	5mA@24VDC		
	Dimensions (w x d x h) mm	21x27.5x41.4		

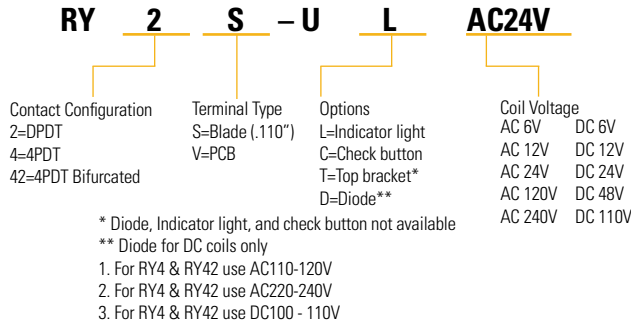
		Relays	Spring Clamp DIN Rail Mount	Standard DIN Rail Mount	Finger-safe DIN Rail Mount	Panel Mount	PCB Mount
Sockets	RU2S (DPDT)	SU2S-11L	SM2S-05	SM2S-05C	SY4S-51	SM2S-61	SM2S-62
	RU4S (4PDT) RU42S (4PDT)	SU4S-11L	SY4S-05	SY4S-05C		SY4S-61	SY4S-62

		Relays / Sockets	Description	For DIN Mount Socket	For Through Panel & PCB Mount Socket
Accessories	Hold Down Springs & Clips	RU2S/RU4S/RU42S	Pullover Wire Spring	SY4S-02F1	SY4S-51F1
		RU2S/RU4S/RU42S	Leaf Spring (side latch)	SFA-202	SFA-302
		RU2S/RU4S/RU42S	Leaf Spring (top latch)	SFA-101	SFA-301
	DIN Rail	all DIN mount sockets	Aluminum DIN Rail (1 meter length)	BNDN1000	-
			DIN Rail End Stop	BNL5	-

RY Series - Miniature Relays



- Small industrial GP signaling relay
- DPDT 3A, 4PDT 5A contacts
- Bifurcated 4PDT 1A contacts available
- Options: Indicator LED, check-button and surge suppression diode
- Plug-in/solder and PCB terminals



		RY2	RY4	RY42
Specifications	Contact Material	Silver (Ag), gold-plated		Ag-Pd alloy
	Contact Rating	3A	5A	1A (bifurcated)
	Minimum Load (reference values)	10mA@5VDC, 5mA@24VDC		100uA@1VDC
	Dimensions (w x d x h) mm	14.2x27.5x41.5	21.2x27.5x41.5	21.2x27.5x41.5

Relays		Standard DIN Rail Mount	Finger-safe DIN Rail Mount	Through Panel Mount	PCB Mount
Sockets	RY2S	SY2S-05	SY2S-05C	SY2S-51	SY2S-61
	RY4S	SY4S-05	SY4S-05C	SY4S-51	SY4S-61
	RY42S				SY4S-62

Relays / Sockets		Description	For DIN Mount Socket	For Through Panel & PCB Mount Socket	
Accessories	Hold Down Springs & Clips	Pullover Wire Spring	RY2S	SY4S-02F1	
			RY4S/Ry42S	SY4S-51F1	
		Leaf Spring (side latch)*	RY2S/Ry4S/Ry42S	SFA-202	SFA-302
		Leaf Spring (top latch)*	RY2S/Ry4S/Ry42S	SFA-101	SFA-301
DIN Rail	all DIN mount sockets	Aluminum DIN Rail (1 meter length)	BNDN1000	-	
		DIN Rail End Stop	BNL5	-	

*not applicable for pcb mount sockets

Relay & Socket Cross Reference Guide

Allen-Bradley		IDEC
Relays	700-HA32	RR2P
	700-HA33	RR3PA
	700-HAB2	RR2P
	700-HAB3	RR3PA
	700-HAX2	RR2P
	700-HAX3	RR3PA
	700-HB32	RR2BA
	700-HB33	RR3B
	700-HC14	RU4S
	700-HC24	RU4S
	700-HC54	RU42S
	700-HD32	RR2BA-US
	700-HD33	RR3B-US
	700-HF32	RH2B
	700-HF33	RH3B
	700-HF34	RH4B
Sockets	700-HK36	RJ1S-C
	700-HK36_-4L	RJ1S-CL
	700-HK32_	RJ2S-C
	700-HK32_-4L	RJ2S-CL
	700-HPX2	RQ2V-CN
	700-HN125	SR2P-06
	700-HN126	SR3P-06
	700-HN154	SR3B-05
	700-HN128	SY4S-05
	700-HN116	SH2B-05
700-HN138	SH3B-05	
700-HN139	SH4B-05	
700-HN121	SJ1S-05B	
700-HN122	SJ2S-05B	
700-HN123	SQ2V-07B	
Aromat/Matsushita/Panasonic		IDEC
Relays	AHN1	RJ1S-CL
	AHN2	RJ2S-CL
Sockets	AHNA11	SJ1S-05B
	AHNA21	SJ2S-05B

Cutler-Hammer		IDEC
Relays	D2PR2	RU2S
	D2PR4	RU4S
	D3PR2	RR2P
	D3PR3	RR3PA
	D3PR5	RR2KP
	D5PR2	RR2P
	D5PR3	RR2P
	D7PR2	RH2B
Sockets	D7PR3	RH3B
	D7PR4	RH4B
	D2PA4	SY4S-05
	D2PA6	SY4S-05
	D5PA2	SR3B-05
	D3PA2	SR2P-05
	D3PA3-A2	SR3P-06
	D3PA4	SR2P-51
	D3PA2	SR2P-05
	D7PA2	SH2B-05
Cyberdyn	D7PA5	SH2B-51
	D7PA3	SH3B-05
	D7PA4	SH4B-05
	Cyberdyn	
Relay	HJQ-22F	RU4S/RY4S
Socket	PYF14A-A	SY4S-05
Finder		IDEC
Relays	46.61_0	RJ1S-C
	41.31./40.31.	RQ1V-CM
	41.52./40.52.	RQ2V-CN
	41.61./40.61.	RQ1V-CH
Sockets	95.03/95.83.3	SQ1V-07B
	95.05/95.85.3	SQ2V-07B

Magnecraft (Struthers Dunn)		IDEC
Relays	750XBX	RR2P
	750XCX	RR3PA
	78(1)XAX	RH1B
	782XBX	RH2B
	782XBX1	RU2S
	782XBX2	RU2S
	782XDX1	RU4S
	782XDX2	RU4S
	782XDX3	RU42S
	783XCX	RH3B
	784XDX	RH4B
	788XBX	RR2BA
	788XCX	RR3B
	78XCX	RH3B
	78XDX	RH4B
	A283XAX	RR1BA
	A283XBX	RR2BA
	A283XCX	RR3B
	A314XBX	RR2P
	A314XCX	RR3PA
	W250ACPX	RR2P
	W250CPX	RR3PA
	W388	RR*B
	W78(A)CSX	RU4S
	W78(A)R	RH2B
	W78(A)T	RU42S
	Sockets	70-464-1
70-465-1		SR3P-06
70-459-1		SH2B-05
70-461-1		SY4S-05
70-783D-1		SH3B-05C
70-463-1		SR3B-05
70-124-1		SR3B-51
70-378-1		SY4S-51
70-401-1		SH2B-51
70-402-1		SH2B-62
70-379-1		SY4S-61
70-781D-1		SH1B-05

Sockets	70-781F-1	SH1B-51
	70-781T-1	SH1B-62
	70-784D-1	SH4B-05C
	70-78D-1	SH4B-05
Omron		IDEC
Relays	G2R-1-S	RJ1S-C
	G2R-1-SN	RJ1S-CL
	G2R-2-S	RJ2S-C
	G2R-2-SN	RJ2S-CL
	G2RL-1	RQ1V-CM
	G2RL-2	RQ2V-CN
	G2R-1	RQ1V-CM
	G2R-2	RQ2V-CN
	G2RL-1-E	RQ1V-CH
	G2R-1-E	RQ1V-CH
	LY2	RH2
	LY3	RH3
	LY4	RH4
	MK2P	RR2P
	MK3P	RR3PA
	MJN1	RR1BA
	MJN2	RR2BA
	MJN3	RR3B
	MRL	RR2KP
	MY2	RU2
MY4	RU4/R4	
Sockets	P2RF-05	SJ1S-05B
	P2RF-05-E	SJ1S-07L
	P2RF-08	SJ2S-05B
	P2RF-08-E	SJ2S-07L
	PTF08A-E	SH2B-05
	PTF11A	SH3B-05
	PTF14A-E	SH4B-05
	PF083A-E	SR2P-06
	PF113A-E	SR3P-05
	PTF11PC	SR3B-05
	PYF08A-E	SM2S-05
	PYF14A-E	SY4S-05

Potter & Brumfield (Tyco)		IDEC
Relays	K10	RH2B
	KHAE-11	RM2V
	KHAE-17	RY4V
	KHAU-11	RU2S
	KHAU-17	RU4S
	KRP(A)-11	RR2P
	KRP(A)-14	RR3PA
	KUP-11	RR2BA
	KUP-14	RR3B
	KUP-5	RR1BA
	KUP93-11	RR3B
	RT114_F	RQ1V-CM
	RT424_F	RQ2V-CN
	RT314_F	RQ1V-CH
Sockets	8-1415035-1	SQ1V-07B
	6-1415035-1	SQ2V-07B
	27E895	SH2B-05
	27E489	SH2B-62
	27E024	SY4S-62
	27E891	SR2P-06
	27E892	SR2P-05
	27E123	SR3P-06
	27E893	SR3B-05
27E168	SR3B-51	
Releco (Turck)		IDEC
Relays	C2-A20	RR2P
	C3-A20	RR3PA
	C4-A40	RU4S
	C5-A20	RR2BA
	C5-A30	RR3B
	C7-A20	RH2B
	C9-A41	RU42S
	C10-A10	RJ1S-CL

Sockets	S2-B	SR2P-06
	S2-S	SR2P-05C
	S2-L	SR2P-51
	S3-B	SR3P-06
	S3-S	SR3P-05C
	S3-L	SR3P-51
	S4-B	SY4S-05C
	S5-S	SR3B-05
	S5-L	SR3B-51
	S7-M	SH2B-05C
	S7-16	SH2B-05C
	S7-L	SH2B-51
	S7-P	SH2B-62
	S9-M	SY4S-05C
S9-L	SY4S-51	
S9-P	SY4S-62	
S-10	SJ1S-07L	
Schrack (Tyco)		IDEC
Relays	MT2	RR2P
	MT3	RR3PA
	PT2	RU2S
	PT4	RU4S
	RM2	RR2BA
	RM3	RR3B
	RT114	RQ1V-CM
	RT424	RQ2V-CN
RT314	RQ1V-CH	
Sockets	8-1415035-1	SQ1V-07B
	6-1415035-1	SQ2V-07B
	MT78755	SR2P-06
	MT78750	SR3P-06
	PT78702	SM2S-05
	PT78704	SY4S-05
	27E023/27E220	SY4S-61

Square D	IEEC	
Relays	8501KF12	RR2BA-US
	8501KF13	RR3B-US
	8501KP12	RR2P
	8501KP13	RR3PA
	8501KU12	RR2BA
	8501KU13	RR3B
	8501RS(D)14	RU4S/R4S
	8501RS(D)24	RU42S/R42S
	8501RS(D)4	RU4S/R4S
	8501RS(D)41	RH1B
	8501RS(D)42	RH2B
	8501RS(D)43	RH3B
	8501RS(D)44	RH4B
	Sockets	8501NR82
8501NR52		SR2P-05
8501NR52F		SR2P-05C
8501NR62		SR3P-05
8501NR62F		SR3P-05C
8501NR61		SR3P-06
8501NR45		SY4S-05
8501NR45F		SY4S-05C
8501NR41		SH1B-05
8501NR42		SH2B-05
8501NR42F		SH2B-05C
8501NR43		SH3B-05
8501NR34		SH4B-05

Note: The cross references listed are the closest match physically and functionally. If you are looking to match a specific application requirement, please refer to our Industrial Automation Catalog. For an evaluation unit or technical support, contact IDEC or call your local sales representative.

800-262-IEEC
support@IEEC.com • crossref@IEEC.com

IDEC has the solution you need!



More Information

www.IDEC.com/relay

Technical Support

support@IDEC.com

crossref@IDEC.com

800-262-IDEDEC

Automation & Sensing

- PLCs
- Operator Interfaces
- Automation Software
- Power Supplies
- Sensors
- Communications & Networking

Safety

- Emergency Stops
- Door Interlock Switches
- Enabling Switches
- Safety Controller
- Light Curtains
- Relay Barriers
- AS-i Safety at Work

Switching & Controls

- Switches & Pilot Devices
- Display Lights
- Relays & Sockets
- LED Machine Lighting
- Timers
- Terminal Blocks
- Circuit Breakers
- IEC Contactors



www.IDEC.com