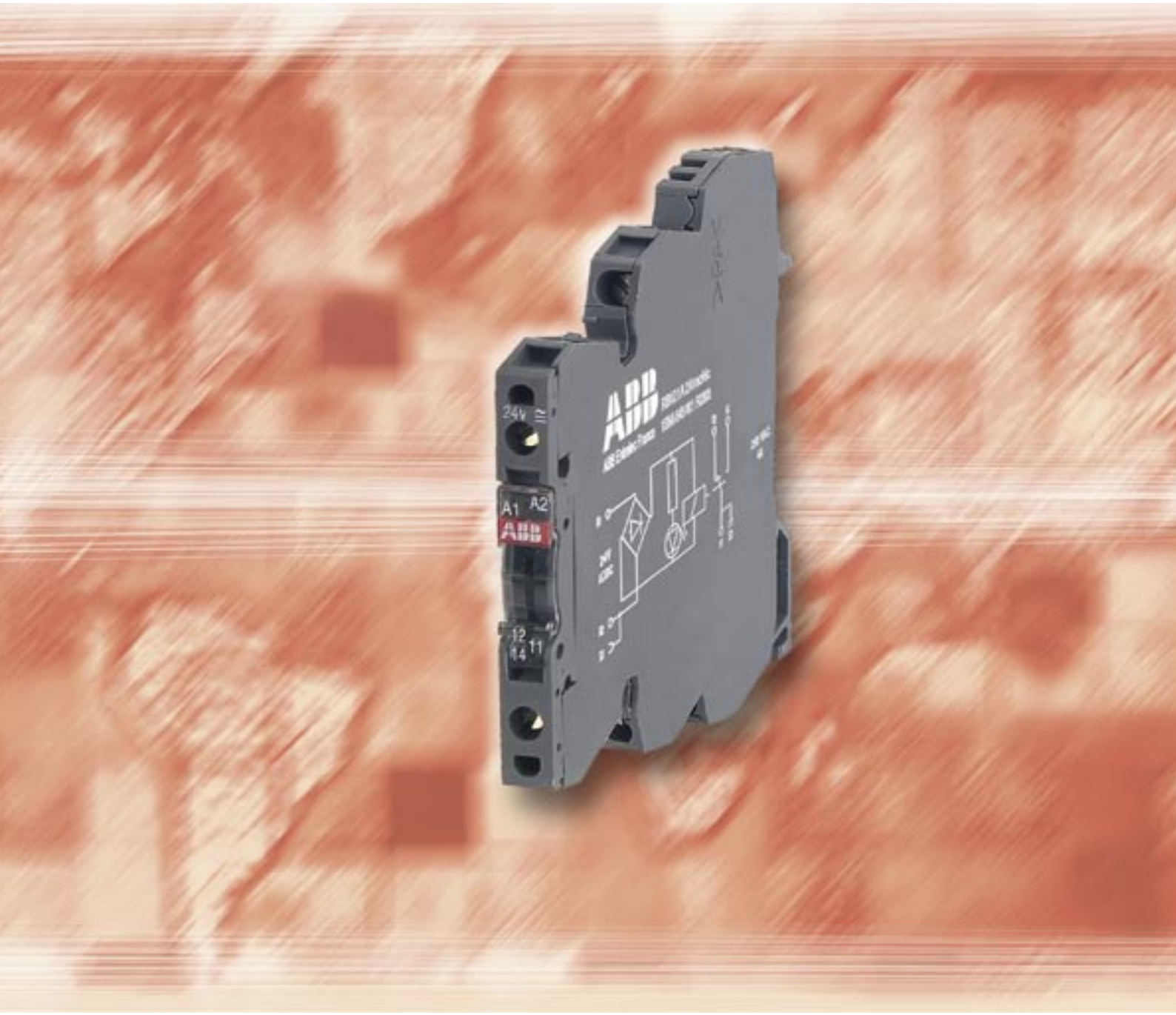
Short Form Catalogue

Relays Optocouplers
R600 Series



ABB

Relays and optocouplers
R600 series



NEW
R600

Summary

R600 interfaces

Description 3

Relay interfaces

Selection guide 6

R600 relay modules 7

Optocouplers interfaces

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Applications

R600

NEW RANGE

In present automatic processes, the control device includes a computer or a PLC linked to the process with a lot of wires connecting to sensors or actuators.

These performing processors in their own activity are environmental interferences and overvoltages much sensitive.

Moreover, their action field is often limited in voltage and current of 24 V DC / 100 mA.

In order to fit voltage/current together with galvanic insulation, interface is necessary through devices providing these functions plus transmission of input/output logic signals.

The R600 range of relays and optocouplers makes it possible. These devices provide many voltage and current adjustments (5 to 400 V / 1 mA to 12 A) and input/output insulation from 2 to 4 kV.

The ABB solution

ABB uses Entrelec's know-how for providing a full range of automatic process products.

The new R600 range of relays and optocouplers is the solution for all your applications. It provides a wide panel of relay and optocoupler products with many functions.

CE

Relay range

- Input voltage : from 5 to 250 V AC/DC
- Voltage switching range : from 5 to 250 V AC/DC
- Current switching range : from 1 mA to 12 A
- Leakage current and overvoltage protection
- Relay coil forcing switch

Optocoupler range

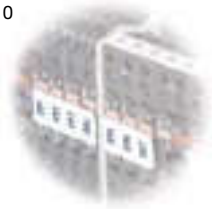
- Input voltage : from 5 to 250 V AC/DC
- Voltage switching range : from 5 to 58 V DC, from 20 to 400 V AC
- Current switching range : from 1 mA to 5 A
- Overvoltage protection



Easy marking

Box function with markers type RC610
Wire connection with markers type RC65
Electrical schematic of the block on the side of the block

Type RC610





Type RC65

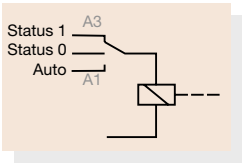
Manual or automatic functionning

Micro-Switch allowing forcing of the coil input to 0 or 1 for interventions in equipments.

Two possibilities:

With a visible switch located on front side. (Fig. 1)

With a secure switch (Fig. 2) after acces hatch opening (Fig. 3)



(Fig. 1)

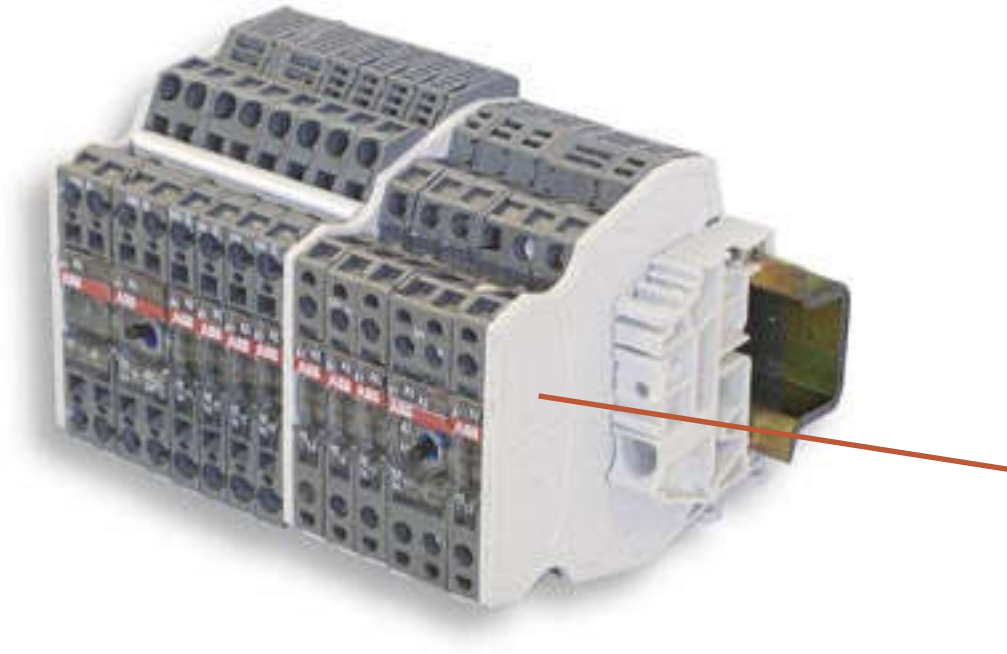


(Fig. 3)



(Fig. 2)





Functionning Status

Functionning display through a green Led.



Jumper bar

Same jumper bar for «Screw clamp» or «Spring clamp» technologies. Independent of wire clamp and snap on held in place. Use of end sections is required to preserve IP20 protection.



Distribution block

«Screw clamp» or «Spring clamp» technologies. With protection connected to the rail.

For polarity distribution on demand : coils and/or contacts.



Mesurements - Tests

Holes for holding DIA. 2 mm test plugs of the measurement apparatus in position.



Easy wiring

DIA. 3,5 mm screwdriver self-gripped into spring



SYNERGY

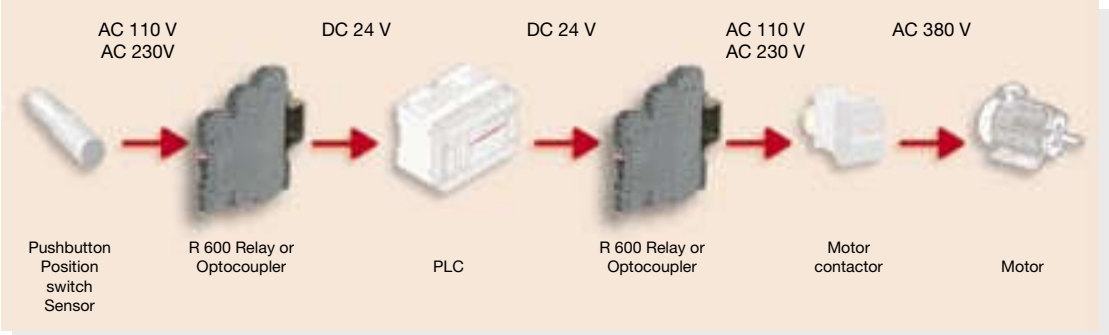
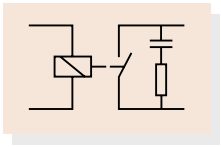


ABB PROVIDES A FULL SOLUTION FROM SENSOR TO MOTOR

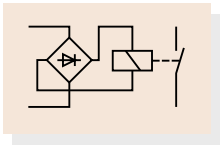
SAVING

CONTACT LIFE INCREASED



Contact protection
through RC circuit

ONLY ONE PART NUMBER AC/



DIMENSIONS

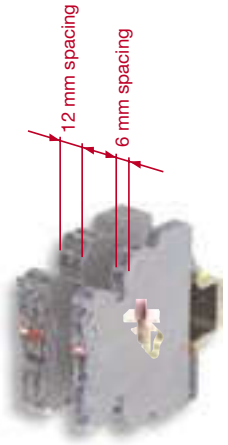
Compact block in «spring clamp» or «screw clamp» versions with 6 mm and 12 mm spacings.

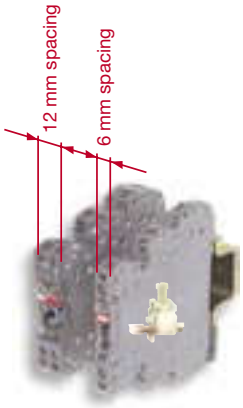


0,2 to 2,5 mm²



0,22 to 4 mm²





SAFETY

SEPARATION AND IDENTIFICATION OF SEVERAL VOLTAGES

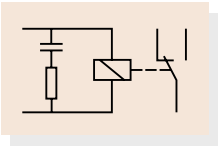
Separator end sections.

IP20 PROTECTION

NO DISTURBANCE PRODUCTION

Choice of high quality electronic components to reduce leakage currents (< 50 µA).

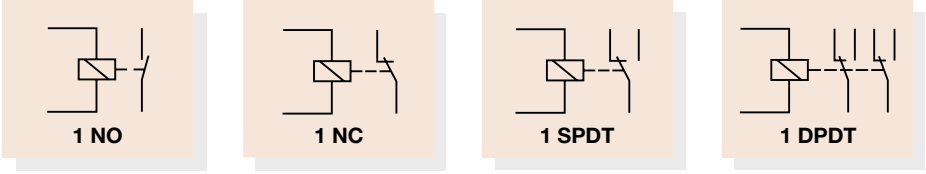
IMMUNITY

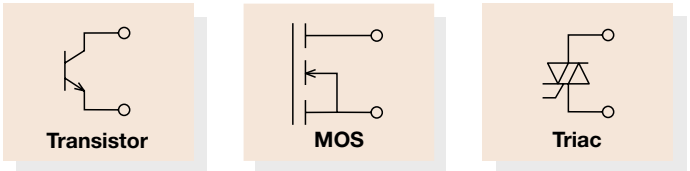


Leakage current
protection

ACCORDANCE TO STANDARDS :

PERFORMANCES





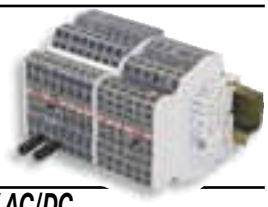
ADAPTABILITY TO ANY APPLICATION TYPE

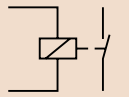
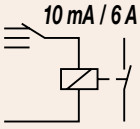
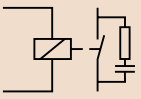
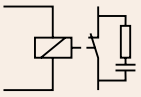
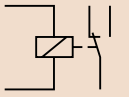
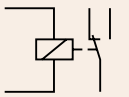
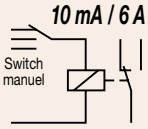
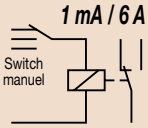
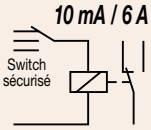
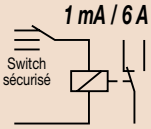
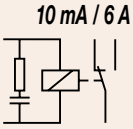
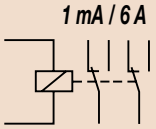
THE PLUS IN OUR PERFORMANCES

- Triac output 400 VAC (50 Hz / 60 Hz)
- Relay output 12 A in 12 mm spacing
- 100 part numbers
- Screw clamp or spring clamp connections

Selection guide
R600 Relay modules

RB..... = screw clamp RBR..... = spring clamp



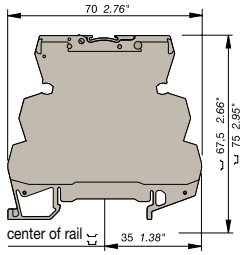
Output \ Input	5 V DC	12 V DC	24 VAC/DC 50 / 60 Hz	48-60 V AC/DC 50 / 60 Hz	115 V AC/DC 50 / 60 Hz	230 V AC/DC 50 / 60 Hz
10 mA / 6 A 			RB 111 A 24 V AC/DC 1SNA 645 014 R2700 spacing : 6 mm RBR 111 A 24 V AC/DC 1SNA 645 514 R2100 spacing : 6 mm	RB 111 A 48-60 V AC/DC 1SNA 645 015 R2000 spacing : 6 mm RBR 111 A 48-60 V AC/DC 1SNA 645 515 R2200 spacing : 6 mm	RB 111 A 115 V AC/DC 1SNA 645 016 R2100 spacing : 6 mm RBR 111 A 115 V AC/DC 1SNA 645 516 R2300 spacing : 6 mm	RB 111 A 230 V AC/DC 1SNA 645 017 R2200 spacing : 6 mm RBR 111 A 230 V AC/DC 1SNA 645 517 R2400 spacing : 6 mm
10 mA / 6 A 			RB 111 AI 24 V AC/DC 1SNA 645 063 R0000 spacing : 6 mm RBR 111 AI 24 V AC/DC 1SNA 645 563 R0200 spacing : 6 mm			
10 mA / 6 A 			RB 111 AR 24 V AC/DC 1SNA 645 018 R0300 spacing : 12 mm RBR 111 AR 24 V AC/DC 1SNA 645 518 R0500 spacing : 12 mm			
10 mA / 6 A 			RB 101 AR 24 V AC/DC 1SNA 645 019 R0400 spacing : 12 mm RBR 101 AR 24 V AC/DC 1SNA 645 519 R0600 spacing : 12 mm			
10 mA / 6 A 	RB 121 5 V DC 1SNA 645 034 R2300 spacing : 6 mm RBR 121 5 V DC 1SNA 645 534 R2500 spacing : 6 mm	RB 121 12 V DC 1SNA 645 035 R2400 spacing : 6 mm RBR 121 12 V DC 1SNA 645 535 R2600 spacing : 6 mm	RB 121 A 24 V AC/DC 1SNA 645 001 R0300 spacing : 6 mm RBR 121 A 24 V AC/DC 1SNA 645 501 R0500 spacing : 6 mm	RB 121 A 48-60 V AC/DC 1SNA 645 002 R0400 spacing : 6 mm RBR 121 A 48-60 V AC/DC 1SNA 645 502 R0600 spacing : 6 mm	RB 121 A 115 V AC/DC 1SNA 645 003 R0500 spacing : 6 mm RBR 121 A 115 V AC/DC 1SNA 645 503 R0700 spacing : 6 mm	RB 121 A 230 V AC/DC 1SNA 645 004 R0400 spacing : 6 mm RBR 121 A 230 V AC/DC 1SNA 645 504 R0000 spacing : 6 mm
1 mA / 6 A 	RB 121 5 V DC 1SNA 645 036 R2500 spacing : 6 mm RBR 121 5 V DC 1SNA 645 536 R2700 spacing : 6 mm	RB 121 12 V DC 1SNA 645 037 R2700 spacing : 6 mm RBR 121 12 V DC 1SNA 645 537 R2000 spacing : 6 mm	RB 121 A 24 V AC/DC 1SNA 645 005 R0700 spacing : 6 mm RBR 121 A 24 V AC/DC 1SNA 645 505 R0100 spacing : 6 mm	RB 121 A 48-60 V AC/DC 1SNA 645 006 R0000 spacing : 6 mm RBR 121 A 48-60 V AC/DC 1SNA 645 506 R0200 spacing : 6 mm	RB 121 A 115 V AC/DC 1SNA 645 007 R0100 spacing : 6 mm RBR 121 A 115 V AC/DC 1SNA 645 507 R0300 spacing : 6 mm	RB 121 A 230 V AC/DC 1SNA 645 008 R1200 spacing : 6 mm RBR 121 A 230 V AC/DC 1SNA 645 508 R1400 spacing : 6 mm
10 mA / 6 A Switch manuel 			RB 121 AI 24 V AC/DC 1SNA 645 032 R2100 spacing : 12 mm RBR 121 AI 24 V AC/DC 1SNA 645 532 R2300 spacing : 12 mm			
1 mA / 6 A Switch manuel 			RB 121 AI 24 V AC/DC 1SNA 645 033 R2200 spacing : 12 mm RBR 121 AI 24 V AC/DC 1SNA 645 533 R2400 spacing : 12 mm			
10 mA / 6 A Switch sécurisé 			RB 121 AI 24 V AC/DC 1SNA 645 009 R1300 spacing : 12 mm RBR 121 AI 24 V AC/DC 1SNA 645 509 R1500 spacing : 12 mm			
1 mA / 6 A Switch sécurisé 			RB 121 AI 24 V AC/DC 1SNA 645 010 R0700 spacing : 12 mm RBR 121 AI 24 V AC/DC 1SNA 645 510 R0100 spacing : 12 mm			
10 mA / 6 A 					RB 121 AR 115 V AC/DC 1SNA 645 046 R0700 spacing : 12 mm RBR 121 AR 115 V AC/DC 1SNA 645 546 R0100 spacing : 12 mm	RB 121 AR 230 V AC/DC 1SNA 645 011 R2500 spacing : 12 mm RBR 121 AR 230 V AC/DC 1SNA 645 511 R2600 spacing : 12 mm
1 mA / 6 A 			RB 122 A 24 V AC/DC 1SNA 645 012 R2500 spacing : 12 mm RBR 122 A 24 V AC/DC 1SNA 645 512 R2700 spacing : 12 mm	RB 122 A 48-60 V AC/DC 1SNA 645 040 R1500 spacing : 12 mm RBR 122 A 48-60 V AC/DC 1SNA 645 540 R1700 spacing : 12 mm	RB 122 A 115 V AC/DC 1SNA 645 041 R0200 spacing : 12 mm RBR 122 A 115 V AC/DC 1SNA 645 541 R0400 spacing : 12 mm	RB 122 A 230 V AC/DC 1SNA 645 013 R2600 spacing : 12 mm RBR 122 A 230 V AC/DC 1SNA 645 513 R2000 spacing : 12 mm

Relay Interfaces

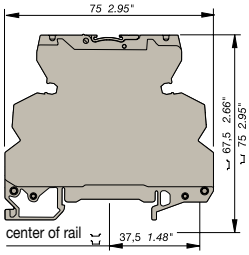
Relay modules R600 ⊔ DIN 3



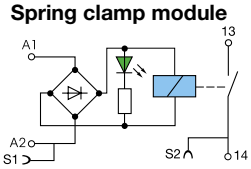




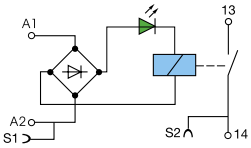
Screw clamp module



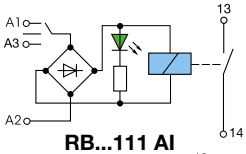
Spring clamp module



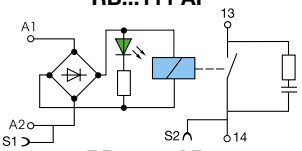
RB...111 A - 24 V AC/DC



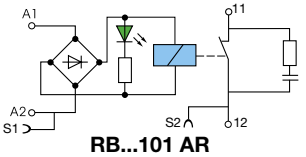
RB...111 A48-60-115-230 V AC/DC



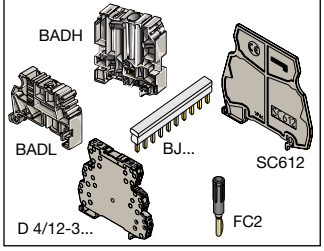
RB...111 AI



RB...111 AR



RB...101 AR

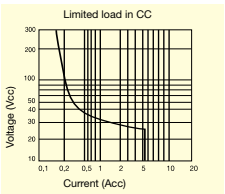


RB...111.../RB...101... - 2,5 mm² blocks - 6 mm .236" or 12 mm .472" spacing

Characteristics

Relay characteristics	RB...111A					RB...111AI	RB...111AR	RB...101AR
COIL								
Rated voltage +20%, -15% on DC ; +10%, -10% on AC	24 VAC/DC	48 VAC/DC	60 VAC/DC	115 VAC/DC	±10% on AC +10% -15% on DC 230 VAC/DC	24 VAC/DC	24 VAC/DC	24 VAC/DC
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	0,24 W	0,34 W	0,54 W	0,46 W	0,8 W	0,24 W	0,24 W	0,24 W
Rated current	10 mA	7 mA	9 mA	4 mA	3,5 mA	10 mA	10 mA	10 mA
Drop-out voltage at 20°C	4,5 V	8 V	8 V	17 V	27 V	4,5 V	4,5 V	4,5 V
Status device	green LED							
CONTACT								
Type	1 NO						1 NO + RC	1 NC + RC
Voltage switching range min./max.	12 V / 250 V AC							
Current switching range min./max.	10 mA / 6 A							
Load switching range AC1 min. / max. DC1 min. / max.	0,6 VA / 1500 VA (ohmic load) 0,6 W / 140 W							
Number of on-load operations	10^5 on AC15							
Number of off-load operations	10^7							
Operating speed F	5 ms	5 ms	5 ms	6 ms	7 ms	5 ms	5 ms	5 ms
O	8 ms	8 ms	8 ms	15 ms	15 ms	8 ms	8 ms	8 ms
Bounce	1,2 ms							
Insulation coil / contact	4000 V RMS							
Resistance to shock coil / contact	4000 V RMS							
Insulation contact / contact	1000 V RMS							
Ambient temperature storage	-40°C to +80°C							
operating	-20°C to +70°C (1)							

Other characteristics	Screw clamp	Spring clamp
Body material grey ☐	UL 94 V0	UL 94 V0
Wire Solid wire	0,2 - 4 mm² / 24 - 12 AWG	0,2 - 2,5 mm² / 24 - 12 AWG
size Stranded wire	0,22 - 2,5 mm² / 24 - 12 AWG	0,22 - 2,5 mm² / 24 - 12 AWG
Rated wire size	2,5 mm² / 12 AWG	2,5 mm² / 12 AWG
Wire stripping length	9 mm .354"	9 mm .354"
Recommended screwdriver	3,5 mm .137"	3,5 mm .137"
Protection	IP20 *NEMA1*	IP20 *NEMA1*
Recommended torque	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*
Approvals	c UL us pending, CE	
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.	



(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.

	DC12	AC12	DC13	AC15
24 V	6 A	6 A	1 A	3 A
110/120 V	0,3 A	6 A	0,2 A	3 A
220/230 V	0,2 A	6 A	0,1 A	3 A

Order codes

Description	Type	Order P/N	Packaging	Weight kg
Screw clamp relay module 6 mm spacing	RB 111 A-24VAC/DC	1SNA **645 014** R**2700**	10	0,02
Screw clamp relay module 6 mm spacing	RB 111 A-48-60VAC/DC	1SNA **645 015** R**2000**	10	0,02
Screw clamp relay module 6 mm spacing	RB 111 A-115VAC/DC	1SNA **645 016** R**2100**	10	0,02
Screw clamp relay module 6 mm spacing	RB 111 A-230VAC/DC	1SNA **645 017** R**2200**	10	0,02
Screw cl. relay mod. with switch 6 mm sp.	RB 111 AI-24VAC/DC	1SNA **645 063** R**0000**	10	0,02
Screw cl. relay mod. w/contact protection 12 mm sp.	RB 111 AR-24VAC/DC	1SNA **645 018** R**0300**	5	0,03
Screw cl. relay mod. w/contact protection 12 mm sp.	RB 101 AR-24VAC/DC	1SNA **645 019** R**0400**	5	0,03
Spring clamp relay module 6 mm spacing	RBR 111 A-24VAC/DC	1SNA **645 514** R**2100**	10	0,02
Spring clamp relay module 6 mm spacing	RBR 111 A-48-60VAC/DC	1SNA **645 515** R**2200**	10	0,02
Spring clamp relay module 6 mm spacing	RBR 111 A-115VAC/DC	1SNA **645 516** R**2300**	10	0,02
Spring clamp relay module 6 mm spacing	RBR 111 A-230VAC/DC	1SNA **645 517** R**2400**	10	0,02
Spring cl. relay mod. with switch 6 mm sp.	RBR 111 AI-24VAC/DC	1SNA **645 563** R**0200**	10	0,02
Spring cl. relay mod. w/contact protection 12 mm sp.	RBR 111 AR-24VAC/DC	1SNA **645 518** R**0500**	5	0,03
Spring cl. relay mod. w/contact protection 12 mm sp.	RBR 101 AR-24VAC/DC	1SNA **645 519** R**0600**	5	0,03

Accessories

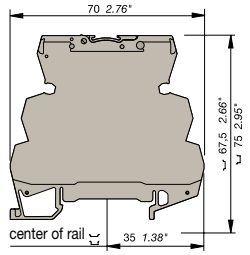
End section	BADH V0	1SNA **116 900** R**2700**	50	
	BADL V0	1SNA **399 903** R**0200**	50	
	BAM2 V0	1SNA **399 967** R**0100**	50	
Separator end section	SC 612	1SNA **290 474** R**0200**	10	
Divisible shunt 10 poles	BJ 612-10	1SNA **290 488** R**0100**	10	
Divisible shunt 70 poles	BJ 612-70	1SNA **290 489** R**0200**	10	
Screw clamp distribution block sp. 12 mm	D4/12-3A-3A	1SNA **645 031** R**2000**	5	
Spring clamp distribution block sp. 12 mm	D4/12-3L-3L	1SNA **645 531** R**2200**	5	
Test plug DIA. 2 mm	FC2	1SNA **007 865** R**2600**	10	
Marking method	RC65 RC610	see marking		

Relay Interfaces

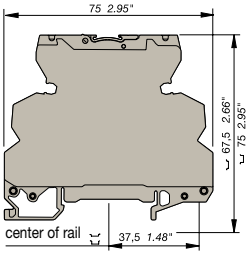
Relay modules R600 ⊔ DIN 3



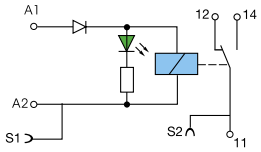




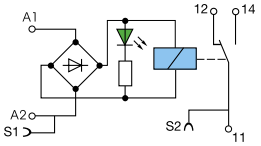
Screw clamp module



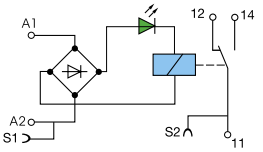
Spring clamp module



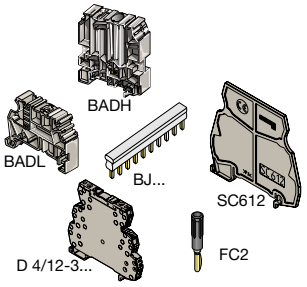
RB...121 - 5-12 V DC



RB...121 A - 24 V AC/DC



RB...121 A
48-60-115-230 V AC/DC

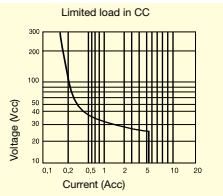


RB...121... - 2,5 mm² blocks - 6 mm *.236*" spacing

Characteristics

Relay characteristics	RB...121		RB...121A				
COIL							±10% on AC +10% -15% on DC
Rated voltage +20%, -15% on DC ; +10%, -10% on AC	5 V DC	12 V DC	24 VAC/DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	230 V AC/DC
Frequency			50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	0,2 W	0,2 W	0,24 W	0,33 W	0,54 W	0,46 W	0,8 W
Rated current	40 mA	16 mA	10 mA	7 mA	9 mA	4 mA	3,5 mA
Drop-out voltage at 20°C	1,2 V	2,2 V	4,5 V	8 V	8 V	17 V	27 V
Status device	green LED						
CONTACT							
Type	1 SPDT						
Voltage switching range min./max.	12 V / 250 V AC						
Current switching range min./max.	10 mA / 6 A						
Load switching range AC1 min. / max.	0,6 VA / 1500 VA (ohmic load)						
Load switching range DC1 min. / max.	0,6 W / 140 W						
Number of on-load operations	10^5 on AC15						
Number of off-load operations	10^7						
Operating speed F	5 ms	5 ms	5 ms	5 ms	5 ms	6 ms	7 ms
Operating speed O	8 ms	8 ms	8 ms	8 ms	8 ms	15 ms	16 ms
Bounce	1,2 ms						
Insulation coil / contact	4000 V RMS						
Resistance to shock coil / contact	4000 V RMS						
Insulation contact / contact	1000 V RMS						
Ambient temperature storage	-40°C to +80°C						
Ambient temperature operating	-20°C to +70°C (1)						

Other characteristics	Screw clamp	Spring clamp
Body material grey ☐	UL 94 V0	UL 94 V0
Wire size Solid wire	0,2 - 4 mm² / 24 - 12 AWG	0,2 - 2,5 mm² / 24 - 12 AWG
Wire size Stranded wire	0,22 - 2,5 mm² / 24 - 12 AWG	0,22 - 2,5 mm² / 24 - 12 AWG
Rated wire size	2,5 mm² / 12 AWG	2,5 mm² / 12 AWG
Wire stripping length	9 mm *.354*"	9 mm *.354*"
Recommended screwdriver	3,5 mm *.137*"	3,5 mm *.137*"
Protection	IP20 *NEMA1*	IP20 *NEMA1*
Recommended torque	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*
Approvals	c UL us pending, CE	
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.	



(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.

	DC12	AC12	DC13	AC15
24 V	6 A	6 A	1 A	3 A
110/120 V	0,3 A	6 A	0,2 A	3 A
220/230 V	0,2 A	6 A	0,1 A	3 A

Order codes

Description	Type	Order P/N	Packaging	Weight kg
Screw clamp relay module	RB 121-5VDC	1SNA **645 034** R**23**00	10	0,02
Screw clamp relay module	RB 121-12VDC	1SNA **645 035** R**24**00	10	0,02
Screw clamp relay module	RB 121 A-24VAC/DC	1SNA **645 001** R**03**00	10	0,02
Screw clamp relay module	RB 121 A-48-60VAC/DC	1SNA **645 002** R**04**00	10	0,02
Screw clamp relay module	RB 121 A-115VAC/DC	1SNA **645 003** R**05**00	10	0,02
Screw clamp relay module	RB 121 A-230VAC/DC	1SNA **645 004** R**04**00	10	0,02
Spring clamp relay module	RBR 121-5VDC	1SNA **645 534** R**25**00	10	0,02
Spring clamp relay module	RBR 121-12VDC	1SNA **645 535** R**26**00	10	0,02
Spring clamp relay module	RBR 121 A-24VAC/DC	1SNA **645 501** R**05**00	10	0,02
Spring clamp relay module	RBR 121 A-48-60VAC/DC	1SNA **645 502** R**06**00	10	0,02
Spring clamp relay module	RBR 121 A-115VAC/DC	1SNA **645 503** R**07**00	10	0,02
Spring clamp relay module	RBR 121 A-230VAC/DC	1SNA **645 504** R**00**00	10	0,02

Accessories

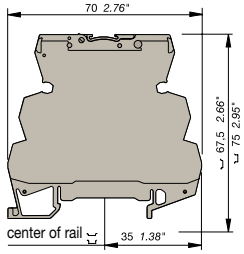
End section	BADH V0	1SNA **116 900** R**27**00	50
	BADL V0	1SNA **399 903** R**02**00	50
	BAM2 V0	1SNA **399 967** R**01**00	50
Separator end section	SC 612	1SNA **290 474** R**02**00	10
Divisible shunt 10 poles	BJ 612-10	1SNA **290 488** R**01**00	10
Divisible shunt 70 poles	BJ 612-70	1SNA **290 489** R**02**00	10
Screw clamp distribution block sp. 12 mm	D4/12-3A-3A	1SNA **645 031** R**20**00	5
Spring clamp distribution block sp. 12 mm	D4/12-3L-3L	1SNA **645 531** R**22**00	5
Test plug DIA. 2 mm	FC2	1SNA **007 865** R**26**00	10
Marking method	RC65 RC610	see marking	

Relay Interfaces

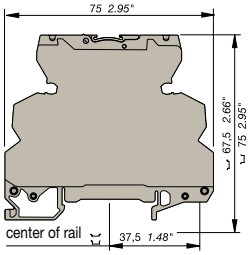
Relay modules R600 ⊔ DIN 3



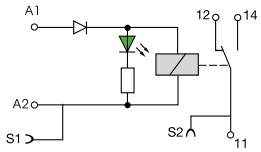




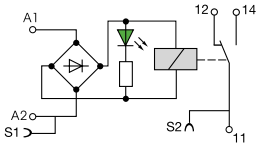
Screw clamp module



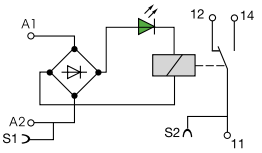
Spring clamp module



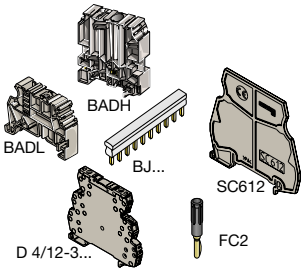
RB...121 - 5-12 V DC



RB...121 A - 24 V AC/DC



RB...121 A
48-60-115-230 V AC/DC

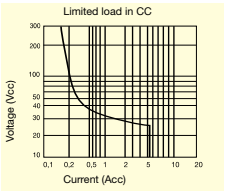


RB...121... - 2,5 mm² blocks - 6 mm .236" spacing

Characteristics

Relay characteristics	RB...121		RB...121A				
COIL							±10% on AC +10% -15% on DC
Rated voltage +20%, -15% on DC ; +10%, -10% on AC	5 V DC	12 V DC	24 VAC/DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	230 V AC/DC
Frequency			50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Power	0,2 W	0,2 W	0,24 W	0,33 W	0,54 W	0,46 W	0,8 W
Rated current	40 mA	16 mA	10 mA	7 mA	9 mA	4 mA	3,5 mA
Drop-out voltage at 20°C	1,2 V	2,2 V	4,5 V	8 V	8 V	17 V	27 V
Status device	green LED						
CONTACT							
Type	1 SPDT						
Voltage switching range min./max.	5 V / 250 V AC						
Current switching range min./max.	1 mA / 6 A						
Load switching range AC1 min. / max.	0,05 VA / 1500 VA (ohmic load)						
Load switching range DC1 min. / max.	0,05 W / 140 W						
Number of on-load operations	10^5 on AC15						
Number of off-load operations	10^7						
Operating speed F	5 ms	5 ms	5 ms	5 ms	5 ms	6 ms	7 ms
Operating speed O	8 ms	8 ms	8 ms	8 ms	8 ms	15 ms	16 ms
Bounce	1,2 ms						
Insulation coil / contact	4000 V RMS						
Resistance to shock coil / contact	4000 V RMS						
Insulation contact / contact	1000 V RMS						
Ambient temperature storage	-40°C to +80°C						
Ambient temperature operating	-20°C to +70°C (1)						

Other characteristics	Screw clamp	Spring clamp
Body material grey ☐	UL 94 V0	UL 94 V0
Wire Solid wire	0,2 - 4 mm² / 24 - 12 AWG	0,2 - 2,5 mm² / 24 - 12 AWG
size Stranded wire	0,22 - 2,5 mm² / 24 - 12 AWG	0,22 - 2,5 mm² / 24 - 12 AWG
Rated wire size	2,5 mm² / 12 AWG	2,5 mm² / 12 AWG
Wire stripping length	9 mm .354"	9 mm .354"
Recommended screwdriver	3,5 mm .137"	3,5 mm .137"
Protection	IP20 *NEMA1*	IP20 *NEMA1*
Recommended torque	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*
Approvals	c UL us pending, CE	
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.	



(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.

	DC12	AC12	DC13	AC15
24 V	6 A	6 A	1 A	3 A
110/120 V	0,3 A	6 A	0,2 A	3 A
220/230 V	0,2 A	6 A	0,1 A	3 A

Order codes

Description	Type	Order P/N	Packaging	Weight kg
Screw clamp relay module low level contact	RB 121-5VDC	1SNA **645 036** R**2500**	10	0,02
Screw clamp relay module low level contact	RB 121-12VDC	1SNA **645 037** R**2600**	10	0,02
Screw clamp relay module low level contact	RB 121 A-24VAC/DC	1SNA **645 005** R**0700**	10	0,02
Screw clamp relay module low level contact	RB 121 A-48-60VAC/DC	1SNA **645 006** R**0000**	10	0,02
Screw clamp relay module low level contact	RB 121 A-115VAC/DC	1SNA **645 007** R**0100**	10	0,02
Screw clamp relay module low level contact	RB 121 A-230VAC/DC	1SNA **645 008** R**1200**	10	0,02
Spring clamp relay module low level contact	RBR 121-5VDC	1SNA **645 536** R**2700**	10	0,02
Spring clamp relay module low level contact	RBR 121-12VDC	1SNA **645 537** R**2000**	10	0,02
Spring clamp relay module low level contact	RBR 121 A-24VAC/DC	1SNA **645 505** R**0100**	10	0,02
Spring clamp relay module low level contact	RBR 121 A-48-60VAC/DC	1SNA **645 506** R**0200**	10	0,02
Spring clamp relay module low level contact	RBR 121 A-115VAC/DC	1SNA **645 507** R**0300**	10	0,02
Spring clamp relay module low level contact	RBR 121 A-230VAC/DC	1SNA **645 508** R**1400**	10	0,02

Accessories

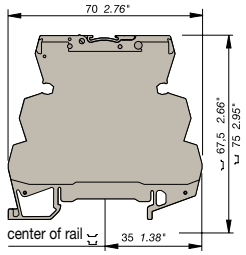
End section	BADH V0	1SNA **116 900** R**2700**	50
	BADL V0	1SNA **399 903** R**0200**	50
	BAM2 V0	1SNA **399 967** R**0100**	50
Separator end section	SC 612	1SNA **290 474** R**0200**	10
Divisible shunt 10 poles	BJ 612-10	1SNA **290 488** R**0100**	10
Divisible shunt 70 poles	BJ 612-70	1SNA **290 489** R**0200**	10
Screw clamp distribution block sp. 12 mm	D4/12-3A-3A	1SNA **645 031** R**2000**	5
Spring clamp distribution block sp. 12 mm	D4/12-3L-3L	1SNA **645 531** R**2200**	5
Test plug DIA. 2 mm	FC2	1SNA **007 865** R**2600**	10
Marking method	RC65 RC610	see marking	

Relay Interfaces

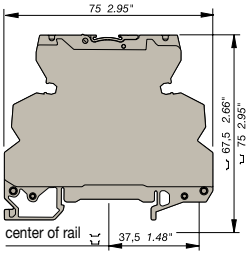
Relay modules R600 ⊔ DIN 3



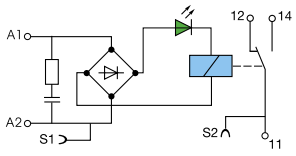




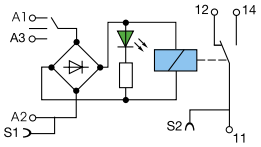
Screw clamp module



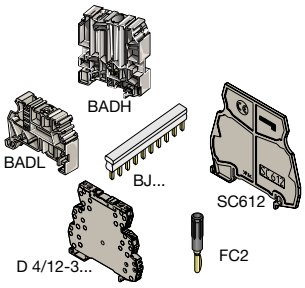
Spring clamp module



RB...121 AR



RB...121 AI



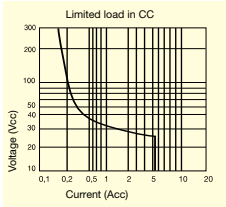
RB...121 A... - 2,5 mm² blocks - 12 mm .472" spacing

Characteristics

Relay characteristics	RB...121 AR		RB...121 AI					
COIL								
Rated voltage +20%, -15% on DC ; +10%, -10% on AC	115 V AC/DC	±10% on AC +10% -15% on DC 230 V AC/DC	24 VAC/DC	24 VAC/DC	24 VAC/DC	24 VAC/DC		
Frequency	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz		
Power	2 W	2,8 W	0,24 W	0,24 W	0,24 W	0,24 W		
Rated current	18 mA	12 mA	10 mA	10 mA	10 mA	10 mA		
Drop-out voltage at 20°C	17 V	27 V	4,5 V	4,5 V	4,5 V	4,5 V		
Status device	green LED				green LED			
CONTACT								
Type	1 SPDT				1 SPDT			
Voltage switching range min./max.	12 V / 250 V				5 V / 250 V			
Current switching range min./max.	10 mA / 6 A				1 mA / 6 A			
Load switching range AC1 min. / max. DC1 min. / max.	0,6 VA / 1500 VA (ohmic load) 0,6 W / 140 W				0,05 VA/1500 VA (ohmic load) 0,05 W / 140 W			
Number of on-load operations	10^5 on AC15				10^5 on AC15			
Number of off-load operations	10^7				10^7			
Operating speed F	6 ms	7 ms	5 ms	5 ms	5 ms	5 ms		
O	15 ms	16 ms	8 ms	8 ms	8 ms	8 ms		
Bounce								
Insulation coil / contact	4000 V RMS							
Resistance to shock coil / contact	4000 V RMS							
Insulation contact / contact	1000 V RMS							
Ambient temperature storage	-40°C to +80°C							
operating	-20°C to +70°C (1)							

Other characteristics			
Body material	grey ☐	Screw clamp UL 94 V0	Spring clamp UL 94 V0
Wire size	Solid wire	0,2 - 4 mm² / 24 - 12 AWG	0,2 - 2,5 mm² / 24 - 12 AWG
	Stranded wire	0,22 - 2,5 mm² / 24 - 12 AWG	0,22 - 2,5 mm² / 24 - 12 AWG
Rated wire size		2,5 mm² / 12 AWG	2,5 mm² / 12 AWG
Wire stripping length		9 mm .354"	9 mm .354"
Recommended screwdriver		3,5 mm .137"	3,5 mm .137"
Protection		IP20 *NEMA1*	IP20 *NEMA1*
Recommended torque		0,4 - 0,6 Nm *3.5 - 5.3 lb.in*	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*
Approvals		c UL us pending, CE	
Reference standards		CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.	

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.



	DC12	AC12	DC13	AC15
24 V	6 A	6 A	1 A	3 A
110/120 V	0,3 A	6 A	0,2 A	3 A
220/230 V	0,2 A	6 A	0,1 A	3 A

Order codes

Description	Type	Order P/N	Packaging	Weight kg
Screw cl. relay module w/leakage current protection	RB 121 AR-115VAC/DC	1SNA **645 046** R**07**00	5	0,03
Screw cl. relay module w/leakage current protection	RB 121 AR-230VAC/DC	1SNA **645 011** R**24**00	5	0,03
Screw clamp relay module with switch	RB 121 AI-24VAC/DC	1SNA **645 032** R**21**00	5	0,03
Screw clamp relay module with safety switch	RB 121 AI-24VAC/DC	1SNA **645 009** R**13**00	5	0,03
Screw clamp relay module low level w/switch	RB 121 AI-24VAC/DC	1SNA **645 033** R**22**00	5	0,03
Screw clamp relay module low level w/safety switch	RB 121 AI-24VAC/DC	1SNA **645 010** R**07**00	5	0,03
Spring cl. relay module w/leakage current protection	RBR 121 AR-115VAC/DC	1SNA **645 546** R**01**00	5	0,03
Spring cl. relay module w/leakage current protection	RBR 121 AR-230VAC/DC	1SNA **645 511** R**26**00	5	0,03
Spring clamp relay module with switch	RBR 121 AI-24VAC/DC	1SNA **645 532** R**23**00	5	0,03
Spring clamp relay module with safety switch	RBR 121 AI-24VAC/DC	1SNA **645 509** R**15**00	5	0,03
Spring clamp relay module low level w/switch	RBR 121 AI-24VAC/DC	1SNA **645 533** R**24**00	5	0,03
Spring clamp relay module low level w/safety switch	RBR 121 AI-24VAC/DC	1SNA **645 510** R**01**00	5	0,03

Accessories

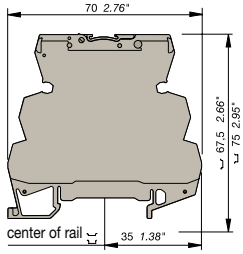
End section	BADH V0	1SNA **116 900** R**27**00	50
	BADL V0	1SNA **399 903** R**02**00	50
	BAM2 V0	1SNA **399 967** R**01**00	50
Separator end section	SC 612	1SNA **290 474** R**02**00	10
Divisible shunt 10 poles	BJ 612-10	1SNA **290 488** R**01**00	10
Divisible shunt 70 poles	BJ 612-70	1SNA **290 489** R**02**00	10
Screw clamp distribution block sp. 12 mm	D4/12-3A-3A	1SNA **645 031** R**20**00	5
Spring clamp distribution block sp. 12 mm	D4/12-3L-3L	1SNA **645 531** R**22**00	5
Test plug DIA. 2 mm	FC2	1SNA **007 865** R**26**00	10
Marking method	RC65 RC610	see marking	

Relay Interfaces

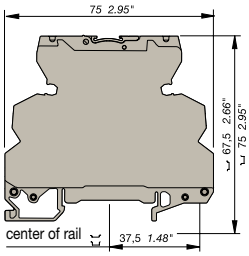
Relay modules R600 ⊔ DIN 3



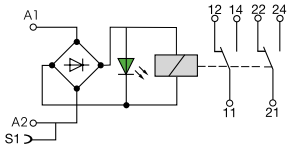




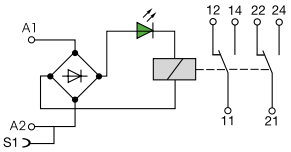
Screw clamp module



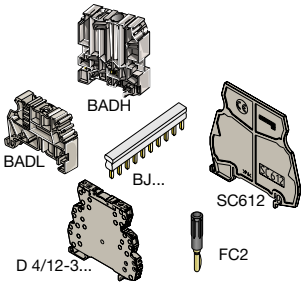
Spring clamp module



RB...122 A
24-48-60 V AC/DC



RB...122 A
115-230 V AC/DC



RB...122A - 2,5 mm² blocks - 12 mm .*472*" spacing

Characteristics

Relay characteristics		RB...122A							
COIL									
Rated voltage +20%, -15% on DC ; +10%, -10% on AC		24 VAC/DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	±10% on AC +10% -15% on DC 230 V AC/DC			
Frequency		50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz			
Power		0,48 W	0,62 W	0,96 W	0,58 W	1,15 W			
Rated current		20 mA	13 mA	16 mA	5 mA	5 mA			
Drop-out voltage at 20°C		5,4 V	8,8 V	8,8 V	20 V	10 V			
Status device		green LED							
CONTACT									
Type		1 DPDT							
Voltage switching range min./max.		5 V / 250 V DC - 250 V AC							
Current switching range min./max.		1 mA / 6 A							
Load switching range									
AC1 min. / max.		5 mVA / 1500 VA							
DC1 min. / max.		5 mW / 192 W							
Number of on-load operations		10^5							
Number of off-load operations		2 x 10^7							
Operating speed	F	6 ms	10 ms	10 ms	6 ms	6 ms			
	O	10 ms	14 ms	14 ms	15 ms	15 ms			
Bounce		1 ms							
Insulation coil / contact		4000 V RMS							
Resistance to shock coil / contact		4000 V RMS							
Insulation contact / contact		3500 V RMS							
Ambient temperature	storage	-40°C to +80°C							
	operating	-20°C to +70°C (1)							

Other characteristics		Screw clamp	Spring clamp
Body material	grey □	UL 94 V0	UL 94 V0
Wire	Solid wire	0,2 - 4 mm² / 24 - 12 AWG	0,2 - 2,5 mm² / 24 - 12 AWG
size	Stranded wire	0,22 - 2,5 mm² / 24 - 12 AWG	0,22 - 2,5 mm² / 24 - 12 AWG
Rated wire size		2,5 mm² / 12 AWG	2,5 mm² / 12 AWG
Wire stripping length		9 mm .*354*"	9 mm .*354*"
Recommended screwdriver		3,5 mm .*137*"	3,5 mm .*137*"
Protection		IP20 *NEMA1*	IP20 *NEMA1*
Recommended torque		0,4 - 0,6 Nm *3.5 - 5.3 lb.in*	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*
Approvals		c UL us pending, CE	
Reference standards		CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.	

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.

Order codes

Description	Type	Order P/N	Packaging	Weight kg
Screw clamp relay module	RB 122 A-24VAC/DC	1SNA **645 012** R**25**00	5	0,03
Screw clamp relay module	RB 122 A-48-60VAC/DC	1SNA **645 040** R**15**00	5	0,03
Screw clamp relay module	RB 122 A-115VAC/DC	1SNA **645 041** R**02**00	5	0,03
Screw clamp relay module	RB 122 A-230VAC/DC	1SNA **645 013** R**26**00	5	0,03
Spring clamp relay module	RBR 122 A-24VAC/DC	1SNA **645 512** R**27**00	5	0,03
Spring clamp relay module	RBR 122 A-48-60VAC/DC	1SNA **645 540** R**17**00	5	0,03
Spring clamp relay module	RBR 122 A-115VAC/DC	1SNA **645 541** R**04**00	5	0,03
Spring clamp relay module	RBR 122 A-230VAC/DC	1SNA **645 513** R**20**00	5	0,03

Accessories

End section	BADH V0	1SNA **116 900** R**27**00	50
	BADL V0	1SNA **399 903** R**02**00	50
	BAM2 V0	1SNA **399 967** R**01**00	50
Separator end section	SC 612	1SNA **290 474** R**02**00	10
Divisible shunt 10 poles	BJ 612-10	1SNA **290 488** R**01**00	10
Divisible shunt 70 poles	BJ 612-70	1SNA **290 489** R**02**00	10
Screw clamp distribution block sp. 12 mm	D4/12-3A-3A	1SNA **645 031** R**20**00	5
Spring clamp distribution block sp. 12 mm	D4/12-3L-3L	1SNA **645 531** R**22**00	5
Test plug DIA. 2 mm	FC2	1SNA **007 865** R**26**00	10
Marking method	RC65 RC610	see marking	

Selection guide
R600 Optocoupler modules



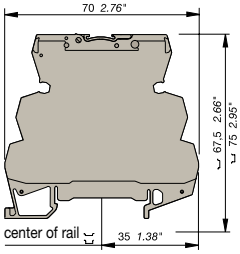
OB..... = screw clamp OBR..... = spring clamp

Output \ Input	5-12 V DC	24 V DC	24 VAC/DC 50 / 60 Hz	48-60 V AC/DC 50 / 60 Hz	115 V AC/DC 50 / 60 Hz	115-230 V AC/DC 50 / 60 Hz	230 V AC/DC 50 / 60 Hz
100 mA 4,5 to 58 V DC	**OBIC 0100 5-12 V DC** 1SNA **645 047** R**00**00 *spacing : 6 mm* **OBRIC 0100 5-12 V DC** 1SNA **645 547** R**02**00 *spacing : 6 mm*	**OBIC 0100 24 V DC** 1SNA **645 021** R**26**00 *spacing : 6 mm* **OBRIC 0100 24 V DC** 1SNA **645 521** R**20**00 *spacing : 6 mm*		**OBIC 0100 48-60 V AC/DC** 1SNA **645 049** R**12**00 *spacing : 6 mm* **OBRIC 0100 48-60 V AC/DC** 1SNA **645 549** R**14**00 *spacing : 6 mm*		**OBIC 0100 115-230 V AC/DC** 1SNA **645 022** R**27**00 *spacing : 6 mm* **OBRIC 0100 115-230 V AC/DC** 1SNA **645 522** R**21**00 *spacing : 6 mm*	
2 A 4,5 to 58 V DC	**OBOC 1000 5-12 V DC** 1SNA **645 050** R**17**00 *spacing : 6 mm* **OBROC 1000 5-12 V DC** 1SNA **645 550** R**11**00 *spacing : 6 mm*	**OBOC 1000 24 V DC** 1SNA **645 051** R**04**00 *spacing : 6 mm* **OBROC 1000 24 V DC** 1SNA **645 551** R**06**00 *spacing : 6 mm*	**OBOC 1500 24 V AC/DC** 1SNA **645 025** R**22**00 *spacing : 6 mm* **OBROC 1500 24 V AC/DC** 1SNA **645 525** R**24**00 *spacing : 6 mm*	**OBOC 1000 48-60 V AC/DC** 1SNA **645 053** R**06**00 *spacing : 6 mm* **OBROC 1000 48-60 V AC/DC** 1SNA **645 553** R**00**00 *spacing : 6 mm*	**OBOC 1000 115 V AC/DC** 1SNA **645 054** R**07**00 *spacing : 6 mm* **OBROC 1000 115 V AC/DC** 1SNA **645 554** R**01**00 *spacing : 6 mm*		**OBOC 1000 230 V AC/DC** 1SNA **645 026** R**23**00 *spacing : 6 mm* **OBROC 1000 230 V AC/DC** 1SNA **645 526** R**25**00 *spacing : 6 mm*
5 A 4,5 to 58 V DC		**OBOC 5000 24 V DC** 1SNA **645 024** R**21**00 *spacing : 6 mm* **OBROC 5000 24 V DC** 1SNA **645 524** R**23**00 *spacing : 6 mm*			**OBOC 5000 115 V AC/DC** 1SNA **645 058** R**13**00 *spacing : 6 mm* **OBROC 5000 115 V AC/DC** 1SNA **645 558** R**15**00 *spacing : 6 mm*		**OBOC 5000 230 V AC/DC** 1SNA **645 059** R**14**00 *spacing : 6 mm* **OBROC 5000 230 V AC/DC** 1SNA **645 559** R**16**00 *spacing : 6 mm*
1 A 24 to 400 V AC 50 / 60 Hz		**OBOA 1000 24 V DC** 1SNA **645 027** R**24**00 *spacing : 6 mm* **OBROA 1000 24 V DC** 1SNA **645 527** R**26**00 *spacing : 6 mm*		**OBOA 1000 48-60 V AC/DC** 1SNA **645 061** R**06**00 *spacing : 6 mm* **OBROA 1000 48-60 V AC/DC** 1SNA **645 561** R**00**00 *spacing : 6 mm*	**OBOA 1000 115 V AC/DC** 1SNA **645 062** R**07**00 *spacing : 6 mm* **OBROA 1000 115 V AC/DC** 1SNA **645 562** R**01**00 *spacing : 6 mm*		**OBOA 1000 230 V AC/DC** 1SNA **645 028** R**05**00 *spacing : 6 mm* **OBROA 1000 230 V AC/DC** 1SNA **645 528** R**07**00 *spacing : 6 mm*
2 A 10 to 230 VAC 50 / 60 Hz			**OBOA 2000 24 V AC/DC** 1SNA **645 029** R**06**00 *spacing : 6 mm* **OBOA 2000 24 V AC/DC** 1SNA **645 529** R**00**00 *spacing : 6 mm*				

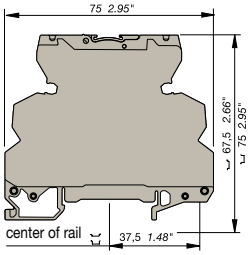


OB...IC 0100 - 2,5 mm² blocks - 6 mm .236" spacing





Screw clamp module



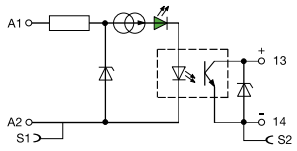
Spring clamp module

Characteristics

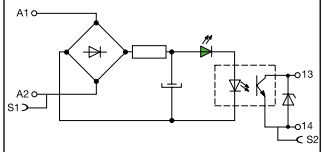
Opto. characteristics		OB...IC 0100						
INPUT								
Input voltage +20% -15% on DC, +10% -10% on AC		5 V DC - 12 V DC		24 V DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	230 V AC/DC
Frequency					50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Input current		5 mA	9 mA	4 mA	4 mA	5 mA		
Pull-in voltage at Is=100%		4 V	4 V	15 V	25 V	25 V		
Switching time C / O		10 µs / 500 µs		10 µs / 500 µs	5 ms / 20 ms			
Operating frequency		1000 Hz		1000 Hz	20 Hz			
Permissible leakage current		0,9 mA		1 mA	0,9 mA			
OUTPUT								
Output voltage		4,5 to 58 VDC						
Output current min.		1 mA						
Output current max.		100 mA						
Output leakage current at Umax.		< 50 µA						
Residual voltage at I max and U rated	typical	1 V						
	max.	1,3 V						
Frequency on inductive load								
Isolation Input / Output		2500 V RMS						
TEMPERATURE								
Ambient temperature	storage	-40°C to +80°C						
	operating	-20°C to +70°C (1)						

Other characteristics		Screw clamp	Spring clamp
Body material	grey ☐	UL 94 V0	UL 94 V0
Wire size	Solid wire	0,2 - 4 mm² / 24 - 12 AWG	0,2 - 2,5 mm² / 24 - 12 AWG
	Stranded wire	0,22 - 2,5 mm² / 24 - 12 AWG	0,22 - 2,5 mm² / 24 - 12 AWG
Rated wire size		2,5 mm² / 12 AWG	2,5 mm² / 12 AWG
Wire stripping length		9 mm .354"	9 mm .354"
Recommended screwdriver		3,5 mm .137"	3,5 mm .137"
Protection		IP20 *NEMA1*	IP20 *NEMA1*
Recommended torque		0,4 - 0,6 Nm *3.5 - 5.3 lb.in*	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*
Approvals		c UL us pending, CE	
Reference standards		CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.	

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.



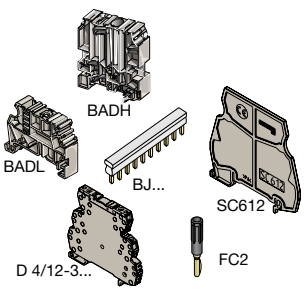
OB...IC 0100 - 5-12 V DC



OB...IC 0100
24 V DC
24-48-60-115-230 V AC/DC

Order codes

Description	Type	Order P/N	Packaging	Weight kg
Screw clamp optocoupler module 100 mA/DC	OBIC 0100-5-12VDC	1SNA **645 047** R**00**00	10	0,02
Screw clamp optocoupler module 100 mA/DC	OBIC 0100-24VDC	1SNA **645 021** R**26**00	10	0,02
Screw clamp optocoupler module 100 mA/DC	OBIC 0100-48-60VAC/DC	1SNA **645 049** R**12**00	10	0,02
Screw clamp optocoupler module 100 mA/DC	OBIC 0100-115-230VAC/DC	1SNA **645 022** R**27**00	10	0,02
Spring clamp optocoupler module 100 mA/DC	OBRIC 0100-5-12VDC	1SNA **645 547** R**02**00	10	0,02
Spring clamp optocoupler module 100 mA/DC	OBRIC 0100-24VDC	1SNA **645 521** R**20**00	10	0,02
Spring clamp optocoupler module 100 mA/DC	OBRIC 0100-48-60VAC/DC	1SNA **645 549** R**14**00	10	0,02
Spring clamp optocoupler module 100 mA/DC	OBRIC 0100-115-230VAC/DC	1SNA **645 522** R**21**00	10	0,02



Accessories

End section	BADH V0	1SNA **116 900** R**27**00	50
	BADL V0	1SNA **399 903** R**02**00	50
	BAM2 V0	1SNA **399 967** R**01**00	50
Separator end section	SC 612	1SNA **290 474** R**02**00	10
Divisible shunt 10 poles	BJ 612-10	1SNA **290 488** R**01**00	10
Divisible shunt 70 poles	BJ 612-70	1SNA **290 489** R**02**00	10
Screw clamp distribution block sp. 12 mm	D4/12-3A-3A	1SNA **645 031** R**20**00	5
Spring clamp distribution block sp. 12 mm	D4/12-3L-3L	1SNA **645 531** R**22**00	5
Test plug DIA. 2 mm	FC2	1SNA **007 865** R**26**00	10
Marking method	RC65 RC610	see marking	

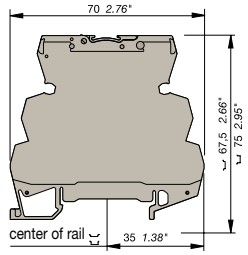
Electronic Interfaces

R600 optocoupler modules

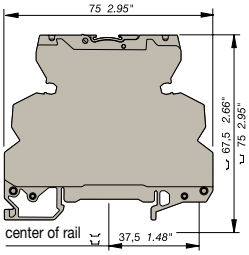


DIN 3

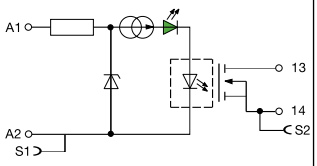




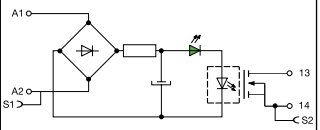
Screw clamp module



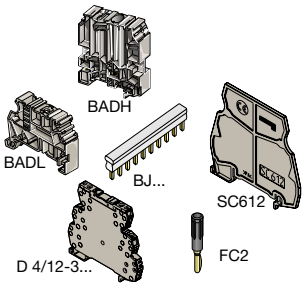
Spring clamp module



OB...OC 1000 - 5-12-24 V DC



OB...OC 1500 - 24 V AC/DC
OB...OC 1000
48-60-115-230 V AC/DC



OB...OC 1... - 2,5 mm² blocks - 6 mm *.236*" spacing

Characteristics

Opto. characteristics	OB...OC 1000		OB...OC 1500	OB...OC 1000			
INPUT							
Input voltage +20% -15% on DC, +10% -10% on AC	5 V DC - 12 V DC	24 V DC	24 V AC/DC	48 V AC/DC	60 V AC/DC	115 V AC/DC	230 V AC/DC
Frequency			50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Input current	5 mA | 9 mA	5,4 mA	6,3 mA	4 mA	5,1 mA	4,2 mA	4 mA
Pull-in voltage at Is=100%	4 V	12 V	15 V	27 V	27 V	50 V	80 V
Switching time C / O	15 µs / 250 µs	30 µs/400 µs	1 ms/7 ms	5 ms/20 ms	5 ms/20 ms	500 µs/10 ms	1 ms / 15 ms
Operating frequency	2000 Hz	1000 Hz	60 Hz	20 Hz	20 Hz	50 Hz	35 Hz
Permissible leakage current	1 mA	0,8 mA	0,9 mA	1 mA	1 mA	0,3 mA	0,3 mA
OUTPUT							
Output voltage	4,5 to 58 VDC						
Output current min.	1 mA						
Output current max.	2 A						
Output leakage current at Umax.	< 50 µA						
Residual voltage at I max and U rated typical	0,1 V						
Residual voltage at I max and U rated max.	0,5 V						
Frequency on inductive load							
Isolation Input / Output	2500 V RMS						
TEMPERATURE							
Ambient temperature storage	-40°C to +80°C						
Ambient temperature operating	-20°C to +70°C (1)						

Other characteristics	Screw clamp	Spring clamp
Body material grey □	UL 94 V0	UL 94 V0
Wire size Solid wire	0,2 - 4 mm² / 24 - 12 AWG	0,2 - 2,5 mm² / 24 - 12 AWG
Wire size Stranded wire	0,22 - 2,5 mm² / 24 - 12 AWG	0,22 - 2,5 mm² / 24 - 12 AWG
Rated wire size	2,5 mm² / 12 AWG	2,5 mm² / 12 AWG
Wire stripping length	9 mm *.354*"	9 mm *.354*"
Recommended screwdriver	3,5 mm *.137*"	3,5 mm *.137*"
Protection	IP20 *NEMA1*	IP20 *NEMA1*
Recommended torque	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*
Approvals	c UL us pending, CE	
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.	

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.

Order codes

Description	Type	Order P/N	Packaging	Weight kg
Screw clamp optocoupler module 1 A/DC	OBOC 1000-5-12VDC	1SNA **645 050** R**17**00	10	0,02
Screw clamp optocoupler module 1 A/DC	OBOC 1000-24VDC	1SNA **645 051** R**04**00	10	0,02
Screw clamp optocoupler module 1,5 A/DC	OBOC 1500-24VAC/DC	1SNA **645 025** R**22**00	10	0,02
Screw clamp optocoupler module 1 A/DC	OBOC 1000-48-60VAC/DC	1SNA **645 053** R**06**00	10	0,02
Screw clamp optocoupler module 1 A/DC	OBOC 1000-115VAC/DC	1SNA **645 054** R**07**00	10	0,02
Screw clamp optocoupler module 1 A/DC	OBOC 1000-230VAC/DC	1SNA **645 026** R**23**00	10	0,02
Spring clamp optocoupler module 1 A/DC	OBROC 1000-5-12VDC	1SNA **645 550** R**11**00	10	0,02
Spring clamp optocoupler module 1 A/DC	OBROC 1000-24VDC	1SNA **645 551** R**06**00	10	0,02
Spring clamp optocoupler module 1,5 A/DC	OBROC 1500-24VAC/DC	1SNA **645 525** R**24**00	10	0,02
Spring clamp optocoupler module 1 A/DC	OBROC 1000-48-60VAC/DC	1SNA **645 553** R**00**00	10	0,02
Spring clamp optocoupler module 1 A/DC	OBROC 1000-115VAC/DC	1SNA **645 554** R**01**00	10	0,02
Spring clamp optocoupler module 1 A/DC	OBROC 1000-230VAC/DC	1SNA **645 526** R**25**00	10	0,02

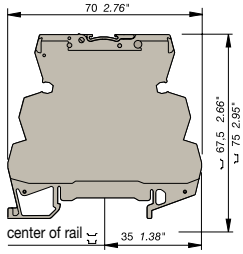
Accessories

End section	BADH V0	1SNA **116 900** R**27**00	50
	BADL V0	1SNA **399 903** R**02**00	50
	BAM2 V0	1SNA **399 967** R**01**00	50
Separator end section	SC 612	1SNA **290 474** R**02**00	10
Divisible shunt 10 poles	BJ 612-10	1SNA **290 488** R**01**00	10
Divisible shunt 70 poles	BJ 612-70	1SNA **290 489** R**02**00	10
Screw clamp distribution block sp. 12 mm	D4/12-3A-3A	1SNA **645 031** R**20**00	5
Spring clamp distribution block sp. 12 mm	D4/12-3L-3L	1SNA **645 531** R**22**00	5
Test plug DIA. 2 mm	FC2	1SNA **007 865** R**26**00	10
Marking method	RC65 RC610	see marking	

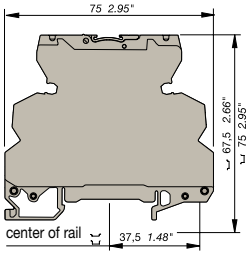


OB...OC 5000 - 2,5 mm² blocks - 6 mm *.236*" spacing





Screw clamp module



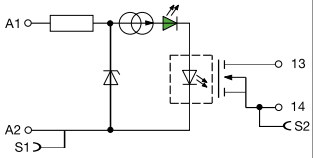
Spring clamp module

Characteristics

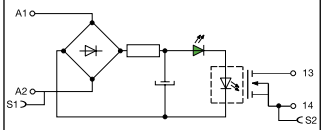
Opto. characteristics	OB...OC 5000						
INPUT							
Input voltage +20% -15% on DC, +10% -10% on AC		24 V DC				115 V AC/DC	230 V AC/DC
Frequency						50 / 60 Hz	50 / 60 Hz
Input current		5,4 mA				4,2 mA	4 mA
Pull-in voltage at Is=100%		12 V				50 V	80 V
Switching time C / O		30 µs/400 µs				500 µs/10 ms	1 ms / 15 ms
Operating frequency		1000 Hz				50 Hz	35 Hz
Permissible leakage current		0,8 mA				0,3 mA	0,3 mA
OUTPUT							
Output voltage	4,5 to 58 VDC						
Output current min.	1 mA						
Output current max.	5 A						
Output leakage current at Umax.	< 50 µA						
Residual voltage at I max and U rated typical	0,1 V						
Residual voltage at I max and U rated max.	0,5 V						
Frequency on inductive load							
Isolation Input / Output	2500 V RMS						
TEMPERATURE							
Ambient temperature storage	-40°C to +80°C						
Ambient temperature operating	-20°C to +70°C (1)						

Other characteristics	Screw clamp	Spring clamp
Body material grey ☐	UL 94 V0	UL 94 V0
Wire Solid wire	0,2 - 4 mm² / 24 - 12 AWG	0,2 - 2,5 mm² / 24 - 12 AWG
size Stranded wire	0,22 - 2,5 mm² / 24 - 12 AWG	0,22 - 2,5 mm² / 24 - 12 AWG
Rated wire size	2,5 mm² / 12 AWG	2,5 mm² / 12 AWG
Wire stripping length	9 mm *.354*"	9 mm *.354*"
Recommended screwdriver	3,5 mm *.137*"	3,5 mm *.137*"
Protection	IP20 *NEMA1*	IP20 *NEMA1*
Recommended torque	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*
Approvals	c UL us pending, CE	
Reference standards	CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.	

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.



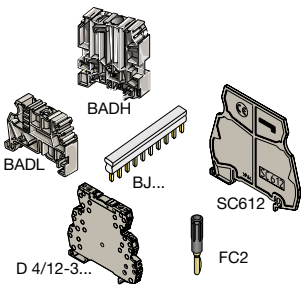
OB...OC 5000 - 5-12-24 V DC



OB...OC 5000
24-48-60-115-230 V AC/DC

Order codes

Description	Type	Order P/N	Packaging	Weight kg
Screw clamp optocoupler module 5 A/DC	OBOC 5000-24VDC	1SNA **645 024** R**21**00	10	0,02
Screw clamp optocoupler module 5 A/DC	OBOC 5000-115VAC/DC	1SNA **645 058** R**13**00	10	0,02
Screw clamp optocoupler module 5 A/DC	OBOC 5000-230VAC/DC	1SNA **645 059** R**14**00	10	0,02
Spring clamp optocoupler module 5 A/DC	OBROC 5000-24VDC	1SNA **645 524** R**23**00	10	0,02
Spring clamp optocoupler module 5 A/DC	OBROC 5000-115VAC/DC	1SNA **645 558** R**15**00	10	0,02
Spring clamp optocoupler module 5 A/DC	OBROC 5000-230VAC/DC	1SNA **645 559** R**16**00	10	0,02



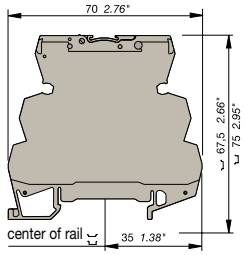
Accessories

End section	BADH V0	1SNA **116 900** R**27**00	50
	BADL V0	1SNA **399 903** R**02**00	50
	BAM2 V0	1SNA **399 967** R**01**00	50
Separator end section	SC 612	1SNA **290 474** R**02**00	10
Divisible shunt 10 poles	BJ 612-10	1SNA **290 488** R**01**00	10
Divisible shunt 70 poles	BJ 612-70	1SNA **290 489** R**02**00	10
Screw clamp distribution block sp. 12 mm	D4/12-3A-3A	1SNA **645 031** R**20**00	5
Spring clamp distribution block sp. 12 mm	D4/12-3L-3L	1SNA **645 531** R**22**00	5
Test plug DIA. 2 mm	FC2	1SNA **007 865** R**26**00	10
Marking method	RC65 RC610	see marking	

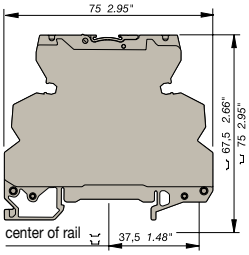


OB...OA 1000 / OB...OA 2000 - 2.5 mm² blocks - 6 or 12 mm spacing





Screw clamp module



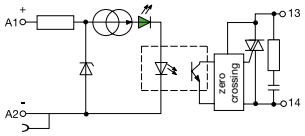
Spring clamp module

Characteristics

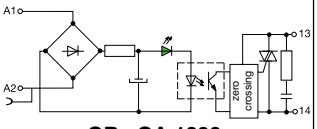
Opto. characteristics		OB...OA 1000						OB...OA 2000
INPUT								
Input voltage +20% -15% on DC, +10% -10% on AC		24 V DC		48 V AC/DC	60 V AC/DC	115 V AC/DC	230 V AC/DC	24 V DC
Frequency				50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz	
Input current		3,6 mA		4,3 mA	5,5 mA	4,15 mA	4,6 mA	3,6 mA
Pull-in voltage at Is=100%		14 V		15 V	18 V	60 V	135 V	14 V
Switching time C / O		150 µs/1ms		3 ms / 30 ms		2,2 ms/18 ms	2,5 ms/25 ms	150 µs/1 ms
Operating frequency		500 Hz		20 Hz		25 Hz	20 Hz	500 Hz
Permissible leakage current		1 mA		1 mA		1 mA	1 mA	1 mA
OUTPUT								
Output voltage		24 to 400 V AC						10to230VAC
Frequency		50 / 60 Hz						50 / 60 Hz
Output current min.		25 mA						25 mA
Output current max.		1 A						2 A
Output leakage current at Umax.		< 0,5 mA						
Residual voltage at I max and U rated	typical	1 V						
	max.	1,6 V						
Frequency on inductive load								
Isolation Input / Output		2500 V RMS						
TEMPERATURE								
Ambient temperature	storage	- 40°C to + 80°C						
	operating	-20°C to +70°C (1)						

Other characteristics		Screw clamp	Spring clamp
Body material	grey ☐	UL 94 V0	UL 94 V0
Wire size	Solid wire	0,2 - 4 mm² / 24 - 12 AWG	0,2 - 2,5 mm² / 24 - 12 AWG
	Stranded wire	0,22 - 2,5 mm² / 24 - 12 AWG	0,22 - 2,5 mm² / 24 - 12 AWG
Rated wire size		2,5 mm² / 12 AWG	2,5 mm² / 12 AWG
Wire stripping length		9 mm *.354"*	9 mm *.354"*
Recommended screwdriver		3,5 mm *.137"*	3,5 mm *.137"*
Protection		IP20 *NEMA1*	IP20 *NEMA1*
Recommended torque		0,4 - 0,6 Nm *3.5 - 5.3 lb.in*	0,4 - 0,6 Nm *3.5 - 5.3 lb.in*
Approvals		c UL us pending, CE	
Reference standards		CEI 947-7-1 / CEI 947-1 / CEI 1131-2 (in relevant parts) / CEI 60664-1 / CEM : IRC 1000-4-2, 3, 4, 5, 6.	

(1) Over 55°C, blocks have to be mounted on horizontal rail with 10 mm spacing between each block. For vertical rail mounting use temperature is 15°C less decreased.



OB...OA 1000 - 5-12-24 V DC

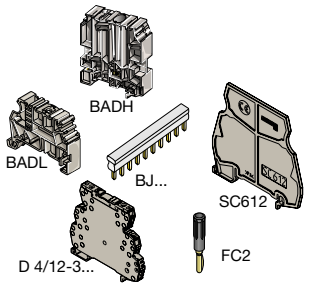


OB...OA 1000
24-48-115-230 V AC/DC
OB...OA 2000 - 24 V AC/DC

Order codes

Description	Type	Order P/N	Packaging	Weight kg
Screw opto. 1 A/AC	OBOA 1000-24VDC	1SNA **645 027** R**24**00	10	0,03
Screw opto. 1 A/AC	OBOA 1000-48-60VAC/DC	1SNA **645 061** R**06**00	10	0,03
Screw opto. 1 A/AC	OBOA 1000-115VAC/DC	1SNA **645 062** R**07**00	10	0,03
Screw opto. 1 A/AC	OBOA 1000-230VAC/DC	1SNA **645 028** R**05**00	10	0,03
Screw opto. 2 A/AC - 12 mm spacing	OBOA 2000-24VDC	1SNA **645 029** R**06**00	5	0,03
Spring opto. 1 A/AC	OBROA 1000-24VDC	1SNA **645 527** R**26**00	10	0,03
Spring opto. 1 A/AC	OBROA 1000-48-60VAC/DC	1SNA **645 561** R**00**00	10	0,03
Spring opto. 1 A/AC	OBROA 1000-115VAC/DC	1SNA **645 562** R**01**00	10	0,03
Spring opto. 1 A/AC	OBROA 1000-230VAC/DC	1SNA **645 528** R**07**00	10	0,03
Spring opto. 2 A/AC - 12 mm spacing	OBROA 2000-24VAC/DC	1SNA **645 529** R**00**00	5	0,03

Accessories

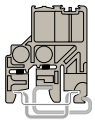


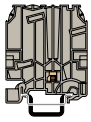
End section	BADH V0	1SNA **116 900** R**27**00	50
	BADL V0	1SNA **399 903** R**02**00	50
	BAM2 V0	1SNA **399 967** R**01**00	50
Separator end section	SC 612	1SNA **290 474** R**02**00	10
Divisible shunt 10 poles	BJ 612-10	1SNA **290 488** R**01**00	10
Divisible shunt 70 poles	BJ 612-70	1SNA **290 489** R**02**00	10
Screw clamp distribution block sp. 12 mm	D4/12-3A-3A	1SNA **645 031** R**20**00	5
Spring clamp distribution block sp. 12 mm	D4/12-3L-3L	1SNA **645 531** R**22**00	5
Test plug DIA. 2 mm	FC2	1SNA **007 865** R**26**00	10
Marking method	RC65 RC610	see marking	

Accessories

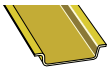

BADL

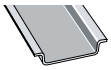

BAM2

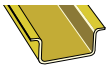

BAMH


BADH


PR30

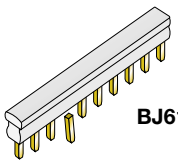

PR3.Z2

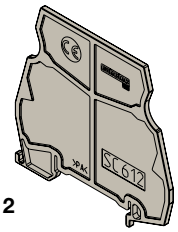

PR3.G2

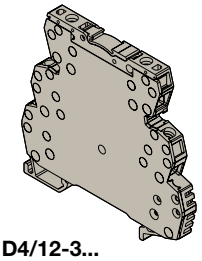

PR5


PR4


FC2


BJ612-...


SC612


D4/12-3...

End stops

The end stops are mounted at the extremity of the terminal board assembly, giving additional support to the terminal blocks as markers. For various types of marking, refer to the marker section.

Description		Type		Order P/N	Packaging	Weight kg
End stop DIN 3						
grey V0	□	BADL	9 mm	1SNA **399 903** R**02**00	50	
End stop with screws DIN 3						
grey V0	□	BAM2 V0	10 mm	1SNA **399 967** R**01**00	50	
grey V2	□	BAM2	10 mm	1SNA **206 351** R**16**00	50	
beige V0	□	BAM2 V0	10 mm	1SNA **296 351** R**00**00	50	
High end stop with screws DIN 1 and DIN 3 grey	□	BAMH	9,1 mm	1SNA **114 836** R**00**00	50	
beige V0	□	BAMH V0	9,1 mm	1SNA **194 836** R**01**00	50	
High end stop with screws DIN 3 grey	□	BADH	12 mm	1SNA **116 900** R**27**00	50	

Mounting rails

Symmetrical zinc bichromate plated steel prepunched rail	PR30	2 m	1SNA **173 220** R**05**00	1
Symmetrical zinc bichromate plated steel rail	PR3.Z2	2 m	1SNA **174 300** R**17**00	1
White, symmetrical passivated galvanized steel rail	PR3.G2	2 m	1SNA **164 800** R**03**00	1
Symmetrical zinc bichromate plated steel rail	PR5	2 m	1SNA **168 700** R**22**00	1
Symmetrical zinc bichromate plated steel rail	PR4	2 m	1SNA **168 500** R**12**00	1

Test devices

Test plug DIA. 2 mm	FC2	1SNA **007 865** R**26**00	10

Assembled jumper bar

This accessory permits electrical connection between 2 to 70 blocks with 6 mm spacing placed side by side. It can be used with screw clamp or spring clamp blocks with 6 mm or 12 mm spacing.
Interconnection of blocks not placed side by side is possible if teeth of the jumper bar have been cut in front of the blocks not to be connected. These teeth can be removed using pliers.
Use of separator end sections before and after the jumper bar is required to preserve IP20 protection of the assembly.

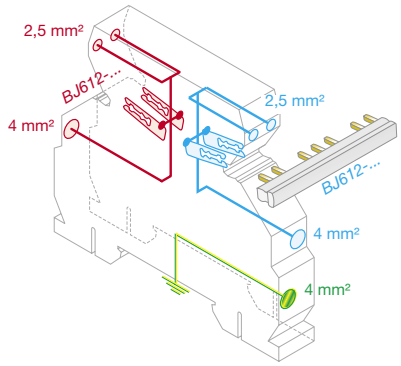
Assembled jumper bar 10 poles - 24 A	BJ612-10	1SNA **290 488** R**01**00	10
Assembled jumper bar 70 poles - 24 A	BJ612-70	1SNA **290 489** R**02**00	10

Separator end section

Directly mounted on the rail beside the block, it permits to identify and make electrical insulation of product groups using jumper bars. Dimensions are the same as screw clamp blocks : width 70 mm and height on rail 67,5 mm with 2 mm spacing.

Separator end section	SC612	1SNA **290 474** R**02**00	10

Distribution block



This terminal block with BJ612-... jumper bars permits 2 polarities distribution *(PCL side and process side)* thanks to two separate circuits, each of them including :

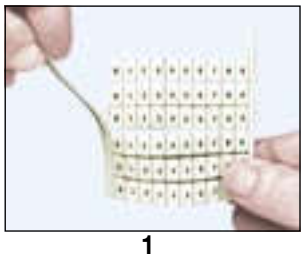
- one 4 mm² input,
- two 2,5 mm² outputs
- one double output for jumper bar BJ612-...

It permits also the connection of ground to the rail though a 4 mm² input.

Rated voltage : 250 VAC-DC
Rated current : 32 A (4 mm²) - 16 A (2,5 mm²)
Recommended torque : 0,4 - 0,6 Nm

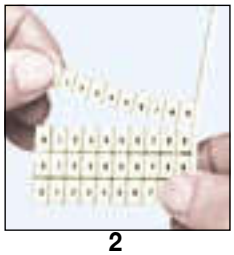
Screw clamp distribution block sp. 12 mm	D4/12-3A-3A	1SNA **645 031** R**20**00	5
Spring clamp distribution block sp. 12 mm	D4/12-3L-3L	1SNA **645 531** R**22**00	5

Marking



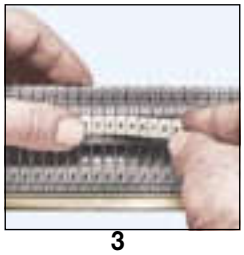
1

Remove one of the side bands of the



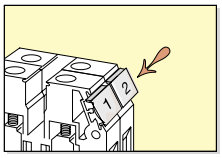
2

Separate the chosen strip from the rest of the card.

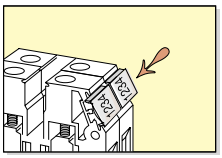


3

Press the first marker in place, hold it and slide your thomb on the rest of the strip.



Horizontal marking



Vertical marking



Refillable box of 100 cards of 18 RC markers

Marking for Interface Modules

Selection table

Markers for modules :	RC610	RC55	RC65
R500	⛔	🟢	⛔
R600	🟢	POSSIBLE	🟢
R900	⛔	🟢	⛔
R910	🟢	POSSIBLE	🟢
R1800	⛔	🟢	⛔

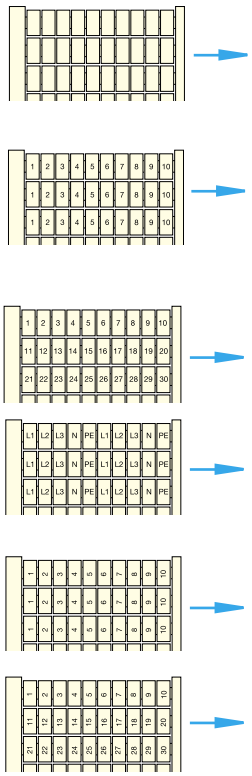
Possible mounting : POSSIBLE

Recommended mounting : 🟢

Impossible mounting : ⛔

Marking for for terminal blocks

Standard RC marker cards



Marker sizes	RC55 (x) = Nb of cards in 5 mm spacing kit	RC65 (x) = Nb of cards in 6 mm spacing kit	RC610 (x) = Nb of cards in 6 mm spacing kit
Blank cards	1SNA **230 000** R1200	1SNA **232 000** R0000	1SNA **233 000** R0100
Horizontal marking			
10 strips from 1 to 10	1SNA **230 002** R0000 **(5)**	1SNA **232 002** R2600 **(5)**	1SNA **233 002** R2700 **(25)**
10 strips from 11 to 20	1SNA **230 003** R0100 **(2)**	1SNA **232 003** R2700 **(2)**	1SNA **233 003** R2000 **(10)**
10 strips from 21 to 30	1SNA **230 004** R0200	1SNA **232 004** R2000	1SNA **233 004** R2100 **(6)**
10 strips from 31 to 40	1SNA **230 005** R0300	1SNA **232 005** R2100	1SNA **233 005** R2200 **(4)**
10 strips from 41 to 50	1SNA **230 006** R0400	1SNA **232 006** R2200	1SNA **233 006** R2300 **(3)**
10 strips from 51 to 60	1SNA **230 007** R0500	1SNA **232 007** R2300	1SNA **233 007** R2400 **(2)**
10 strips from 61 to 70	1SNA **230 008** R1600	1SNA **232 008** R0400	1SNA **233 008** R0500 **(2)**
From 1 to 100	1SNA **230 030** R0700 **(2)**	1SNA **232 030** R2500 **(2)**	1SNA **233 030** R2600 **(15)**
From 101 to 200	1SNA **230 031** R2400	1SNA **232 031** R1200	1SNA **233 031** R1300 **(2)**
20 times L1-L2-L3-N-PE	1SNA **230 131** R2500	1SNA **232 131** R1300	1SNA **233 131** R1400 **(2)**
Vertical marking			
10 strips from 1 to 10	1SNA **230 041** R0600	1SNA **232 041** R2400	1SNA **233 041** R2500 **(5)**
10 strips from 11 to 20	1SNA **230 042** R0700	1SNA **232 042** R2500	1SNA **233 042** R2600 **(3)**
10 strips from 21 to 30	1SNA **230 043** R0000	1SNA **232 043** R2600	1SNA **233 043** R2700 **(2)**
10 strips from 31 to 40	1SNA **230 044** R0100	1SNA **232 044** R2700	1SNA **233 044** R2000 **(2)**
From 1 to 100	1SNA **230 060** R1500	1SNA **232 060** R0300	1SNA **233 060** R0400 **(8)**

Marking kit RC 5 mm spacing or 6 mm spacing

Box with 100 cards with 18 various part numbers (see table next page)

Description	Type	Order P/N	Packaging	Weight kg
Box with 100 cards RC 5 mm spacing		1SNA **400 085** R2700	1	
Refill for box RC 5 mm		1SNA **400 145** R0700	1	
Box with 100 cards RC 6 mm spacing		1SNA **400 084** R2600	1	
Refill for box RC 6 mm		1SNA **400 144** R0600	1	

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ABB Entrelec
Export Department

10 rue Ampère Z.I. - B.P. 114
F - 69685 Chassieu cedex / France
Tel. : +33 (0) 4 7222 1722
Fax. : +33 (0) 4 7222 1935