Electromechanical relays
Zelio relay

Catalog

2015



Schneider Electric

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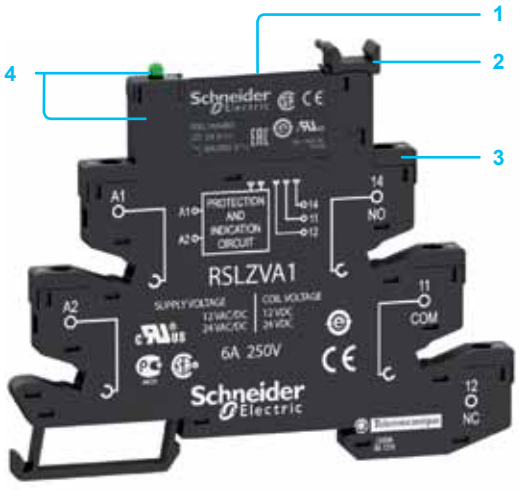
Presentation of the range

RSL slim interface relays offer the advantages of compact size and modular design. Their slim width (6 mm/*0.236 in.*) saves space when mounting on a DIN rail at the back of an enclosure.

RSL relays are available in two versions:
■ **Pre-assembled range**: a single reference comprising a standard relay mounted on its socket.
□ The socket includes a protection circuit (against reverse polarity and surge) and an LED indicator as standard.
□ Two types of connector are available for wire connection: screw connectors or spring terminals.
□ This pre-assembled solution covers a wide range of operating voltages from 12 to 230 V.
■ **Customer assembly range**:
□ The relay (standard or low level) and the socket are selected, as required, according to the operating voltage of the application.
□ For maintenance, an **RSL** slim relay can be replaced without disconnecting the socket wiring.

Relay description

RSL slim interface relays, pre-assembled



1 6 A standard relay with 1 C/O contact.
2 Lever for retaining or easy withdrawal of the relay from its socket.
3 Sockets: wire connection by screw connectors or spring terminals.
4 All sockets have a built-in protection circuit and LED indicator.

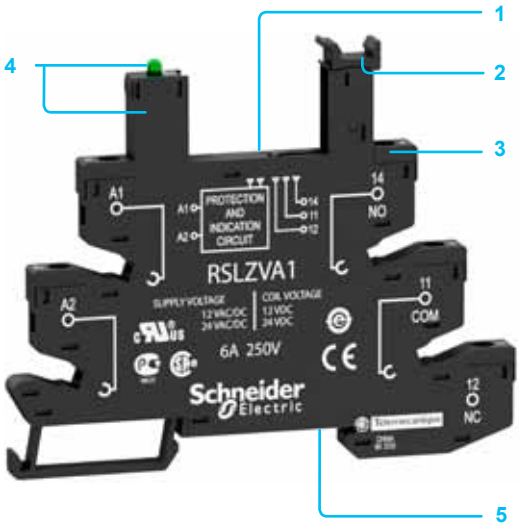
RSL slim interface relay



1 Five flat (PCB type), standard pins.

Socket description

Sockets for RSL slim interface relays



1 Five female contacts for the relay pins.
2 Retaining lever with marker label.
3 Wire connection by screw connectors or spring terminals.
4 Protection circuit and LED indicator are built into the socket.
5 Locating slot for mounting on DIN rail.

Zelio relay - Electromechanical relays

Plug-in relays

RSL slim interface relays

PF120937 PF120938



RSL1PVBU *RSL1PRPU*

Slim interface relays, pre-assembled (relay + socket)

Standard relays mounted on socket equipped with LED and protection circuit

1 C/O contact - Thermal current (Ith) 6A

Operating voltage	Control circuit voltage	Socket type			
		Screw connector		Spring terminal	
		Unit reference	Weight	Unit reference	Weight
V	V		kg/*lb*		kg/*lb*
⎓/∿ 12	⎓ 12	**RSL1PVJU** (RSL1AB4JD + RSLZVA1)	0.031/*0.068*	**RSL1PRJU** (RSL1AB4JD + RSLZRA1)	0.029/*0.064*
⎓/∿ 24	⎓ 24	**RSL1PVBU** (RSL1AB4BD + RSLZVA1)	0.031/*0.068*	**RSL1PRBU** (RSL1AB4BD + RSLZRA1)	0.029/*0.064*
⎓/∿ 48	⎓ 48	**RSL1PVEU** (RSL1AB4ED + RSLZVA2)	0.031/*0.068*	**RSL1PREU** (RSL1AB4ED + RSLZRA2)	0.029/*0.064*
⎓/∿ 110	⎓ 60	**RSL1PVFU** (RSL1AB4ND + RSLZVA3)	0.031/*0.068*	**RSL1PRFU** (RSL1AB4ND + RSLZRA3)	0.029/*0.064*
⎓/∿ 230	⎓ 60	**RSL1PVPU** (RSL1AB4ND + RSLZVA4)	0.031/*0.068*	**RSL1PRPU** (RSL1AB4ND + RSLZRA4)	0.029/*0.064*

PF120931



RSL1AB4ND

Slim interface relays for customer assembly: relay + socket

Relays with flat, standard pins (PCB type)

1 C/O contact - Thermal current (Ith) 6A

Control circuit voltage	Standard		Low level	
	Unit reference	Weight	Unit reference	Weight
V		kg/*lb*		kg/*lb*
⎓ 12	**RSL1AB4JD**	0.006/*0.013*	**RSL1GB4JD**	0.006/*0.013*
⎓ 24	**RSL1AB4BD**	0.006/*0.013*	**RSL1GB4BD**	0.006/*0.013*
⎓ 48	**RSL1AB4ED**	0.006/*0.013*	**RSL1GB4ED**	0.006/*0.013*
⎓ 60	**RSL1AB4ND**	0.006/*0.013*	**RSL1GB4ND**	0.006/*0.013*

PF090209 PF090210



RSLZVA● *RSLZRA●*

Sockets equipped with LED and protection circuit
Sold in lots of 10

Operating voltage	For use with relays	Socket type			
		Screw connector		Spring terminal	
		Unit reference	Weight	Unit reference	Weight
V			kg/*lb*		kg/*lb*
⎓/∿ 12 and ⎓/∿ 24	RSL1●B4JD RSL1●B4BD	**RSLZVA1**	0.025/*0.055*	**RSLZRA1**	0.023/*0.051*
⎓/∿ 48 and ⎓/∿ 60	RSL1●B4ED RSL1●B4ND	**RSLZVA2**	0.025/*0.055*	**RSLZRA2**	0.023/*0.051*
⎓/∿ 110	RSL1●B4ND	**RSLZVA3**	0.025/*0.055*	**RSLZRA3**	0.023/*0.051*
⎓/∿ 230	RSL1●B4ND	**RSLZVA4**	0.025/*0.055*	**RSLZRA4**	0.023/*0.051*

PF526466



RSLZ2

PF526467



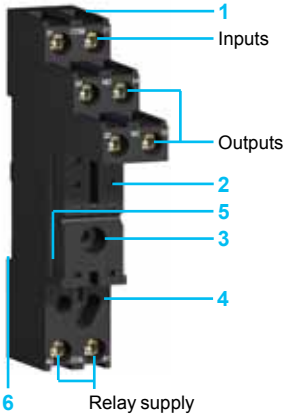
RSLZ3

Accessories for sockets

Description	Compatibility	Reference	Weight kg/*lb*
Clip-in legends (2 sheets of 64 legends)	With all sockets	**RSLZ5**	0.001/*0.002*
Bus jumper (10 x 20-pole jumper)	With all sockets	**RSLZ2**	0.003/*0.007*
Partition plate (10 partition plates)	With all sockets	**RSLZ3**	0.001/*0.002*

Zelio relay - Electromechanical relays
Plug-in relays
RSB interface relays





Presentation of the range

The RSB interface relay range comprises:

1 12 A relays with 1 C/O contact , 16 A relays with 1 C/O contact, and 8 A relays with 2 C/O contacts.
2 Sockets with separate contact terminals.
3 Protection modules (diode, diode + LED, RC circuit, or varistor + LED) common to all sockets.
4 A plastic maintaining clamp for all sockets.
5 Clip-in legends for the sockets.

Socket description

Sockets with separate contact terminals *(1)*

1 Connection by connector.
2 Five or eight female contacts for the relay pins.
3 A fixing hole for panel mounting.
4 Location for protection modules.
5 Locking components for plastic maintaining clamp.
6 Locating slot for mounting on DIN rail.

(1) The inputs and outputs are separated from the relay supply.

Zelio relay - Electromechanical relays
Plug-in relays
RSB interface relays

PF120900



RSB1A120JD + RZM031FPD + RSZE1S35M

Relays for standard applications

Control circuit voltage	Sold in lots of	Number and type of contacts - Thermal current (Ith) 1 C/O - 12 A Unit reference *(1)*	1 C/O - 16 A Unit reference *(1)*	2 C/O - 8 A Unit reference *(1)*	Weight
V					kg/*lb*
⎓ 6	10	**RSB1A120RD**	**RSB1A160RD**	**RSB2A080RD**	0.014/*0.031*
⎓ 12	10	**RSB1A120JD**	**RSB1A160JD**	**RSB2A080JD**	0.014/*0.031*
⎓ 24	10	**RSB1A120BD**	**RSB1A160BD**	**RSB2A080BD**	0.014/*0.031*
⎓ 48	10	**RSB1A120ED**	**RSB1A160ED**	**RSB2A080ED**	0.014/*0.031*
⎓ 60	10	**RSB1A120ND**	**RSB1A160ND**	**RSB2A080ND**	0.014/*0.031*
⎓ 110	10	**RSB1A120FD**	**RSB1A160FD**	**RSB2A080FD**	0.014/*0.031*

PF120903



RSB1A160BD + RSZE1S48M

∿ 24	10	**RSB1A120B7**	**RSB1A160B7**	**RSB2A080B7**	0.014/*0.031*
∿ 48	10	**RSB1A120E7**	**RSB1A160E7**	**RSB2A080E7**	0.014/*0.031*
∿ 120	10	**RSB1A120F7**	**RSB1A160F7**	**RSB2A080F7**	0.014/*0.031*
∿ 220	10	**RSB1A120M7**	**RSB1A160M7**	**RSB2A080M7**	0.014/*0.031*
∿ 230	10	**RSB1A120P7**	**RSB1A160P7**	**RSB2A080P7**	0.014/*0.031*
∿ 240	10	**RSB1A120U7**	**RSB1A160U7**	**RSB2A080U7**	0.014/*0.031*

Sockets with separate contact terminal arrangement and connector connection

Rated insulation voltage	Thermal current (Ith)	Relay type	Sold in lots of	Unit reference	Weight kg/*lb*
∿ 250 V	12 A	RSB1A120●●	10	**RSZE1S35M**	0.060/*0.132*
	10 A *(2)*	RSB1A160●● *(3)* RSB2A080●●	10	**RSZE1S48M**	0.050/*0.110*

PF120902



RSB2A080BD + RSZE1S48M

Protection modules

Description	For use with	Voltage	Sold in lots of	Unit reference	Weight
		V			kg/*lb*
Diode	All sockets	⎓ 6…230	10	**RZM040W**	0.003/*0.007*
RC circuit	All sockets	∿ 24…60	10	**RZM041BN7**	0.010/*0.022*
		∿ 110…240	10	**RZM041FU7**	0.010/*0.022*
Diode + green LED	All sockets	⎓ 6…24	10	**RZM031RB**	0.004/*0.009*
		⎓ 24…60	10	**RZM031BN**	0.004/*0.009*
		⎓ 110…230	10	**RZM031FPD**	0.004/*0.009*
Varistor + green LED	All sockets	⎓ or ∿ 6…24	10	**RZM021RB**	0.005/*0.011*
		⎓ or ∿ 24…60	10	**RZM021BN**	0.005/*0.011*
		⎓ or ∿ 110…230	10	**RZM021FP**	0.005/*0.011*

PF120904



RSZR215

Accessories

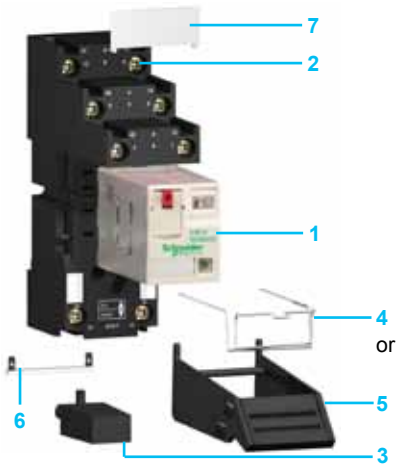
Description	For use with	Sold in lots of	Unit reference	Weight kg/*lb*
Plastic maintaining clamp	All sockets	10	**RSZR215**	0.002/*0.004*
Legend	All sockets	10	**RSZL300**	0.001/*0.002*

*(1) To order a relay complete with socket **(sold in lots of 20)**: add suffix **S** to one of the following voltage codes **JD**, **BD**, **B7**, **P7,** or **F7**. Example: **RSB2A080BD + RSZE1S48M** becomes **RSB2A080BDS**.*

(2) RSZE1S48M is a two terminal socket each carrying 10 A.

(3) If RSZE1S48M socket terminals are linked, the relay RSB1A160●● can be used up to 16 A. See "Wiring diagrams" on www.schneider-electric.com.

Zelio relay - Electromechanical relays
Plug-in relays
RXM miniature relays







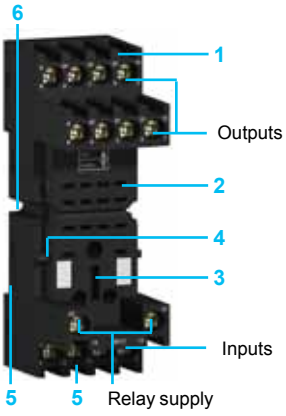
Presentation of the range

The RXM miniature relay range comprises:

1 12 A relays with 2 C/O contacts, 10 A relays with 3 C/O contacts, 6 A relays with 4 C/O contacts, and 3 A “low level” relays with 4 C/O contacts. All these relays have the same dimensions.
2 Sockets with mixed or separate contact terminals.
3 Protection modules (diode, RC circuit, or varistor) common to all sockets.
4 A metal maintaining clamp for all sockets.
5 A plastic maintaining clamp for all sockets.
6 A 2-pole bus jumper that can be used on sockets with separate contact terminals in order to simplify cabling when creating an equipotential link between the coil terminals.
7 Clip-in legends for all sockets except **RXZE2M114** and **RXZE2S114S**.

Relay description

1 Spring return pushbutton for testing the contacts (green: ⎓, red: ∿).
2 Mechanical “relay status” indicator.
3 Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes.
4 LED (depending on version) indicating the relay status.
5 Removable legend for relay identification.
6 Four notches for rail mounting adapter or panel mounting adapter with fixing lugs.
7 Eight, eleven, or fourteen Faston type pins.
8 Area by which the product can be easily gripped.
9 Mounting adapter enabling direct mounting of the relay on a panel.
10 Mounting adapter enabling direct mounting of the relay on a DIN rail.

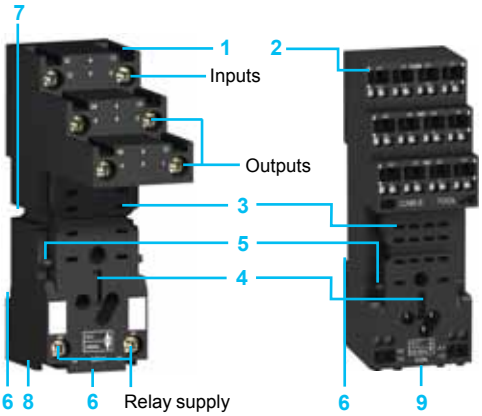


Sockets with mixed contact terminals

Socket description

Sockets with mixed contact terminals *(1)*

1 Connection by screw clamp terminals or screw connector.
2 Fourteen female contacts for the relay pins.
3 Location for protection modules.
4 Locking components for plastic and metal maintaining clamps.
5 Locating slot for mounting on DIN rail with its compression spring or fixing clip.
6 Two or four fixing holes for panel mounting.



Sockets with separate contact terminals

Sockets with separate contact terminals *(2)*

1 Connection by screw connector.
2 Connection by push-in spring clamp terminals. No tool ⊘ is required to insert the cable.
3 Eight, eleven or fourteen female contacts for the relay pins.
4 Location for protection modules.
5 Locking components for plastic and metal maintaining clamps.
6 Locating slot for mounting on DIN rail with its compression spring or fixing clip.
7 Two fixing holes for panel mounting.
8 Location for bus jumpers (see “Mounting on Sockets” section on www.schneider-electric.com).
9 Location for clip-in legend.

(1) The inputs are mixed with the relay's supply, with the outputs being located on the opposite side of the socket.
(2) The inputs and outputs are separated from the relay supply.

Zelio relay - Electromechanical relays
Plug-in relays
RXM miniature relays

PF120909



RXM4AB1BD

PF106011



RXM4AB1F7

PF120908



RXM4AB2BD

PF110439



RXM4AB2F7

Miniature relays without LED (sold in lots of 10)

Control circuit voltage	Number and type of contacts - Thermal current (Ith)					
	2 C/O - 12 A		3 C/O - 10 A		4 C/O - 6 A	
	Unit reference	Weight	Unit reference	Weight	Unit reference	Weight
V		kg/*lb*		kg/*lb*		kg/*lb*
⎓ 12	**RXM2AB1JD**	0.037/ *0.082*	**RXM3AB1JD**	0.037/ *0.082*	**RXM4AB1JD**	0.037/ *0.082*
⎓ 24	**RXM2AB1BD**	0.037/ *0.082*	**RXM3AB1BD**	0.037/ *0.082*	**RXM4AB1BD**	0.037/ *0.082*
⎓ 48	**RXM2AB1ED**	0.037/ *0.082*	**RXM3AB1ED**	0.037/ *0.082*	**RXM4AB1ED**	0.037/ *0.082*
⎓ 110	**RXM2AB1FD**	0.037/ *0.082*	**RXM3AB1FD**	0.037/ *0.082*	**RXM4AB1FD**	0.037/ *0.082*
⎓ 220	–	–	–	–	**RXM4AB1MD**	0.037/ *0.082*
∿ 24	**RXM2AB1B7**	0.037/ *0.082*	**RXM3AB1B7**	0.037/ *0.082*	**RXM4AB1B7**	0.037/ *0.082*
∿ 48	**RXM2AB1E7**	0.037/ *0.082*	**RXM3AB1E7**	0.037/ *0.082*	**RXM4AB1E7**	0.037/ *0.082*
∿ 120	**RXM2AB1F7**	0.037/ *0.082*	**RXM3AB1F7**	0.037/ *0.082*	**RXM4AB1F7**	0.037/ *0.082*
∿ 230	**RXM2AB1P7**	0.037/ *0.082*	**RXM3AB1P7**	0.037/ *0.082*	**RXM4AB1P7**	0.037/ *0.082*
∿ 240	–	–	–	–	**RXM4AB1U7**	0.037/ *0.082*

Miniature relays with LED (sold in lots of 10)

⎓ 12	**RXM2AB2JD**	0.037/ *0.082*	**RXM3AB2JD**	0.037/ *0.082*	**RXM4AB2JD**	0.037/ *0.082*
⎓ 24	**RXM2AB2BD**	0.037/ *0.082*	**RXM3AB2BD**	0.037/ *0.082*	**RXM4AB2BD**	0.037/ *0.082*
⎓ 48	**RXM2AB2ED**	0.037/ *0.082*	**RXM3AB2ED**	0.037/ *0.082*	**RXM4AB2ED**	0.037/ *0.082*
⎓ 110	**RXM2AB2FD**	0.037/ *0.082*	**RXM3AB2FD**	0.037/ *0.082*	**RXM4AB2FD**	0.037/ *0.082*
⎓ 125	–	–	–	–	**RXM4AB2GD**	0.037/ *0.082*
∿ 24	**RXM2AB2B7**	0.037/ *0.082*	**RXM3AB2B7**	0.037/ *0.082*	**RXM4AB2B7**	0.037/ *0.082*
∿ 48	**RXM2AB2E7**	0.037/ *0.082*	**RXM3AB2E7**	0.037/ *0.082*	**RXM4AB2E7**	0.037/ *0.082*
∿ 120	**RXM2AB2F7**	0.037/ *0.082*	**RXM3AB2F7**	0.037/ *0.082*	**RXM4AB2F7**	0.037/ *0.082*
∿ 230	**RXM2AB2P7**	0.037/ *0.082*	**RXM3AB2P7**	0.037/ *0.082*	**RXM4AB2P7**	0.037/ *0.082*

Zelio relay - Electromechanical relays
Plug-in relays
RXM miniature relays

PF120909



RXM4GB1BD

PF110440



RXM4GB1P7

PF120908



RXM4GB2BD

PF110441



RXM4GB2F7

Control circuit voltage	Number and type of contacts Thermal current (Ith) 4 C/O - 3 A	
	Unit reference	Weight
V		kg/*lb*
Miniature relays with low level contacts, without LED (sold in lots of 10)		
⎓ 12	**RXM4GB1JD**	0.037/*0.082*
⎓ 24	**RXM4GB1BD**	0.037/*0.082*
⎓ 48	**RXM4GB1ED**	0.037/*0.082*
⎓ 110	**RXM4GB1FD**	0.037/*0.082*
∿ 24	**RXM4GB1B7**	0.037/*0.082*
∿ 48	**RXM4GB1E7**	0.037/*0.082*
∿ 120	**RXM4GB1F7**	0.037/*0.082*
∿ 230	**RXM4GB1P7**	0.037/*0.082*
Miniature relays with low level contacts, with LED (sold in lots of 10)		
⎓ 12	**RXM4GB2JD**	0.037/*0.082*
⎓ 24	**RXM4GB2BD**	0.037/*0.082*
⎓ 48	**RXM4GB2ED**	0.037/*0.082*
⎓ 110	**RXM4GB2FD**	0.037/*0.082*
∿ 24	**RXM4GB2B7**	0.037/*0.082*
∿ 48	**RXM4GB2E7**	0.037/*0.082*
∿ 120	**RXM4GB2F7**	0.037/*0.082*
∿ 230	**RXM4GB2P7**	0.037/*0.082*
∿ 240	**RXM4GB2U7**	0.037/*0.082*

Zelio relay - Electromechanical relays
Plug-in relays
RXM miniature relays

PF106016



RXZE2M114M
+
Relay RXM4AB1F7

Sockets

Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference	Weight kg/*lb*
Mixed	Screw clamp terminals	RXM2●●●●● *(3)* RXM4●●●●●	10	**RXZE2M114** *(1)*	0.048/*0.106*
	Screw connector	RXM2●●●●● *(3)* RXM4●●●●●	10	**RXZE2M114M** *(1)*	0.056/*0.124*
Separate	Spring clamp terminals	RXM2●●●●● *(3)* RXM4●●●●●	10	**RXZE2S114S** *(2)*	0.070/*0.154*
	Screw connector	RXM2●●●●●	10	**RXZE2S108M** *(2)*	0.058/*0.128*
		RXM3●●●●●	10	**RXZE2S111M** *(1)*	0.066/*0.146*
		RXM4●●●●●	10	**RXZE2S114M** *(1)*	0.070/*0.154*

PF106018



RXM041●●7

Protection modules

Description	Voltage	For use with	Sold in lots of	Unit reference	Weight kg/*lb*
	V				
Diode	⎓ 6...250	All sockets	10	**RXM040W**	0.003/*0.007*
RC circuit	∿ 24...60	All sockets	10	**RXM041BN7**	0.010/*0.022*
	∿ 110...240	All sockets	10	**RXM041FU7**	0.010/*0.022*
Varistor	∿/⎓ 6...24	All sockets	10	**RXM021RB**	0.030/*0.066*
	∿/⎓ 24...60	All sockets	10	**RXM021BN**	0.030/*0.066*
	∿/⎓ 110...240	All sockets	10	**RXM021FP**	0.030/*0.066*

PF516252



REXL4●●

Timing relays

Description	For use with	Unit reference	Weight kg/*lb*
2 or 4 timed C/O contacts (function A)	Sockets RXZE●●●●●●	**REXL2●●** *(4)*	–
		REXL4●● *(4)*	–

Accessories

Description	For use with	Sold in lots of	Unit reference	Weight kg/*lb*
Metal maintaining clamp	All sockets	10	**RXZ400**	0.001/*0.002*
Plastic maintaining clamp	All sockets	10	**RXZR335**	0.005/*0.011*
Bus jumper 2-pole (Ith: 5 A)	All sockets with separate contacts	10	**RXZS2**	0.005/*0.011*
Mounting adapter for ⊔ rails *(5)*	All relays	10	**RXZE2DA**	0.004/*0.009*
Mounting adapter with fixing lugs for panel	All relays	10	**RXZE2FA**	0.002/*0.004*
Clip-in legends	All relays (sheet of 108 legends)	10	**RXZL520**	0.080/*0.176*
	All sockets except RXZE2M114 and RXZE2S114S	10	**RXZL420**	0.001/*0.002*
	RXZE2S114S socket	10	**RSZL300**	0.001/*0.002*

DF536484



RXZ400

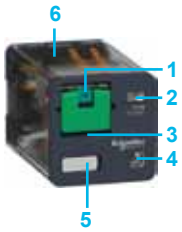
(1) Thermal current (Ith): 10 A.
(2) Thermal current (Ith): 12 A.
(3) When mounting relay RXM2●●●●● on socket RXZE2M●●●●, the thermal current should not exceed 10 A.
(4) Please refer to "Zelio Time timing relays" catalog.
(5) Test button becomes inaccessible.

Zelio relay - Electromechanical relays
Plug-in relays
RUM universal relays



Presentation of the range

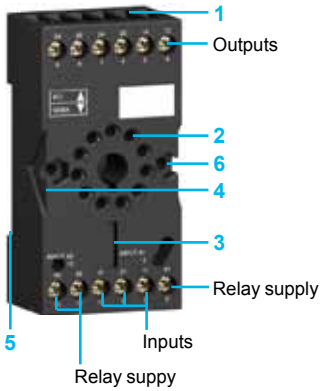
The RUM universal relay range comprises:
1. 10 A relays with 2 and 3 C/O contacts, with cylindrical or flat (Faston type) pins. All these relays have the same dimensions.
2. Sockets with mixed or separate contact terminals.
3. Protection modules (diode, RC circuit or varistor) or 1 timer module, common to all RUM sockets.
4. A metal maintaining clamp for all RUM sockets.
5. A 2-pole bus jumper that can be used on sockets with separate contact terminals in order to simplify cabling when creating an equipotential link between the coil terminals.
6. Clip-in legends for the sockets.



Relay description

1. Spring return pushbutton (depending on version) for testing the contacts (green: ⎓ red: ∿).
2. Mechanical “relay status” indicator.
3. Removable lock-down door (depending on version) enabling forced maintaining of the contacts for test sequences or maintenance purposes *(1)*.
4. LED (depending on version) indicating the relay status.
5. Removable legend for relay identification.
6. Area by which the product can be easily gripped.
7. Eight or eleven cylindrical pins.
8. Eight or eleven flat (Faston type) pins.

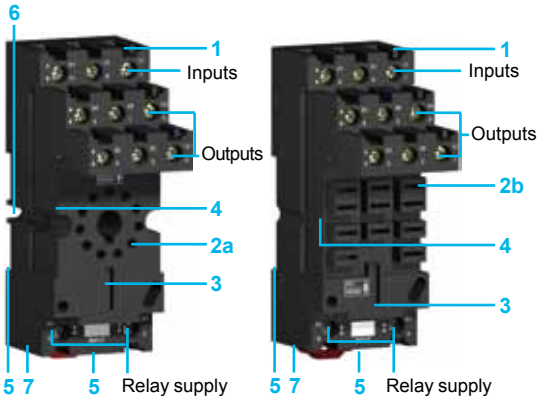




Socket description

Sockets with mixed contact terminals *(2)*

1. Connection by screw connector.
2. Eight or eleven female contacts for the relay cylindrical pins.
3. Location for protection modules or the timer module.
4. Locking component for metal maintaining clamp.
5. Locating slot for mounting on DIN rail.
6. Two fixing holes for panel mounting.



Sockets with separate contact terminals *(3)*

1. Connection by screw connector.
2. a Eight or eleven female contacts for the relay cylindrical pins.
   b Eleven female contacts for the relay flat pins.
3. Location for protection modules or the timer module.
4. Locking component for metal maintaining clamp.
5. Locating slot for mounting on DIN rail with fixing clip.
6. Two fixing holes for panel mounting.
7. Location for bus jumpers (see dimensions for mounting on sockets on www.schneider-electric.com).

(1) During operation, this lock-down door must always be in the closed position.
(2) The inputs are mixed with the relay’s supply, with the outputs being located on the opposite side of the socket.
(3) The inputs and outputs are separated from the relay supply.

Zelio relay - Electromechanical relays

Plug-in relays

RUM universal relays

PF140700C



RUMC21BD

PF140725B



RUMC21F7

PF140708C



RUMC32BD

PF140735



RUMF32F7

Universal relays with lockable test button, without LED

Control circuit voltage	Number and type of contacts - Thermal current (Ith) 2 C/O - 10 A		3 C/O - 10 A	
	Unit reference	Weight	Unit reference	Weight
V		kg/*lb*		kg/*lb*
With cylindrical pins (Sold in lots of 10)				
⎓ 12	**RUMC21JD**	0.086/*0.190*	**RUMC31JD**	0.086/*0.190*
⎓ 24	**RUMC21BD**	0.086/*0.190*	**RUMC31BD**	0.086/*0.190*
⎓ 48	**RUMC21ED**	0.086/*0.190*	**RUMC31ED**	0.086/*0.190*
⎓ 60	–	–	**RUMC31ND**	0.086/*0.190*
⎓ 110	**RUMC21FD**	0.086/*0.190*	**RUMC31FD**	0.086/*0.190*
⎓ 125	–	–	**RUMC31GD**	0.086/*0.190*
⎓ 220	–	–	**RUMC31MD**	0.086/*0.190*
∿ 24	**RUMC21B7**	0.086/*0.190*	**RUMC31B7**	0.086/*0.190*
∿ 48	**RUMC21E7**	0.086/*0.190*	**RUMC31E7**	0.086/*0.190*
∿ 120	**RUMC21F7**	0.086/*0.190*	**RUMC31F7**	0.086/*0.190*
∿ 230	**RUMC21P7**	0.086/*0.190*	**RUMC31P7**	0.086/*0.190*
With flat Faston type pins (Sold in lots of 10)				
⎓ 12	**RUMF21JD**	0.086/*0.190*	**RUMF31JD**	0.086/*0.190*
⎓ 24	**RUMF21BD**	0.086/*0.190*	**RUMF31BD**	0.086/*0.190*
⎓ 48	**RUMF21ED**	0.086/*0.190*	**RUMF31ED**	0.086/*0.190*
⎓ 110	**RUMF21FD**	0.086/*0.190*	**RUMF31FD**	0.086/*0.190*
∿ 24	**RUMF21B7**	0.086/*0.190*	**RUMF31B7**	0.086/*0.190*
∿ 48	**RUMF21E7**	0.086/*0.190*	**RUMF31E7**	0.086/*0.190*
∿ 120	**RUMF21F7**	0.086/*0.190*	**RUMF31F7**	0.086/*0.190*
∿ 230	**RUMF21P7**	0.086/*0.190*	**RUMF31P7**	0.086/*0.190*

Universal relays with lockable test button and LED

Control circuit voltage	Number and type of contacts - Thermal current (Ith) 2 C/O - 10 A		3 C/O - 10 A	
	Unit reference	Weight	Unit reference	Weight
V		kg/*lb*		kg/*lb*
With cylindrical pins (Sold in lots of 10)				
⎓ 12	**RUMC22JD**	0.086/*0.190*	**RUMC32JD**	0.086/*0.190*
⎓ 24	**RUMC22BD**	0.086/*0.190*	**RUMC32BD**	0.086/*0.190*
⎓ 48	**RUMC22ED**	0.086/*0.190*	**RUMC32ED**	0.086/*0.190*
⎓ 60	–	–	**RUMC32ND**	0.086/*0.190*
⎓ 110	**RUMC22FD**	0.086/*0.190*	**RUMC32FD**	0.086/*0.190*
⎓ 125	–	–	**RUMC32GD**	0.086/*0.190*
∿ 24	**RUMC22B7**	0.086/*0.190*	**RUMC32B7**	0.086/*0.190*
∿ 48	**RUMC22E7**	0.086/*0.190*	**RUMC32E7**	0.086/*0.190*
∿ 120	**RUMC22F7**	0.086/*0.190*	**RUMC32F7**	0.086/*0.190*
∿ 230	**RUMC22P7**	0.086/*0.190*	**RUMC32P7**	0.086/*0.190*
With flat Faston type pins (Sold in lots of 10)				
⎓ 12	**RUMF22JD**	0.086/*0.190*	**RUMF32JD**	0.086/*0.190*
⎓ 24	**RUMF22BD**	0.086/*0.190*	**RUMF32BD**	0.086/*0.190*
⎓ 48	**RUMF22ED**	0.086/*0.190*	**RUMF32ED**	0.086/*0.190*
⎓ 110	**RUMF22FD**	0.086/*0.190*	**RUMF32FD**	0.086/*0.190*
∿ 24	**RUMF22B7**	0.086/*0.190*	**RUMF32B7**	0.086/*0.190*
∿ 48	**RUMF22E7**	0.086/*0.190*	**RUMF32E7**	0.086/*0.190*
∿ 120	**RUMF22F7**	0.086/*0.190*	**RUMF32F7**	0.086/*0.190*
∿ 230	**RUMF22P7**	0.086/*0.190*	**RUMF32P7**	0.086/*0.190*

Zelio relay - Electromechanical relays

Plug-in relays

RUM universal relays

PF140726B



RUMC33F7

Universal relays without lockable test button, with LED

Control circuit voltage	Number and type of contacts - Thermal current (Ith) 2 C/O - 10 A		3 C/O - 10 A	
	Unit reference	Weight	Unit reference	Weight
V		kg/*lb*		kg/*lb*
With cylindrical pins (Sold in lots of 10)				
⎓ 12	**RUMC23JD**	0.086/*0.190*	**RUMC33JD**	0.086/*0.190*
⎓ 24	**RUMC23BD**	0.086/*0.190*	**RUMC33BD**	0.086/*0.190*
⎓ 48	**RUMC23ED**	0.086/*0.190*	**RUMC33ED**	0.086/*0.190*
⎓ 60	–	–	**RUMC33ND**	0.086/*0.190*
⎓ 110	**RUMC23FD**	0.086/*0.190*	**RUMC33FD**	0.086/*0.190*
⎓ 125	–	–	**RUMC33GD**	0.086/*0.190*
∿ 24	**RUMC23B7**	0.086/*0.190*	**RUMC33B7**	0.086/*0.190*
∿ 48	**RUMC23E7**	0.086/*0.190*	**RUMC33E7**	0.086/*0.190*
∿ 120	**RUMC23F7**	0.086/*0.190*	**RUMC33F7**	0.086/*0.190*
∿ 230	**RUMC23P7**	0.086/*0.190*	**RUMC33P7**	0.086/*0.190*
With flat Faston type pins (Sold in lots of 10)				
⎓ 12	**RUMF23JD**	0.086/*0.190*	**RUMF33JD**	0.086/*0.190*
⎓ 24	**RUMF23BD**	0.086/*0.190*	**RUMF33BD**	0.086/*0.190*
⎓ 48	**RUMF23ED**	0.086/*0.190*	**RUMF33ED**	0.086/*0.190*
⎓ 110	**RUMF23FD**	0.086/*0.190*	**RUMF33FD**	0.086/*0.190*
∿ 24	**RUMF23B7**	0.086/*0.190*	**RUMF33B7**	0.086/*0.190*
∿ 48	**RUMF23E7**	0.086/*0.190*	**RUMF33E7**	0.086/*0.190*
∿ 120	**RUMF23F7**	0.086/*0.190*	**RUMF33F7**	0.086/*0.190*
∿ 230	**RUMF23P7**	0.086/*0.190*	**RUMF33P7**	0.086/*0.190*

Zelio relay - Electromechanical relays

Plug-in relays

RUM universal relays

PF140724C



RUZSC3M
+
Relay RUMC32F7

PF106027



RUW241P7

PF516229



RUW101MW

DF536485



RUZC200

DF535203



RUZS2

Sockets

Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference	Weight kg/*lb*
Mixed	Screw connector	RUMC2●●●	10	**RUZC2M**	0.054/*0.119*
		RUMC3●●●	10	**RUZC3M**	0.054/*0.119*
Separate	Screw connector	RUMC2●●●	10	**RUZSC2M**	0.095/*0.209*
		RUMC3●●●	10	**RUZSC3M**	0.100/*0.220*
		RUMF2●●● RUMF3●●●	10	**RUZSF3M**	0.095/*0.209*

Protection modules

Description	Voltage	For use with	Sold in lots of	Unit reference	Weight
	V				kg/*lb*
Diode	⎓ 6…250	All RUM sockets	10	**RUW240BD**	0.004/*0.009*
RC circuit	∿ 110…240	All RUM sockets	10	**RUW241P7**	0.004/*0.009*
Varistor	∿/⎓ 24	All RUM sockets	10	**RUW242B7**	0.004/*0.009*
	∿/⎓ 240	All RUM sockets	10	**RUW242P7**	0.004/*0.009*

Timer module

Description	Voltage	For use with	Reference	Weight
	V			kg/*lb*
Multifunction	∿/⎓ 24… 240	All RUM sockets	**RUW101MW**	0.020/*0.044*

Timing relays

Description	For use with	Reference	Weight kg/*lb*
2 timed C/O contacts (single-function, dual function or multifunction)	On sockets RUZC●M	**RE48A●●** *(1)*	–

Accessories

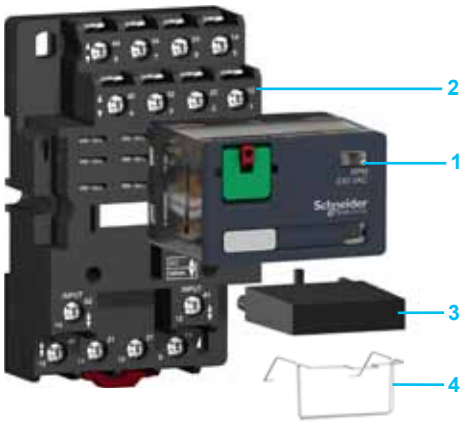
Description	For use with	Sold in lots of	Unit reference	Weight kg/*lb*
Metal maintaining clamp	All RUM sockets	10	**RUZC200**	0.001/*0.002*
Bus jumper 2-pole (Ith: 5 A)	All RUM sockets with separate contacts	10	**RUZS2**	0.005/*0.011*
Clip-in legends	All relays (sheet of 108 legends)	10	**RXZL520**	0.086/*0.190*
	All RUM sockets with separate contacts	10	**RUZL420**	0.001/*0.002*

(1) Please refer to "Zelio Time timing relays" catalogue.

Zelio Relay - Electromechanical Relays

Plug-in relays

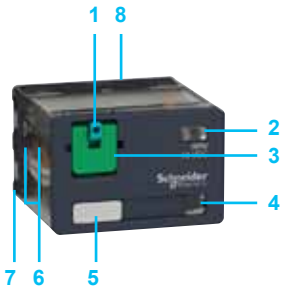
RPM power relays



Presentation of the range

The RPM power relay range comprises:

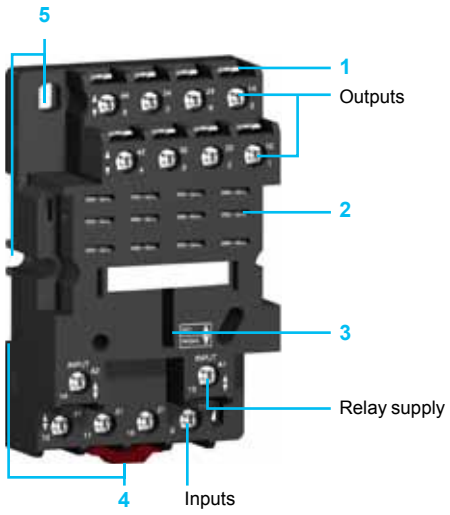
1 15 A relay with 1, 2, 3, and 4 C/O contacts.
2 Sockets with mixed contact terminals.
3 Protection modules (diode, RC circuit, or varistor) or 1 timer module. These protection modules are common to all sockets except for the timer module, which can be used only on 3-pole or 4-pole sockets.
4 A metal maintaining clamp for single-contact relays.



Relay description

1 Spring return pushbutton for testing the contacts (green: ⎓, red: ∿).
2 Mechanical “relay status” indicator.
3 Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes.
4 LED (depending on version) indicating the relay status.
5 Removable legend for relay identification.
6 Four notches for rail mounting adapter or panel mounting adapter with fixing lugs.
7 Five, eight, eleven, or fourteen Faston type pins.
8 Area by which the product can be easily gripped.
9 Mounting adapter enabling direct mounting of the relay on a panel.
10 Mounting adapter enabling direct mounting of the relay on a ⊔ rail.





Socket description

Sockets with mixed contact terminals *(1)*

1 Connection by screw clamp terminals.
2 Five, eight, eleven, or fourteen female contacts for the relay pins.
3 Location for protection modules or the timer module.
4 Locating slot for mounting on rail with fixing clip.
5 Two or four fixing holes for panel mounting.

(1) The inputs are mixed with the relay's supply, with the outputs being located on the opposite side of the socket.

Zelio Relay - Electromechanical Relays

Plug-in relays

RPM power relays

PF142819B



RPM41BD

PF142818B



RPM41P7

PF142821B



RPM42BD

PF142820B



RPM42P7

Reference

Power relays without LED (sold in lots of 10)

Control circuit voltage	Number and type of contacts - Thermal current (Ith)							
	1 C/O - 15 A		2 C/O - 15 A		3 C/O - 15 A		4 C/O - 15 A	
	Unit reference	Weight	Unit reference	Weight	Unit reference	Weight	Unit reference	Weight
V		kg/*lb*		kg/*lb*		kg/*lb*		kg/*lb*
⎓ 12	**RPM11JD**	0.026/*0.057*	**RPM21JD**	0.036/*0.079*	**RPM31JD**	0.054/*0.119*	**RPM41JD**	0.071/*0.157*
⎓ 24	**RPM11BD**	0.026/*0.057*	**RPM21BD**	0.036/*0.079*	**RPM31BD**	0.054/*0.119*	**RPM41BD**	0.071/*0.157*
⎓ 48	**RPM11ED**	0.026/*0.057*	**RPM21ED**	0.036/*0.079*	**RPM31ED**	0.054/*0.119*	**RPM41ED**	0.071/*0.157*
⎓ 110	**RPM11FD**	0.026/*0.057*	**RPM21FD**	0.036/*0.079*	**RPM31FD**	0.054/*0.119*	**RPM41FD**	0.071/*0.157*
∿ 24	**RPM11B7**	0.026/*0.057*	**RPM21B7**	0.036/*0.079*	**RPM31B7**	0.054/*0.119*	**RPM41B7**	0.071/*0.157*
∿ 48	**RPM11E7**	0.026/*0.057*	**RPM21E7**	0.036/*0.079*	**RPM31E7**	0.054/*0.119*	**RPM41E7**	0.071/*0.157*
∿ 120	**RPM11F7**	0.026/*0.057*	**RPM21F7**	0.036/*0.079*	**RPM31F7**	0.054/*0.119*	**RPM41F7**	0.071/*0.157*
∿ 230	**RPM11P7**	0.026/*0.057*	**RPM21P7**	0.036/*0.079*	**RPM31P7**	0.054/*0.119*	**RPM41P7**	0.071/*0.157*

Power relays with LED (sold in lots of 10)

⎓ 12	**RPM12JD**	0.026/*0.057*	**RPM22JD**	0.036/*0.079*	**RPM32JD**	0.054/*0.119*	**RPM42JD**	0.071/*0.157*
⎓ 24	**RPM12BD**	0.026/*0.057*	**RPM22BD**	0.036/*0.079*	**RPM32BD**	0.054/*0.119*	**RPM42BD**	0.071/*0.157*
⎓ 48	**RPM12ED**	0.026/*0.057*	**RPM22ED**	0.036/*0.079*	**RPM32ED**	0.054/*0.119*	**RPM42ED**	0.071/*0.157*
⎓ 110	**RPM12FD**	0.026/*0.057*	**RPM22FD**	0.036/*0.079*	**RPM32FD**	0.054/*0.119*	**RPM42FD**	0.071/*0.157*
∿ 24	**RPM12B7**	0.026/*0.057*	**RPM22B7**	0.036/*0.079*	**RPM32B7**	0.054/*0.119*	**RPM42B7**	0.071/*0.157*
∿ 48	**RPM12E7**	0.026/*0.057*	**RPM22E7**	0.036/*0.079*	**RPM32E7**	0.054/*0.119*	**RPM42E7**	0.071/*0.157*
∿ 120	**RPM12F7**	0.026/*0.057*	**RPM22F7**	0.036/*0.079*	**RPM32F7**	0.054/*0.119*	**RPM42F7**	0.071/*0.157*
∿ 230	**RPM12P7**	0.026/*0.057*	**RPM22P7**	0.036/*0.079*	**RPM32P7**	0.054/*0.119*	**RPM42P7**	0.071/*0.157*

PF142831B



RPZF4 + Relay RPM42P7

PF106044



RUW24●●●

References (continued)

Sockets

Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference	Weight kg/*lb*
Mixed	Screw clamp terminals	RPM1●●●	10	**RPZF1**	0.042/*0.093*
		RPM2●●●	10	**RPZF2**	0.054/*0.119*
		RPM3●●●	10	**RPZF3**	0.072/*0.159*
		RPM4●●●	10	**RPZF4**	0.094/*0.207*

Protection modules

Description	Voltage	Socket type	Sold in lots of	Unit reference	Weight
	V				**kg/*lb***
Diode	⎓ 6...250	RPZF1RPZF2	20	**RXM040W**	0.003/*0.007*
		RPZF3 RPZF4	10	**RUW240BD**	0.004/*0.009*
RC circuit	∿ 24...60	RPZF1RPZF2	20	**RXM041BN7**	0.010/*0.022*
	∿ 110...240	RPZF1RPZF2	20	**RXM041FU7**	0.010/*0.022*
		RPZF3 RPZF4	10	**RUW241P7**	0.004/*0.009*
Varistor	∿/⎓ 6...24	RPZF1RPZF2	20	**RXM021RB**	0.030/*0.066*
	∿/⎓ 24...60	RPZF1RPZF2	20	**RXM021BN**	0.030/*0.066*
	∿/⎓ 110...240	RPZF1RPZF2	20	**RXM021FP**	0.030/*0.066*
	∿/⎓ 24	RPZF3 RPZF4	10	**RUW242B7**	0.004/*0.009*
	∿/⎓ 240	RPZF3 RPZF4	10	**RUW242P7**	0.004/*0.009*

Timer module *(1)*

Description	Voltage	Socket type	Reference	Weight
	V			**kg/*lb***
Multifunction	∿/⎓ 24… 240	RPZF3 RPZF4	**RUW101MW**	0.020/*0.044*

(1) See timer module description (selection of functions and time delays) on www.schneider-electric.com.

PF106045



RPZ1DA

PF106046



RPZ4FA

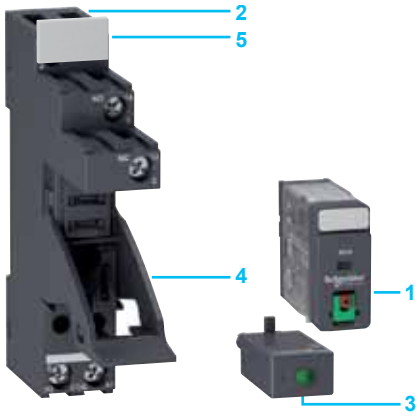
References (continued)

Accessories

Description	For use with	Sold in lots of	Unit reference	Weight kg/*lb*
Metal maintaining clamp (for single-pole relays)	RPZF1	20	**RPZR235**	0.001/*0.002*
Mounting adapters for ⊔ rail *(1)*	RPM1●●●	20	**RPZ1DA**	0.004/*0.009*
	RPM2●●●	20	**RXZE2DA**	0.004/*0.009*
	RPM3●●●	20	**RPZ3DA**	0.004/*0.009*
	RPM4●●●	20	**RPZ4DA**	0.006/*0.013*
Mounting adapters with fixing lugs for panel	RPM1●●●	20	**RPZ1FA**	0.002/*0.004*
	RPM2●●●	20	**RXZE2FA**	0.002/*0.004*
	RPM3●●●	20	**RPZ3FA**	0.003/*0.007*
	RPM4●●●	20	**RPZ4FA**	0.004/*0.009*
Clip-in legends (sheet of 108 legends)	All relays	10	**RXZL520**	0.080/*0.176*
Clip-in legends (sheet of 16 legends)	All relays	10	**RGZL520**	0.080/*0.176*

(1) Test button becomes inaccessible.

Zelio relay - Electromechanical relays
Plug-in relays
RXG interface relays



Presentation of the range

The RXG interface relay range comprises:

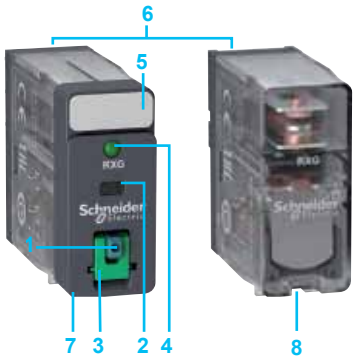
1 10 A relays with 1 C/O contact and 5 A relays with 2 C/O contacts.

2 Sockets with separate contact terminals and screw connector connection.

3 Protection modules (diode, diode + LED, RC circuit, or varistor + LED) common to all RXG sockets.

4 A plastic maintaining clamp for all RXG sockets.

5 Clip-in legends for all RXG sockets.



Relay description

1 Spring return pushbutton for testing the contacts (green: ⎓, red: ∿).

2 Mechanical “relay status” indicator.

3 Removable lock-down door enabling forced maintaining of the contacts for test sequences or maintenance purposes.

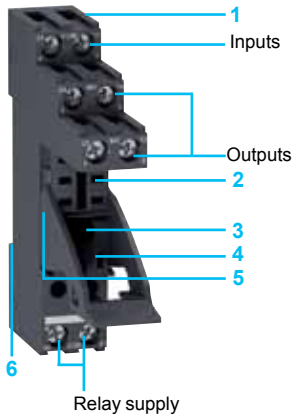
4 LED (depending on version) indicating the relay status.

5 Removable legend for relay identification.

6 Five or eight Faston type pins.

7 Standard cover type relay with options of push button, mechanical indicator and LED.

8 Clear cover type relay.



Socket description

Sockets with separate contact terminals *(1)*

1 Connection by connector.

2 Five or eight female contacts for the relay pins.

3 A fixing hole for panel mounting.

4 Location for protection modules.

5 Locking components for plastic maintaining clamp.

6 Locating slot for mounting on DIN rail.

(1) The inputs and outputs are separated from the relay supply.

Zelio relay - Electromechanical relays
Plug-in relays
RXG interface relays

PF132501



RXG11RD

Standard cover relays with lockable test button				
Control circuit voltage	**Sold in lots of**	**Number and type of contacts - Thermal current (Ith)**		
		1 C/O - 10 A	**2 C/O - 5 A**	
		Unit reference	**Unit reference**	**Weight**
V				**kg/*lb***
⎓ 6	10	**RXG11RD**	**RXG21RD**	0.020/*0.044*
⎓ 12	10	**RXG11JD**	**RXG21JD**	0.020/*0.044*
⎓ 24	10	**RXG11BD**	**RXG21BD**	0.020/*0.044*
⎓ 48	10	**RXG11ED**	**RXG21ED**	0.020/*0.044*
⎓ 60	10	**RXG11ND**	**RXG21ND**	0.020/*0.044*
⎓ 110	10	**RXG11FD**	**RXG21FD**	0.020/*0.044*
∿ 24	10	**RXG11B7**	**RXG21B7**	0.020/*0.044*
∿ 48	10	**RXG11E7**	**RXG21E7**	0.020/*0.044*
∿ 120	10	**RXG11F7**	**RXG21F7**	0.020/*0.044*
∿ 220	10	**RXG11M7**	**RXG21M7**	0.020/*0.044*
∿ 230	10	**RXG11P7**	**RXG21P7**	0.020/*0.044*

PF132510



RXG22B7

Standard cover relays with lockable test button and LED				
⎓ 6	10	**RXG12RD**	**RXG22RD**	0.020/*0.044*
⎓ 12	10	**RXG12JD**	**RXG22JD**	0.020/*0.044*
⎓ 24	10	**RXG12BD**	**RXG22BD**	0.020/*0.044*
⎓ 48	10	**RXG12ED**	**RXG22ED**	0.020/*0.044*
⎓ 60	10	**RXG12ND**	**RXG22ND**	0.020/*0.044*
⎓ 110	10	**RXG12FD**	**RXG22FD**	0.020/*0.044*
∿ 24	10	**RXG12B7**	**RXG22B7**	0.020/*0.044*
∿ 48	10	**RXG12E7**	**RXG22E7**	0.020/*0.044*
∿ 120	10	**RXG12F7**	**RXG22F7**	0.020/*0.044*
∿ 220	10	**RXG12M7**	**RXG22M7**	0.020/*0.044*
∿ 230	10	**RXG12P7**	**RXG22P7**	0.020/*0.044*

Zelio relay - Electromechanical relays
Plug-in relays
RXG interface relays

PF132505



RXG13RD

Standard cover relays with LED				
Control circuit voltage	Sold in lots of	Number and type of contacts - Thermal current (Ith)		
		1 C/O - 10 A	2 C/O - 5 A	
		Unit reference	Unit reference	Weight
V				kg/*lb*
⎓ 6	10	**RXG13RD**	**RXG23RD**	0.020/*0.044*
⎓ 12	10	**RXG13JD**	**RXG23JD**	0.020/*0.044*
⎓ 24	10	**RXG13BD**	**RXG23BD**	0.020/*0.044*
⎓ 48	10	**RXG13ED**	**RXG23ED**	0.020/*0.044*
⎓ 60	10	**RXG13ND**	**RXG23ND**	0.020/*0.044*
⎓ 110	10	**RXG13FD**	**RXG23FD**	0.020/*0.044*
∿ 24	10	**RXG13B7**	**RXG23B7**	0.020/*0.044*
∿ 48	10	**RXG13E7**	**RXG23E7**	0.020/*0.044*
∿ 120	10	**RXG13F7**	**RXG23F7**	0.020/*0.044*
∿ 220	10	**RXG13M7**	**RXG23M7**	0.020/*0.044*
∿ 230	10	**RXG13P7**	**RXG23P7**	0.020/*0.044*

PF132507



RXG15RD

Clear cover relays				
⎓ 6	10	**RXG15RD**	**RXG25RD**	*0.019/0.042*
⎓ 12	10	**RXG15JD**	**RXG25JD**	*0.019/0.042*
⎓ 24	10	**RXG15BD**	**RXG25BD**	*0.019/0.042*
⎓ 48	10	**RXG15ED**	**RXG25ED**	*0.019/0.042*
⎓ 60	10	**RXG15ND**	**RXG25ND**	*0.019/0.042*
⎓ 110	10	**RXG15FD**	**RXG25FD**	*0.019/0.042*
∿ 24	10	**RXG15B7**	**RXG25B7**	*0.018/0.040*
∿ 48	10	**RXG15E7**	**RXG25E7**	*0.018/0.040*
∿ 120	10	**RXG15F7**	**RXG25F7**	*0.018/0.040*
∿ 220	10	**RXG15M7**	**RXG25M7**	*0.018/0.040*
∿ 230	10	**RXG15P7**	**RXG25P7**	*0.018/0.040*

Zelio relay - Electromechanical relays
Plug-in relays
RXG interface relays

PF132517



RGZE1S48M

PF132522



RZM031RB

PF132519



RSZL300

Sockets with separate contact terminal arrangement and connector connection

Description	Thermal current (Ith)	Relay type	Sold in lots of	Unit reference	Weight kg/*lb*
1 C/O socket with 1 pole	10 A	**RXG1●●●**	10	**RGZE1S35M**	0.034/*0.075*
2 C/O socket with 2 poles	5 A	**RXG2●●●**	10	**RGZE1S48M**	0.042/*0.093*

Protection modules

Description	For use with	Voltage	Sold in lots of	Unit reference	Weight
		V			kg/*lb*
Diode	All sockets	⎓ 6…230	10	**RZM040W**	0.003/*0.007*
RC circuit	All sockets	∿ 24…60	10	**RZM041BN7**	0.010/*0.022*
		∿ 110…240	10	**RZM041FU7**	0.010/*0.022*
Diode + green LED	All sockets	⎓ 6…24	10	**RZM031RB**	0.004/*0.009*
		⎓ 24…60	10	**RZM031BN**	0.004/*0.009*
		⎓ 110…230	10	**RZM031FPD**	0.004/*0.009*
Varistor + green LED	All sockets	⎓ or ∿ 6…24	10	**RZM021RB**	0.005/*0.011*
		⎓ or ∿ 24…60	10	**RZM021BN**	0.005/*0.011*
		⎓ or ∿ 110…230	10	**RZM021FP**	0.005/*0.011*

Accessories

Description	For use with	Sold in lots of	Unit reference	Weight kg/*lb*
Plastic maintaining clamp	All sockets	10	**RGZR215**	0.002/*0.004*
Legend	All sockets	10	**RSZL300**	0.001/*0.002*
Legend	All relays	10	**RGZL520**	0.001/*0.002*

Zelio relay - Electromechanical relays
Relays with clamp fixing
RPF power relays



Presentation of the range

RPF power relays with 2 C/O or 2 N/O contacts comprise:

1 Four or six Faston type pins.
2 Two relay supply pins.
3 A locating slot for mounting on DIN rail.
4 Two fixing holes for panel mounting.

Zelio relay - Electromechanical relays

Relays with clamp fixing

RPF power relays

PF120361C



RPF2A●●

Power relays (sold in lots of 10)			
Control circuit voltage	Number and type of contacts - Thermal current (Ith)		
	2 N/O - 30 A *(1)*	2 C/O - 30 A *(1)*	
	Unit reference	Unit reference	Weight
V			kg/*lb*
⎓ 12	**RPF2AJD**	**RPF2BJD**	0.082/ *0.181*
⎓ 24	**RPF2ABD**	**RPF2BBD**	0.082/ *0.181*
∿ 24	**RPF2AB7**	**RPF2BB7**	0.082/ *0.181*
∿ 120	**RPF2AF7**	**RPF2BF7**	0.082/ *0.181*
∿ 230	**RPF2AP7**	**RPF2BP7**	0.082/ *0.181*

(1) 30 A when mounted with 13 mm gap between two relays and 25 A when mounted side by side without a gap.

Zelio relay - Electromechanical relays
Plug-in relays

Relays

Contact types

Symbol	Configuration	EU	USA
	Make contact (Normally Open)	N/O	SPST-NO DPST-NO nPST-NO *(1)*
	Break contact (Normally Closed)	N/C	SPST-NC DPST-NC nPST-NC *(1)*
	Changeover Contact	C/O	SPDT DPDT nPDT *(1)*

Utilization categories

Category	Type of current	Applications
AC-1	∿ single-phase ∿ 3-phase	Resistive or slightly inductive loads.
AC-3	∿ 3-phase	Starting and braking of squirrel cage motors; reversing direction of rotation only after stopping of motor.
AC-4	∿ 3-phase	Starting of squirrel cage motors, inching. Plugging, reversing direction of rotation.
DC-1	⎓	Resistive or slightly inductive loads *(2)*.
AC-14	∿ single-phase	Control of electromagnetic loads (< 72 VA), auxiliary control relays, power contactors, electromagnetic solenoid valves, and electromagnets.
AC-15	∿ single-phase	Control of electromagnetic loads (> 72 VA), auxiliary control relays, power contactors, electromagnetic solenoid valves, and electromagnets.
DC-13	⎓	Control of electromagnetic loads, auxiliary control relays, power contactors, magnetic solenoid valves, and electromagnets.

Protection categories

Category	Explanation	Condition
RT 0	Unenclosed relay	Relay not provided with a protective case.
RT I	Dust protected relay	Relay provided with a case which helps protecting its mechanism from dust.
RT II	Flux-proof relay	Relay capable of being automatically soldered without allowing the migration of solder fluxes beyond the intended areas.
RT III	Wash-tight relay	Relay capable of being automatically soldered and then washed to remove flux residues minimizing the possibility of ingress of flux or washing solvents.
RT IV	Sealed relay	Relay provided with a case which has no venting to the outside atmosphere.
RT V	Hermetically sealed relay	Sealed relay having an enhanced level of sealing.

(1) n = number of contacts.
(2) The switchable voltage can be doubled, for an equal current, by connecting two contacts in series.

Protection modules

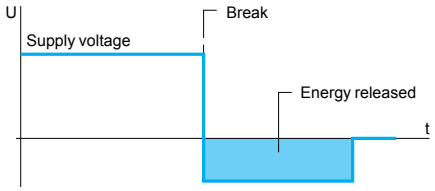
Whenever an inductive load is de-energised (coil of a relay or of a contactor), an overvoltage appears at its terminals. This voltage peak can reach several thousand volts and a frequency of several MHz.
It is likely to disturb the operation of automation systems which contain electronic devices.
Protection modules are used to reduce the voltage peak on de-energisation and therefore limit the energy of interference signals to a level that will not disturb surrounding coils and electronic devices.

These modules are used to avoid:
- electromagnetic compatibility problems,
- the deterioration of contact materials,
- the destruction of insulation due to overvoltage,
- the destruction of electronic components.

Diode protection module (with or without LED)

■ Advantages
- accumulation of energy allowing current flow in the same direction,
- absence of any voltage peaks at the coil terminals,
- low cost.

■ Disadvantages
- increase in relay drop-out time (3 to 4 times the usual time),
- no polarity protection,
- de-energisation of the relay.

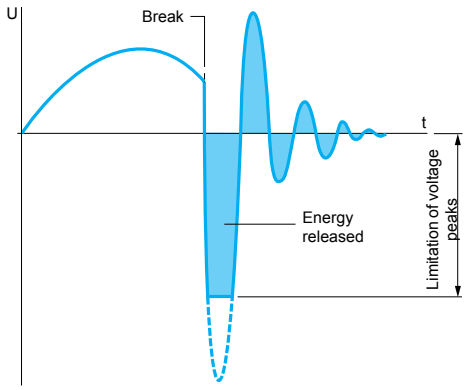


Coil voltage with diode protection module (⎓ only)

Protection module with varistor

■ Advantages
- can be used with ∿ and ⎓ supply,
- voltage peak limited to about 2 Un,
- little effect on relay drop-out time.

■ Disadvantages
- no modification of coil's own oscillating frequency,
- limitation of switching frequency.

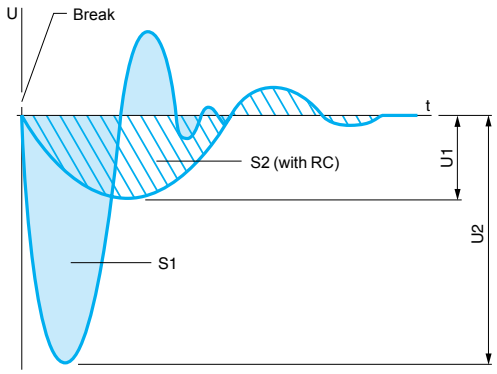


Coil voltage with varistor protection module (∿ and ⎓)

Protection module with RC circuit

■ Advantages
- coil oscillating frequency reduced to about 150 Hz,
- voltage peak limited to 3 Un,
- little effect on relay drop-out time.

■ Disadvantages
- no protection for low voltages.



Coil voltage with RC circuit protection module (∿ only)

S1 = S2 = Energy released

Contents

Zelio interfaces

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Electromechanical interface modules

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■ **References**

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Slim electromechanical interface modules

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Slim solid-state interface modules

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■ **References**

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□ Solid-state output modules ..... *page 37*

□ Accessories ..... *page 37*

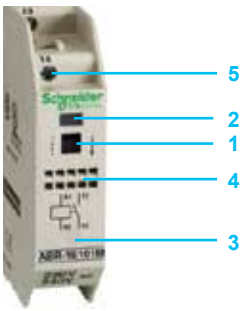
Zelio interfaces
Electromechanical and solid state interface modules for discrete signals

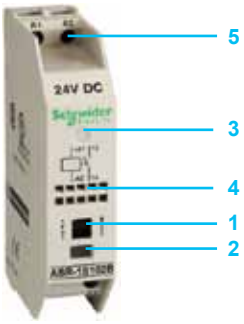
Applications	Electromechanical interface modules	
		
Functions	Input	
Width	17.5 mm/*0.69 in.*	9.5 mm/*0.37 in.*
Contact arrangement	1 N/O 2 N/O 1 C/O	1 N/O
Thermal current	–	
Control voltages	⎓ 110…127 V ⎓ 24 V, 48 V ∿ 115…127 V ∿ 230/240 V	⎓ 24 V, 48 V ∿ 115…127/50 Hz ∿ 115…127/60 Hz ∿ 230…240/50-60 Hz
Indication	Mechanical for contacts and/or LED for control	LED for control
References	**ABR1E●●●●**	**ABR2E●●●●**
Pages	33	35

			Solid state interface modules	
				
Output		Input and output Very low level switching	Input	Output
17.5 mm/*0.69 in.*	12 mm/*0.47 in.*	17.5 mm/*0.69 in.*	9.5 mm/*0.37 in.*	(9.5 mm/*0.37 in.)* or (17.5 mm/*0.69 in.)*
1 N/O 2 N/O 1 C/O 1 N/C + 1 N/O	1 N/O	1 C/O	–	
12 A	5 A	–		5 A
⎓ 24 V ⎓ 24 V, 48 V ∿ 115…127 V ∿ 110 V	⎓ 24 V		⎓ 5, 24, 48 V ∿ 115…127/50 Hz ∿ 120…127/60 Hz ∿ 230…240/50 Hz ∿ 230…240/60 Hz	⎓ 24 V
Mechanical for contacts and/or LED for control	LED for control			
ABR1S●●●●	**ABR2S●●●●**	**ABR2●B312B**	**ABS2E●●●●●**	**ABS2S●●●●●**
33	33	35	37	

Zelio interfaces
Electromechanical interface modules for discrete signals

ABR-1 electromechanical interface modules are supplied in the form of compact modules, 17.5 mm/*0.689 in.* wide.
They are designed for interfacing discrete digital control signals exchanged within an automated system between the processing unit (PLC, numerical controller, etc) and the other components (contactors, solenoid valves, indicator lamps, proximity sensors, etc).
These products are based on contactor technology and are notable for their excellent adaptation to industrial environments, conforming to the recent IEC 947-5-1 standards.





Composition

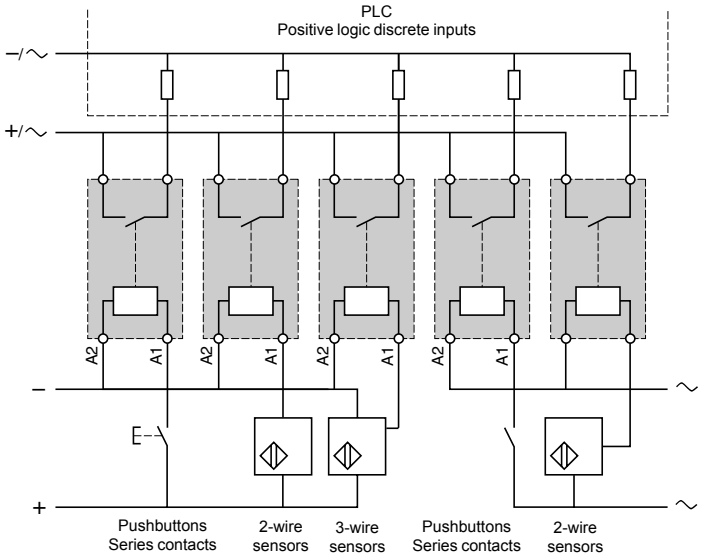
The ABR-1 range comprises 2 families :

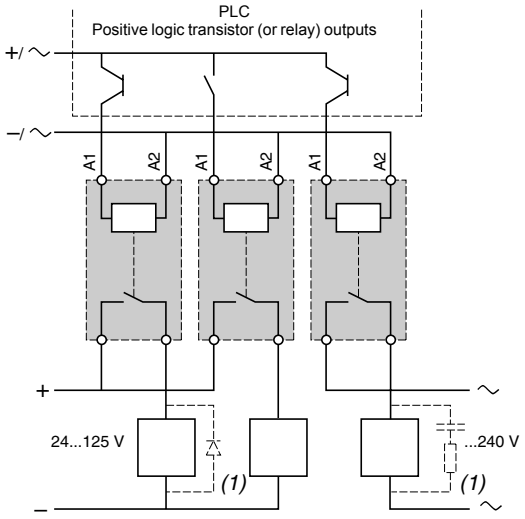
Input interfaces
Input interfaces switch input signals to the processor and are characterized by their high degree of contact reliability : less than 1 fault per 100 million operating cycles at ⎓ 17 V, 5 mA.
The interfaces can directly control most contactors and indicator lamps because of the high switching level characteristics.

Output interfaces
Output interfaces control the preactuators (contactors, solenoid valves, etc) for signalling devices (indicators lamps, audible alerts, etc). They are characterized by a high switching capacity with an average durability of up to 5 times greater than the traditional interface modules which include standard relays.

1 Override contacts by pressing button (not holding it down) for a simple and quick test during setting up or maintenance operations on the installation
2 Green indicator showing the mechanical position of the contacts
3 LED indicating the control signal state
4 Channel identification : 5 individual characters for AB1-R/G or one AB1-SA2 marker tag
5 Connection by screw clamp terminal enabling easy attachment of 2 wires per terminal. The layout of the connection terminals for both families (input and output) is designed for rational wiring and a clear separation between the incoming (processing) and outgoing (power and process control) circuits.

Examples of applications with PLCs





(1) Required for inductive loads (can be replaced with peak limiter -⏢-).

Zelio interfaces

Electromechanical interface modules for discrete signals

Control circuit : AC or DC

PF43076



ABR1E101M

PF43119



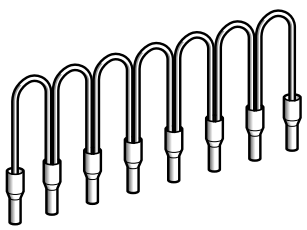
ABR1E318B

PF121506



ABR1S102B

816273



ABFC08R●●●

Input interface modules *(1)* **(17.5 mm/*0.689 in.* pitch)**

Display	Composition	Control circuit	Enclosure color	Reference	Weight
		V			kg/*lb*
Mechanical *(2)*	1 N/O	∼ 230/240	Gray	**ABR1E101M**	0.090/*0.198*
	1 C/O	∼ 230/240	Gray	**ABR1E301M**	0.090/*0.198*
Mechanical *(2)* **+ LED** *(3)*	1 N/O	≂ 24	Gray	**ABR1E118B**	0.095/*0.209*
		≂ 48	Gray	**ABR1E118E**	0.095/*0.209*
		⎓ 110...127 *(4)*	Gray	**ABR1E112F**	0.095/*0.209*
		∼ 115...127	Gray	**ABR1E111F**	0.095/*0.209*
		∼ 230/240	Gray	**ABR1E111M**	0.095/*0.209*
	2 N/O	≂ 24	Gray	**ABR1E418B**	0.095/*0.209*
		≂ 48	Gray	**ABR1E418E**	0.095/*0.209*
		⎓ 110...127*(4)*	Gray	**ABR1E412F**	0.095/*0.209*
		∼ 115...127	Gray	**ABR1E411F**	0.095/*0.209*
		∼ 230/240	Gray	**ABR1E411M**	0.095/*0.209*
	1 C/O	≂ 24	Gray	**ABR1E318B**	0.095/*0.209*
		≂ 48	Gray	**ABR1E318E**	0.095/*0.209*
		⎓ 110...127*(4)*	Gray	**ABR1E312F**	0.095/*0.209*
		∼ 115...127	Gray	**ABR1E311F**	0.095/*0.209*
		∼ 230/240	Gray	**ABR1E311M**	0.095/*0.209*

Output terminals-relays *(1)* **(17.5 mm/*0.689 in.* pitch)**

Display	Composition	Control circuit	Enclosure color	Reference	Weight
		V			kg/*lb*
Mechanical *(2)*	1 N/O	⎓ 24	Gray	**ABR1S102B**	0.090/*0.198*
	2 N/O	⎓ 24	Gray	**ABR1S402B**	0.090/*0.198*
	1 C/O	⎓ 24	Gray	**ABR1S302B**	0.090/*0.198*
	1 N/C + 1 N/O	⎓ 24	Gray	**ABR1S602B**	0.090/*0.198*
Mechanical *(2)* **+ LED** *(3)*	1 N/O	≂ 24	Gray	**ABR1S118B**	0.095/*0.209*
		≂ 48	Gray	**ABR1S118E**	0.095/*0.209*
		∼ 115...127	Gray	**ABR1S111F**	0.095/*0.209*
	2 N/O	≂ 24	Gray	**ABR1S418B**	0.095/*0.209*
		≂ 48	Gray	**ABR1S418E**	0.095/*0.209*
		∼ 110	Gray	**ABR1S411F**	0.095/*0.209*
	1 C/O	≂ 24	Gray	**ABR1S318B**	0.095/*0.209*
		≂ 48	Gray	**ABR1S318E**	0.095/*0.209*
		∼ 110	Gray	**ABR1S311F**	0.095/*0.209*
	1 N/C + 1 N/O	≂ 24	Gray	**ABR1S618B**	0.095/*0.209*
		≂ 48	Gray	**ABR1S618E**	0.095/*0.209*
		∼ 110	Gray	**ABR1S611F**	0.095/*0.209*

Commencing links

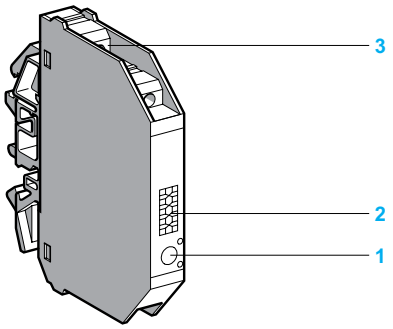
Description	For common	Color	Distance between cable ends	Reference	Weight
			cm/*in.*		kg/*lb*
Commoning links in modules 8 x 1 mm²	Coil	White	12/*4.72*	**ABFC08R12W**	0.020/*0.044*
			2/*0.79*	**ABFC08R02W**	0.010/*0.022*
	∼	Red	12/*4.72*	**ABFC08R12R**	0.020/*0.044*
			2/*0.79*	**ABFC08R02R**	0.010/*0.022*
	⎓	Blue	12/*4.72*	**ABFC08R12B**	0.020/*0.044*
			2/*0.79*	**ABFC08R02B**	0.010/*0.022*

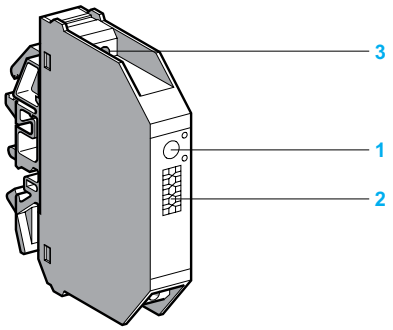
(1) Connection by screw-clamp.
(2) When relay is activated electrically or mechanically (pressing the test button), the green mechanical indicator appears .
(3) When control signal is present, the green LED illuminates.
(4) With polarization (+ on A1, - on A2).

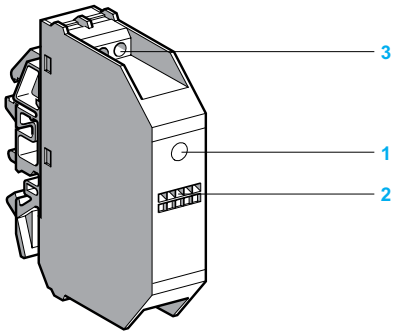
Zelio interfaces

Electromechanical interface modules for discrete signals

Slim electromechanical interface modules







ABR-2 electromechanical interface modules complement the ABR-1 range.
They are characterised by micro relay technology which allows reduced dimensions and low switching levels (TTL, HCMOS, analog signals).
The ABR-2 family is in the form of slim compact modules, 9.5 mm/*0.37 in.* wide for input interface modules, 12 mm/*0.47 in.* wide for output interface modules, and 17.5 mm/*0.69 in.* wide for low level switching products.

Description

The ABR-2 comprises 3 families :

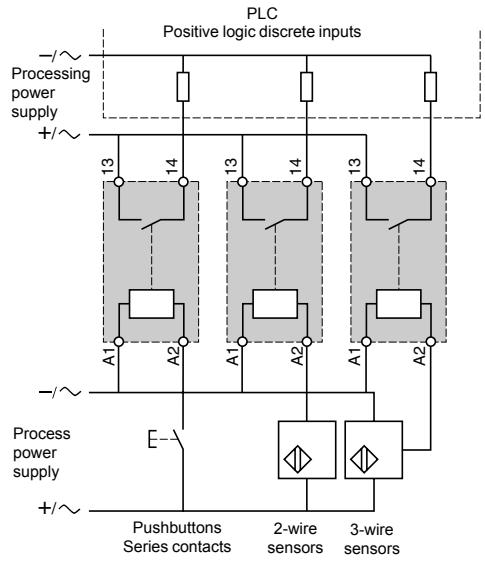
Input interfaces (9.5 mm/*0.37 in.* pitch)
Input interfaces switch input signals to a processor and are characterized by their high degree of contact reliability : less than 1 fault per 100 million operating cycles at ⎓ 17 V, 5 mA.
An immunity to current leakages ⩽ 2 mA, and a wide coil voltage range (0.7 to 1.25 Un).

Output interfaces (12 mm/*0.47 in.* pitch)
Output interfaces control the preactuators (contactors, solenoid valves, etc) for signalling devices (indicators lamps, audible alerts, etc). They are characterized by a high switching capacity and an immunity to current leakages ⩽ 2 mA. A lower cost version without LED signalling is available.

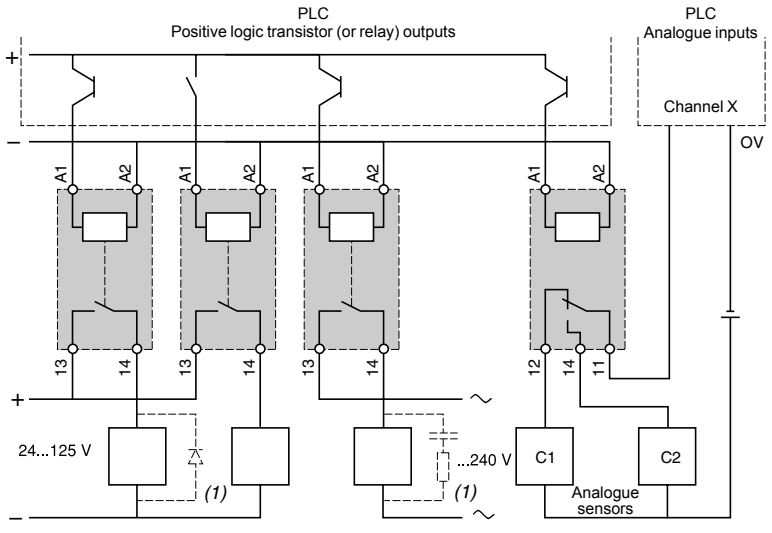
Low level switching input and output interfaces (17.5 mm/*0.69 in.* pitch) **with 1 C/O contact**
These interfaces are designed for switching logic (TTL or HCMOS) and analogue signals.
Warning : never switch inductive loads with this type of interface.

The front panel of the ABR-2 electromechanical interface module comprises :
1 LED indicating the control signal state
2 Channel identification : 5 individual characters for AB1-R/G or 1 AB1-SA2 marker tag
3 Connection by screw clamp terminal enabling easy attachment of 2 wires per terminal. The layout of the connection terminals for both families (input and output) is designed for rational wiring and a clear separation between the incoming (processing) and outgoing (power and process control) circuits.

Examples of applications with PLCs



ABR2E●●●●



ABR2S●●●●

ABR2SB12B

(1) Necessary for inductive loads (can be replaced with peak limiter ⏚).

Zelio interfaces

Electromechanical interface modules for discrete signals

Slim electromechanical interface modules

Control circuit : AC or DC

PF43128



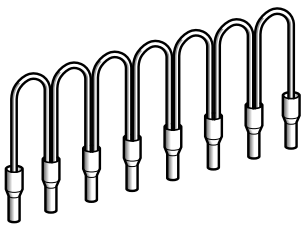
ABR2E112B

PF43128



ABR2EB112B

816365



ABFC08R●●●

Input modules (9.5 mm/*0.37 in.* pitch)

Indication	Composition	Control circuit	Sold in lots of	Unit reference	Weight
		V			kg/*lb*
With LED	1 N/O	⎓ 24	5	**ABR2E112B**	0.032/*0.071*
		⎓ 48	5	**ABR2E112E**	0.032/*0.071*
		∿ 115...127 (50 Hz)	5	**ABR2E115F**	0.035/*0.077*
		∿ 120...127 (60 Hz)	5	**ABR2E116F**	0.035/*0.077*
		∿ 230...240 (50/60 Hz)	5	**ABR2E111M**	0.036/*0.079*

Output modules (12 mm/*0.47 in.* pitch)

Indication	Composition	Control circuit	Sold in lots of	Unit reference	Weight
		V			kg/*lb*
Without	1 N/O	⎓ 24	5	**ABR2S102B**	0.040/*0.088*
With LED	1 N/O	⎓ 24	5	**ABR2S112B**	0.041/*0.090*

Modules for very low level switching (17.5 mm/*0.69 in.* pitch)

Indication	Composition	Control circuit	Reference	Weight
		V		kg/*lb*
Input				
With LED	1 C/O *(1)*	⎓ 24	**ABR2EB312B**	0.048/*0.106*
Output				
With LED	1 C/O *(1)*	⎓ 24	**ABR2SB312B**	0.048/*0.106*

Commencing links

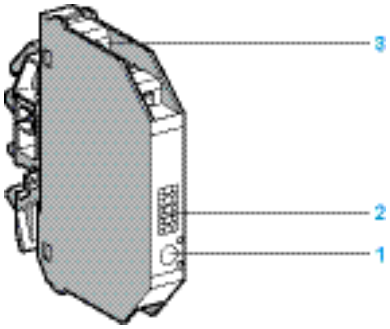
Description	For common	Color	Distance between cable ends	Reference	Weight
			cm/*in.*		kg/*lb*
Flexible comb modularity 8 x 1 mm²	Coil	White	12/*4.72*	**ABFC08R12W**	0.020/*0.044*
			2/*0.79*	**ABFC08R02W**	0.010/*0.022*
	∿	Red	12/*4.72*	**ABFC08R12R**	0.020/*0.044*
			2/*0.79*	**ABFC08R02R**	0.010/*0.022*
	⎓	Blue	12/*4.72*	**ABFC08R12B**	0.020/*0.044*
			2/*0.79*	**ABFC08R02B**	0.010/*0.022*

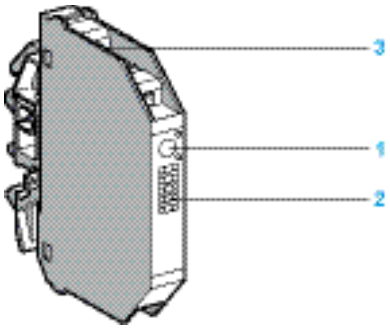
(1) Do not switch inductive loads.

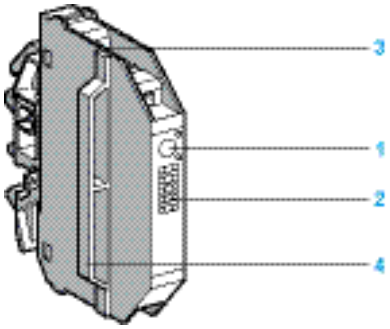
Zelio interfaces

Solid state interface modules for discrete signals

Slim solid-state interface modules







The ABS2 solid-state interface relays are supplied in the form of compact modules which appear identical to the ABR2 electromechanical family.
They are designed for interfacing discrete digital control signals exchanged within an automated system between the processor (PLC, numerical controller, etc) and the other components (contactors, solenoid valves, indicator lamps, proximity sensors, etc).
They are suitable for use in equipment which requires the benefits of electronic technology : a high operating rate, virtually unlimited durability, silent operation, etc.
These products are notable for their high performance and excellent adaptation to industrial environments, conforming to the recent IEC standards.

Composition

The ABS-2 range comprises 2 families:

Input interfaces
The 9.5 mm/*0.37 in.* wide input interfaces are designed for switching input signals to processors. They offer a wide choice of electrical isolation between signals due to the wide range of input voltages from ⎓ 5 V to ∿ 230 V.

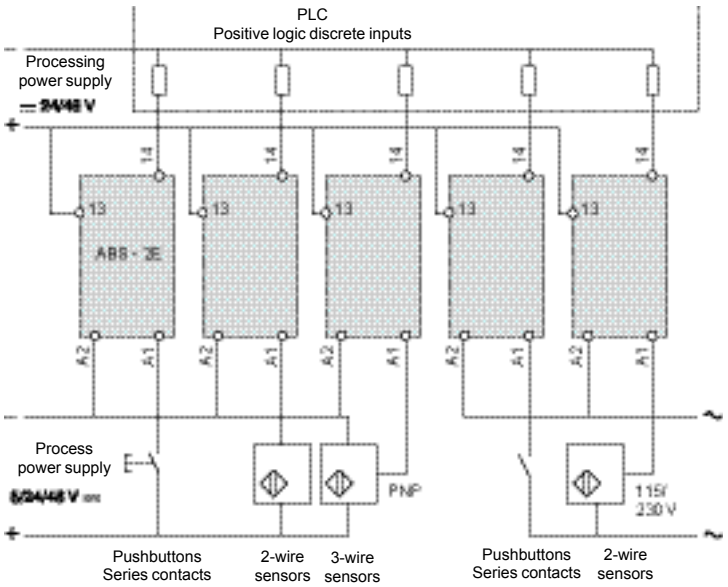
Output interfaces
Output interfaces control the preactuators (contactors, solenoid valves, etc) for the signalling devices (indicator lamps, audible alerts, etc).
2 widths are available, 9.5 mm/*0.37 in.* and 17.5 mm/*0.69 in.*, depending on the switched current.

The 17.5 mm/*0.69 in.* version comprises a 9.5 mm/*0.37 in.* interface and an integrated 8 mm/*0.32 in.* spacer. This device can, with its increased ventilation, switch high levels of currents.

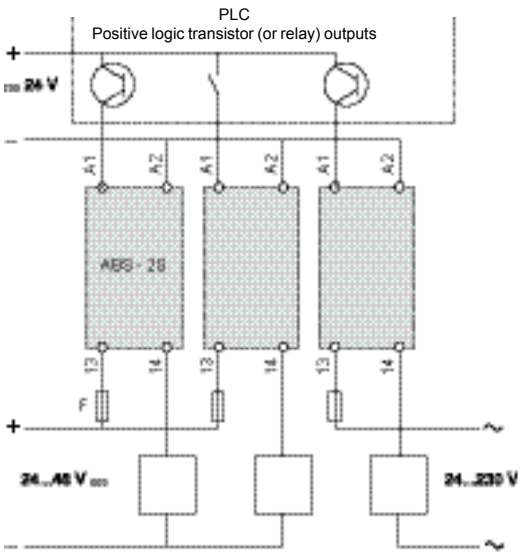
The front panel of the ABS-2 slim solid-state interface module comprises:
1 LED indicating the state of the control signal.
2 Channel identification : 5 individual characters for AB1-/G or one AB1SA2 marker tag.
3 Connection by screw clamp terminal enabling easy attachment of 2 wires per terminal.
The layout of the connection terminals for both families (input and output) is designed for rational wiring and a clear separation between the incoming (processing) and outgoing (power and process control) circuits.
4 Integrated spacer.

Examples of applications with PLCs

Interfacing PLC discrete inputs



Interfacing PLC discrete outputs



Zelio interfaces

Solid state interface modules for discrete signals

Slim solid-state interface modules

Solid-state input modules

Width	Input circuit		Output circuit		Sold in lots of	Unit reference	Weight
	Current	Nominal voltage	Current	Nominal voltage			
mm		V		V			kg/*lb*
9.5	⎓	5	⎓	5…48	5	**ABS2EC01EA**	0.029/*0.064*
		24	⎓	5…48	5	**ABS2EC01EB**	0.029/*0.064*
		48	⎓	5…48	5	**ABS2EC01EE**	0.029/*0.064*
	∿	115…127 (50 Hz)	⎓	5…48	5	**ABS2EA01EF**	0.032/*0.071*
		120…127 (60 Hz)	⎓	5…48	5	**ABS2EA02EF**	*0.032/0.071*
		230…240 (50 Hz)	⎓	5…48	5	**ABS2EA01EM**	0.033/*0.073*
		230…240 (60 Hz)	⎓	5…48	5	**ABS2EA02EM**	0.033/*0.073*

Solid-state output modules

Width	Input circuit		Output circuit		Sold in lots of	Unit reference	Weight
	Current	Nominal voltage	Current	Nominal voltage			
mm/*in.*		V	A	V			kg/*lb*
9.5/*0.37*	⎓	24	⎓ 2	5…48	5	**ABS2SC01EB**	0.034/*0.075*
			∿ 2.3	24…240	5	**ABS2SA01MB**	0.034/*0.075*
17.5/*0.69*	⎓	24	⎓ 3	5…48	1	**ABS2SC02EB**	0.043/*0.095*
			∿ 3	24…240	1	**ABS2SA02MB**	0.044/*0.097*

Accessories

For connecting commons, use **ABFC08●●●** flexible combs (please consult our Customer Care Centre).

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