

Zelio RXM

Miniature relays

Specification and selection guide



Schneider
 **Electric**

Easiness and reliability

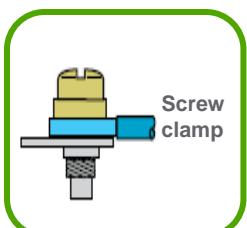
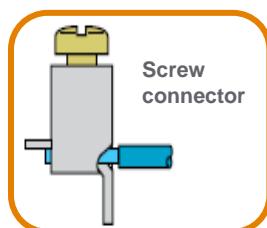
Zelio RXM industrial relay brings the right features for easy and improved control on both simple and complex automation system.

Easy to select

- >Wide choice of numbers of contacts (2,3,4 C/O)
- >Wide control circuit voltage coverage
- >Standard or low level contacts (optional)
- >Wide range of socket types
- >Configurator available

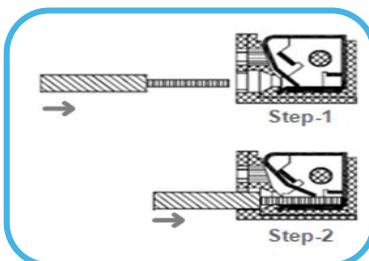
Convenient to use

- >One step lockable test button
- >Mechanical indicator for contact status
- >“Power On” LED for readiness



Simple to install

- >Push n' stay spring clamp socket wiring without screw driver, up to 65% time saving
- >Sockets for both DIN-rail and panel mounting
- >Direct mounting with DIN-rail or flange adapter
- >Time-saving with bus jumper



Designed to perform

- >Flexible add-in protection modules
- >Spring clamp socket 20KG wire pull-out force, that improves retention force on cables. No tool is required.

Compliant to the most requested standards

Eco-Design with RoHS and REACH



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configure your electronic
and electromechanical
relays

Zelio RXM technical specifications

		Schneider			
		RXM2AB*	RXM3AB*	RXM4AB*	RXM4GB*
GENERAL CHARACTERISTICS					
Standard		IEC 61810-1, UL 508, CSA C22-2 No14			
Certification		CE, UL recognized, UL listed with socket, CSA, GOST, Lloyd's, ROHS, REACH			
Pollution Degree		3		2	
Overvoltage Category		III			
Ambient temperature (Storage)	°C	-40 to 85			
Ambient temperature (Operation)	°C	-40 to 55			
Vibration resistance (in operation)		3 gn (10-150Hz / +/-1mm/5g/5cycles)			
Vibration resistance (not operating)		5 gn (10-150Hz / +/-1mm/5g/5cycles)			
Degree of protection		IP40			
Shock resistance	gn	10gn (in operation)			
Shock resistance		30gn (not operation)			
Protection category		RT I			
Mounting Position		Any			
INSULATION CHARACTERISTICS					
Rated Insulation Voltage Ui (IEC 60947)	V	250(IEC), 300(UL, CSA)			
Rated Impulse Withstand Voltage	kV	4 (1.2/50us)		2.5 (1.2/50us)	
Dielectric_Between coil & contact	VAC	2000 (reinforced)			
Dielectric_Between poles	VAC	2000 (basic)			
Dielectric_Between contacts	VAC	1300 (micro disconnection)			
CONTACT CHARACTERISTICS					
Contact material		Silver alloy			AgAu - Bifurcated
Conventional thermal current <=55°C	A	12	10	6	3
Rated operational current(IEC)_NO	A	12	10	6	2
Rated operational current(IEC)_NC	A	6	5	3	1
Rated operational current(UL)	A	12	10	6	3
Switching Voltage(Maximum)	V	250 VAC/VDC (IEC) / 300V (UL,CSA)			
Nominal Load (resistive) AC	A	12A /250VAC	10A /250VAC	6A /250VAC	3A /250VAC
Nominal Load (resistive) DC	A	12A /28VDC	10A /28VDC	6A /28VDC	3A /28VDC
Switching Capacity (Maximum) AC	VA	3000	2500	1500	750
Switching Capacity (Maximum) DC	W	336	280	168	84
Switching Capacity (Minimum)	mW	170mW (10mA / 17V)			15mW (3mA / 5V)
Maximum Operating Rate (No Load)		18000			
Maximum Operating Rate (Under Load)		1200 Operating cycles/hour			
Utilization coefficient		0,2			
Mechanical durability	Million	10			
Electrical durability (resistive)	Million	0,1			
Electrical durability (inductive)	Million	See curves below			
COIL CHARACTERISTICS					
Average Consumption (AC)	VA	0,9			
Average Consumption (DC)	W	0,9			
Drop out Voltage Threshold (AC)		>=0.15Uc			
Drop out Voltage Threshold (DC)		>=0.10Uc			
Operating Voltage limits	V	0.8~1.1Uc			
Coil Insulation		Class F			
Operating time	mS	20 max			
Release time	mS	20max (DC); 35max (AC)			
Control Voltage	DC	12/24/48/60/110/125/220			
	AC	24/48/120/230/240			
Coil resistance		refer to datasheet			

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Relays

Function	Miniature Relay (RXM)				Timing relay (REXL)		
	Standard			Low level (bifurcated contact)	Delay on fuction - 0.1s to 100h		
	2 C/O - 12A	3 C/O - 10A	4 C/O - 6A		4 C/O - 3A	2 relay outputs -5A	
Without LED	12 VDC	RXM2AB1JD	RXM3AB1JD	RXM4AB1JD	RXM4GB1JD	 	
	24 VDC	RXM2AB1BD	RXM3AB1BD	RXM4AB1BD	RXM4GB1BD		
	48 VDC	RXM2AB1ED	RXM3AB1ED	RXM4AB1ED	RXM4GB1ED		
	110 VDC	RXM2AB1FD	RXM3AB1FD	RXM4AB1FD	RXM4GB1FD		
	220 VDC	-	-	RXM4AB1MD	-		
	24 VAC	RXM2AB1B7	RXM3AB1B7	RXM4AB1B7	RXM4GB1B7		
	48 VAC	RXM2AB1E7	RXM3AB1E7	RXM4AB1E7	RXM4GB1E7		
	120 VAC	RXM2AB1F7	RXM3AB1F7	RXM4AB1F7	RXM4GB1F7		
	230 VAC	RXM2AB1P7	RXM3AB1P7	RXM4AB1P7	RXM4GB1P7		
	240 VAC	-	-	RXM4AB1U7	-		
With LED	12 VDC	RXM2AB2JD	RXM3AB2JD	RXM4AB2JD	RXM4GB2JD	REXL2TMJD	REXL4TMJD
	24 VDC	RXM2AB2BD	RXM3AB2BD	RXM4AB2BD	RXM4GB2BD	REXL2TMBD	REXL4TMBD
	48 VDC	RXM2AB2ED	RXM3AB2ED	RXM4AB2ED	RXM4GB2ED	-	-
	60 VDC	-	-	-	RXM4GB2ND	-	-
	110 VDC	RXM2AB2FD	RXM3AB2FD	RXM4AB2FD	RXM4GB2FD	-	-
	125 VDC	-	-	RXM4AB2GD	RXM4GB2GD	-	-
	220 VDC	-	-	-	RXM4GB2MD	-	-
	24 VAC	RXM2AB2B7	RXM3AB2B7	RXM4AB2B7	RXM4GB2B7	REXL2TMB7	REXL4TMB7
	48 VAC	RXM2AB2E7	RXM3AB2E7	RXM4AB2E7	RXM4GB2E7	-	-
	120 VAC	RXM2AB2F7	RXM3AB2F7	RXM4AB2F7	RXM4GB2F7	REXL2TMF7	REXL4TMF7
	230 VAC	RXM2AB2P7	RXM3AB2P7	RXM4AB2P7	RXM4GB2P7	REXL2TMP7	REXL4TMP7
	240 VAC	-	-	-	RXM4GB2U7	-	-

Control V

*REXL timing relay is from "Zelio Time Relay" family, for detail please refer to Zelio Time catalog

Sockets

For relays	Contact terminal arrangement	Connection	Reference
RXM2*, Timing relay REXL2*	Separate	Screw connector	RXZE2S108M
RXM3*	Separate	Screw connector	RXZE2S111M
RXM4*, Timing relay REXL4*	Separate	Screw connector	RXZE2S114M
RXM2*,RXM4*, Timing relay REXL2*,REXL4*	Separate	Push n' Stay Spring clamp	RXZE2S114S
RXM2*,RXM4*, Timing relay REXL2*,REXL4*	Mixed	Screw clamp	RXZE2M114
RXM2*,RXM4*, Timing relay REXL2*,REXL4*	Mixed	Screw connector	RXZE2M114M

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Protection modules

Function	Control voltage	Reference
Diode	6...250VDC	RXM040W
RC circuit	24...60VAC	RXM041BN7
	110...240VAC	RXM041FU7
Varistor	6...24V AC/DC	RXM021RB
	24...60 AC/DC	RXM021BN
	110...240 AC/DC	RXM021FP



Accessories

Function	Reference
Metal maintaining clamp	RXZ400
Plastic maintaining clamp	RXZR335
Bus jumper 2-pole (Ith:5A), for socket RXZE2S1**M	RXZS2
Mounting adapter for Din-rails	RXZE2DA
Mounting adapter with fixing lugs for panel	RXZE2FA
Clip-in legends for all RXM relays (sheet of 108 legends)	RXZL520
Clip-in legends for all RXM sockets except RXZE2M114	RXZL420

