DISIBEINT

SAJA
SAJB

CONTROL RELAY FOR 4-20mA CURRENT LOOP

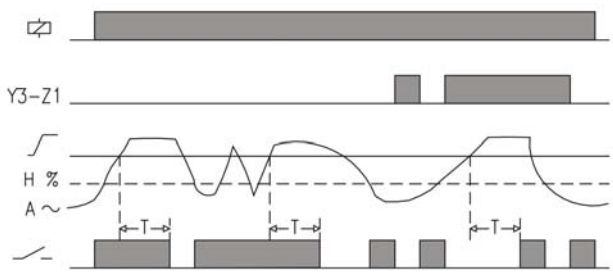
Differential character	Relay for 4-20mA current loop. Output of 15 VDC for the loop supply.
Operating principle	As monitoring relay, when the ooperative conditions are within the ranges set and there is no bridge between Y3-Z1, the relay remains activated independence of the position of the function selector. **Maximum current** - Selector in " ⌐ " position. When connecting the supply voltage, the relay operates instantaneously and: - If the current loop is lower than set the relay remains activated. When it exceeds the set value, the relay turns off and remains in this state until the current falls below the set percentage hysteresis control. - If the current loop is higher than set, the relay is deactivated. **Minimum current** - Selector in " ¬ " position. When connecting supply if the control intensity is higher than set the relay is activated instantly. When you control the intensity drops below the value set in the hysteresis control, the relay is deactivated after the time set in the hysteresis control. If, under the supply voltage intensity control is lower than set, the relay operates instantaneously and remains in this state for a period equal to the time control set. If during this time the intensity of control exceeds the set value, the relay remains activated.
Relays Inversion	A bridge between terminals Y3-Z1 invests relay status.
Hysteresis	Adjustable between 3% and 30% of the value of detection set.
Timing	Delay detection of 0 to 30 s.

Reference

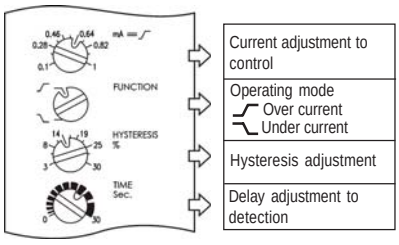
HOUSING		FUNCTION		OUTPUT		VOLTAGE		RANGES	
S	Flush mounting	**A J**	Current relay with two independent set points	**A**	1 SPDT	**024**	24 VAC	**A02**	2..20 mA
				B	1 SPDT	**110**	110..125 VAC		
						230	220..240 VAC		
						400	380..415 VAC		
						440	440 VAC		
						901	15..70 VAC/DC		
						902	60..240 VAC/DC		

To compose the reference, select one option of each column. Example: **SAJA 110 A02**

Operating diagram



Adjustment buttons



Connection diagram

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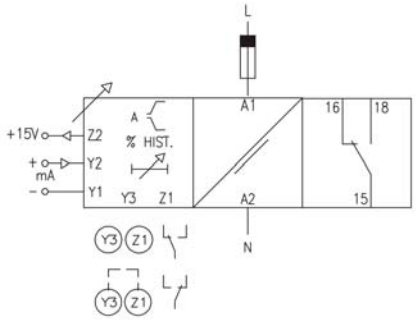
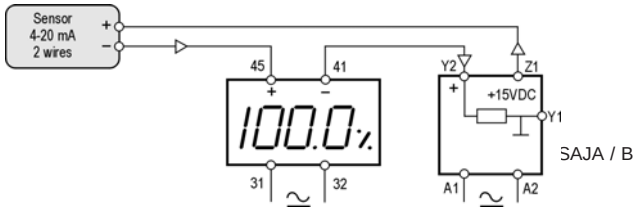
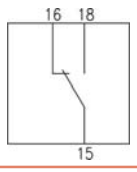
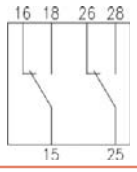


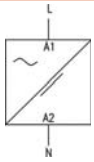
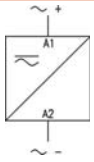
Sensors with analogical output 4-20 mA / 2 wires



Output relays

		SAJA	SAJB
			
Resistive load	AC	10 A / 250 V	8 A / 250 V
	DC	0,4 A / 200 V 10 A / 24 V	0,25 A / 200 V 8 A / 24 V
Inductive load	AC	5 A / 250 V	2,5 A / 250 V
	DC	5 A / 24 V	4 A / 24 V
Mechanical life		> 30 x 10^6 operations	
Max. switching rate, mech.		72.000 operations / hour	
Electrical life at full load		360 operations / hour	
Contact material		AgNi 90/10	
Maximum voltage		440 VAC	
Operating voltage		250 VAC	
Volt. between changeovers		2500 VAC	
Voltage between contacts		1000 VAC	
Voltage coil/contact		5000 VAC	
Distance coil/contact		10 mm	
Isolation resistance		> 10^4 MΩ	

Supply

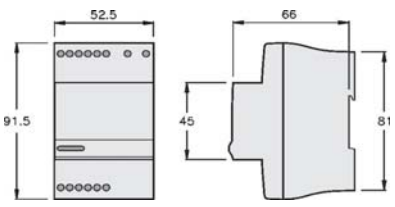
	AC SAJA/B	ACDC SAJA/B
		
Galvanic isolation	Yes	No
Frequency	50 / 60 Hz	-
Operating margins	±10.. -15%	± 10%
Positive	-	Terminal A1
Protected polarity	-	Sí

Constructive and anviromental data

	SAJA/B
Voltage phase-neutral	300 V
Overvoltage category	III
Rated impulse voltage	4 kV
Pollution degree	2
Protection	IP 20 B
Approximate weight	250 g
Storage temperature	-50..+85ºC
Operating temperature	-20..+50ºC
Humidity	30..85% HR
Housing	Cycoloy - Light grey
Socket	Lexan - Light grey
Leds cover	Lexan - Transparent
Button, terminal block, clip	Technyl - Dark blue
Pins of the socket	Nickel-plated brass
Pins of the terminal block	-
Approvals	Designed and manufactured under EEC standards. Electromagnetic compatibility , directives 89/366/EEC and 92/31/EEC. Electric safety, directive 73/23/EEC. Plastics: UL 91 V0

Dimensions

SAJA/B



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