

# PNAS / PNAT DNAS / DNAT

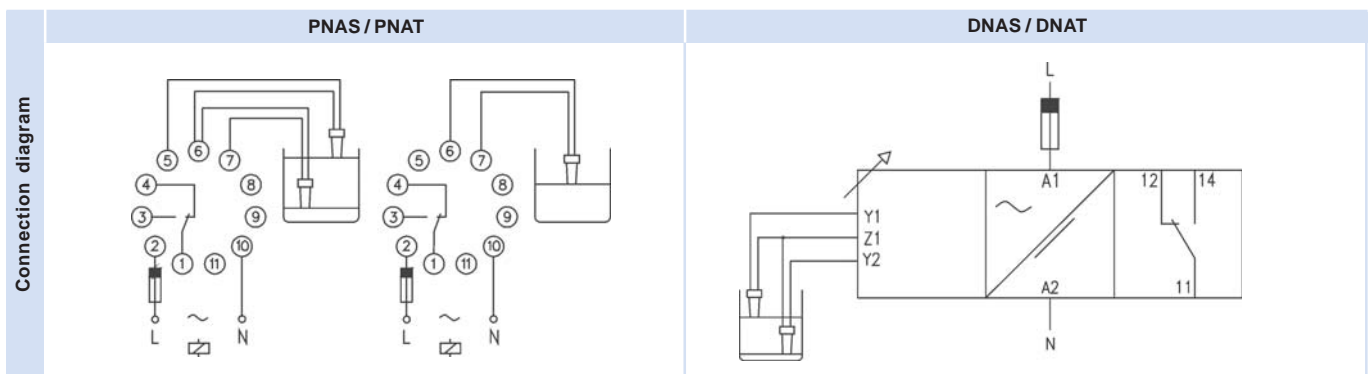
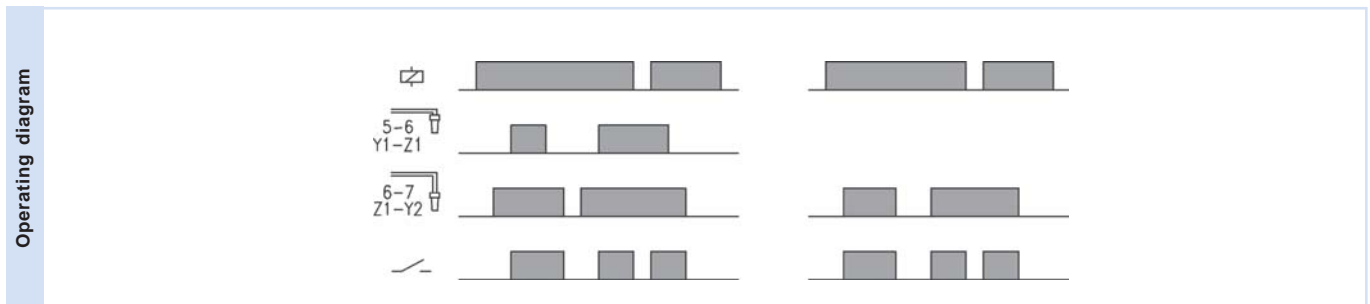


## AMPLIFIER RELAY FOR CAPACITIVE SENSORS

Function	Control relay for granulates, grain, etc.
Difference	It operates with capacitive sensors.
Operating principle	<b>Max. and Min. level control</b> . The relay operates when the product reaches the sensor located on the highest level (5-6:PNAS/T; Y1/Z1:DNAS/T), provided that the lowest sensor is in contact with it. The relay releases when the lowest sensor (6-7:PNAS/T;Y2/Z1:DNAS/T) no longer touches the product after the top sensor (5-6:PNAS/T; Y1/Z1:DNAS/T) has done so. <b>Max. or Min. level control</b> . The relay operates when the sensor (6-7:PNAS/T;Y2/Z1:DNAS/T) is reached by the product, and it releases in the opposite case.
Sensitivity	Fixed: the adjustment is incorporated in sensor.
Voltage in probes line	24 V DC (5 and 7:PNAS/T; Y1 and Y2:DNAS/T)
Current in probes line	15 mA
Probes connection cables	Two wires without shielding. In some applications is useful to employ shielded cable or to separate the supply line from the sensors one.
Probes cable lenght	< 100 mts.
Accessories	Capacitive sensors type SC.

Reference	HOUSING	FUNCTION	OUTPUT	VOLTAGE
	P Plug-in D DIN rail	<b>NA</b> Amplifier relay for capacitives sensors	<b>S</b> SPDT <b>T</b> DPDT	<b>724</b> 24 VDC <b>024</b> 24 VAC <b>048</b> 48 VAC <b>110</b> 110~125 VAC <b>230</b> 220~230 VAC <b>400</b> 380~415 VAC <b>U24</b> 24 VAC/DC <b>901</b> 15~70 VAC/DC <b>902</b> 60~240 VAC/DC

To compose the reference, select one option of each column. Example: **PNAS 724**



		PNAS	PNAT	DNAS	DNAT	
Output relays						
	Resistive load	AC	10 A / 250 V	8 A / 250 V	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	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	5 A / 250 V	2,5 A / 250 V
		DC	5 A / 24 V	4 A / 24 V	5 A / 24 V	4 A / 24 V
	Mechanical life		> 30 x 10 <sup>6</sup> operations		> 30 x 10 <sup>6</sup> operations	
	Max. switching rate, mech.		72.000 operations / hour		72.000 operations / hour	
	Electrical life at full load		360 operations / hour		360 operations / hour	
	Contact material		AgNi 90/10		AgNi 90/10	
	Maximum voltage		440 VAC		440 VAC	
	Operating voltage		250 VAC		250 VAC	
	Volt. between changeovers		2500 VAC		2500 VAC	
Voltage between contacts		1000 VAC		1000 VAC		
Voltage coil/contact		5000 VAC		5000 VAC		
Distance coil/contact		10 mm		10 mm		
Isolation resistance		> 10 <sup>4</sup> MΩ		> 10 <sup>4</sup> MΩ		

	CA		CC		CACC	
	PNAS/PNAT	DNAS/DNAT	PNAS/PNAT	DNAS/DNAT	PNAS/PNAT	DNAS/DNAT
Galvanic isolation	Yes		No		Yes	
Frequency	50 / 60 Hz		-		-	
Operating margins	±10% -15%		±10%		-	
Positive	-		Terminal 2	Terminal A1	Terminal 2	Terminal A1
Protected polarity	-		Yes		Yes	

Constructive and environmental data	PNAS / PNAT	DNAS / DNAT	
	Voltage phase-neutral	300 V	300 V
	Overvoltage category	III	III
	Rated impulse voltage	4 kV	4 kV
	Pollution degree	2	3
	Protection	IP 20 B	IP 20
	Approximate weight	250 g	280 g
	Storage temperature	-50°C +85°C	-50°C +85°C
	Operating temperature	-20°C +50°C	-20°C +50°C
	Humidity	30~85% HR	30~85% HR
	Housing	Cyclopol - Light grey	Cyclopol - Light grey
	Socket	Lexan - Light grey	-
	Visor leds	Lexan - Transparent	Lexan - Transparent
	Button, terminal block, clip	Technyl - Dark blue	Technyl - Dark blue
	Pins of the socket	Nickel-plated brass	-
Pins of the terminal block	-	Brass	
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	PNAS / PNAT		DNAS / DNAT	

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