DISIBEINT

PVDA / PVDB
DVDA / DVDB
SVDA / SVDB

VOLTAGE RELAY

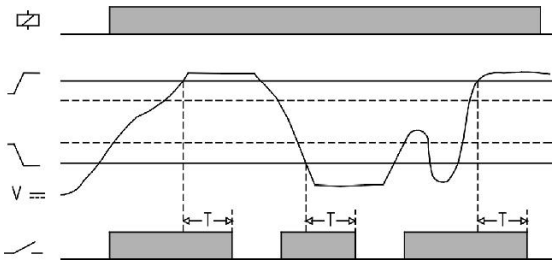
Difference	Relay for maximum, minimum or threshold voltage. Control of a secondary voltage.
Measurement	DC single phase.
Operating principle	**Threshold -** Selector in " ⎍ " position. The relay remains operated while the value of the meassure voltage is less than the maximum pre-set value and greater than the minimum pre-set value. If thre meassure voltage exceeds the maximum pre-set value or goes below the minimum, the relays releases after the time pre-set in the time control. **Maximum or Minimum -** In the Maximum and Minimum modes, the relay works in only one of the two states, according to the one selected.
Function	The function mode is selected through the " ⎍ - ⎍ - ⎍ " rotary switch.
Leds indication	Power on: Green Relay on: Red
Hysteresis	1%. fix.
Timing	Delay on detection, adjustable from 0 to 30 s.

Reference

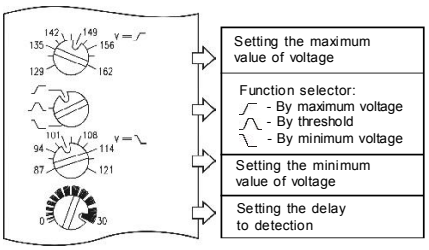
HOUSING		FUNCTION		OUTPUT		VOLTAGE		RANGES	MINIMUM	MAXIMUM
P	Plug-in	**VD**	Voltage relay	**A**	SPDT	**024**	24 VAC	**12V**	8,4..11,76 VDC	12,24..15,6 VDC
D	DIN rail			**B**	DPDT	**110**	110..125 VAC	**24V**	16,8..23,52 VDC	24,48..31,2 VDC
S	Flush mounting					**230**	220..240 VAC	**48V**	33,6..47,04 VDC	48,96..62,4 VDC
						400	380..415 VAC	**110**	77..107,8 VDC	112,2..143 VDC
						440	440 VAC	**125**	87,5..122,5 VDC	127,5..162,5 VDC
						901	15..70 VAC/DC			
						902	60..240 VAC/DC			

To compose the reference, select one option of each column. Example: **PVDA 110 125**

Operating diagram

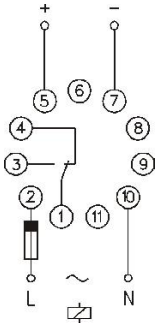


Adjustment buttons

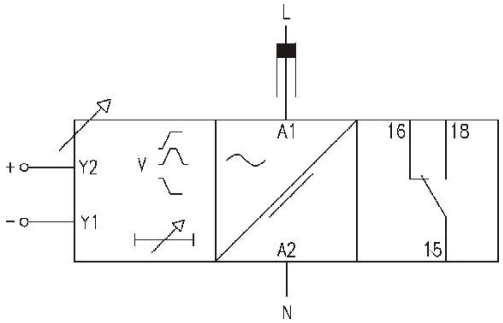


Connection diagram

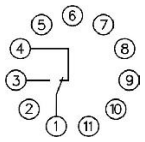
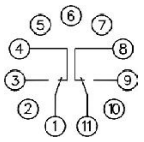
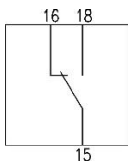
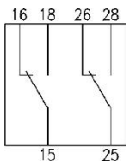
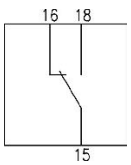
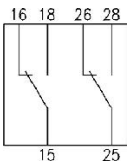
PVDA / PVDB



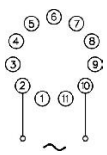
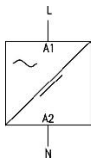
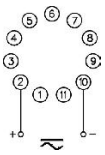
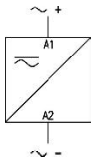
DVDA / DVDB - SVDA / SVDB



Output relays

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

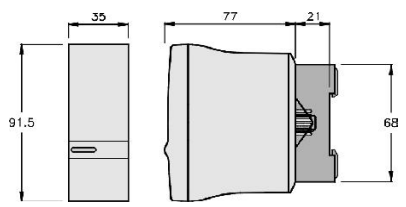
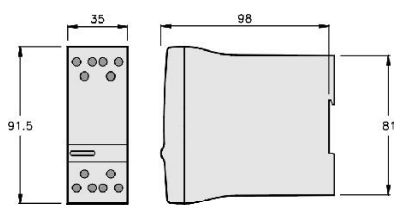
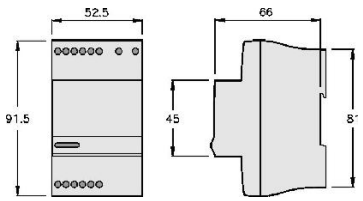
Supply

	PVDA / PVDB	DVDA/B - SVDA/B	PVDA/PVDB	DVDA/B - SVDA/B
				
Galvanic isolation	Yes		No	
Frequency	50 / 60 Hz		-	
Operating margins	±10% -15%		± 10%	
Positive	-		Terminal 2	Terminal A1
Protected polarity	-		Yes	

Constructive and anviromental data

	PVDA / PVDB	DVDA / DVDB	SVDA / SVDB
Voltage phase-neutral	300 V	300 V	300 V
Overvoltage category	III	III	III
Rated impulse voltage	4 kV	4 kV	4 kV
Pollution degree	2	3	3
Protection	IP 20 B	IP 20	IP 20
Approximate weight	250 g	280 g	280 g
Storage temperature	-50ºC +85ºC	-50ºC +85ºC	-50ºC +85ºC
Operating temperature	-20ºC +50ºC	-20ºC +50ºC	-20ºC +50ºC
Humidity	30~85% HR	30~85% HR	30~85% HR
Housing	Cycoloy - Light grey	Cycoloy - Light grey	Cycoloy - Light grey
Socket	Lexan - Light grey	-	-
Leds cover	Lexan - Transparent	Lexan - Transparent	Lexan - Transparent
Button, terminal block, clip	Technyl - Dark blue	Technyl - Dark blue	Technyl - Dark blue
Pins of the socket	Nickel-plated brass	-	-
Pins of the terminal block	-	Brass	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

PVDA / PVDB	DVDA / DVDB	SVDA / SVDB
		

DISIBEINT ELECTRONIC SL
Segle XX, 91
E08032-Barcelona
T: +34 934 330 370
F: +34 934 354 532
www.disibeint.com
disibeint@disibeint.com