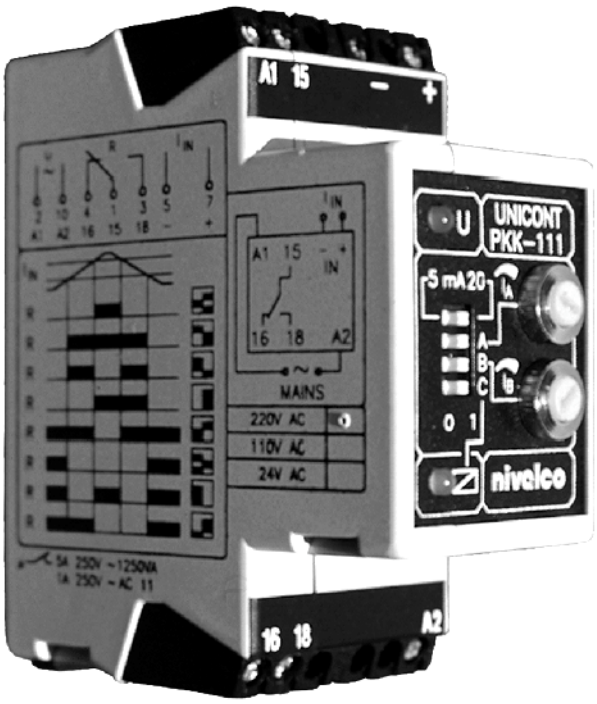
D A T A S H E E T

UNICONT PKK-111, PKS-111

CURRENT-CONTROLLED SWITCHES

PK10-P6A2



- **4-20mA or 0-5 mA input**
- **Limit switch**
- **Differential switch**
- **Window switch**
- **Power relay output**
- **Plug-in or DIN rail mountable**

1. GENERAL

The model PKK-111 (rail mountable) and PKS-111 (plug-in) current controlled switches can find applications in any field of the industry, wherever a transmitted output has to be detected and switching be triggered at a specified (preset) current value. Accordingly, their potential applications include alarm switching, current range indication and performing empty/fill-type control functions.

PKK-111, PKS-111 swithes can be connected to any two-wire current loop as a complementary device to:

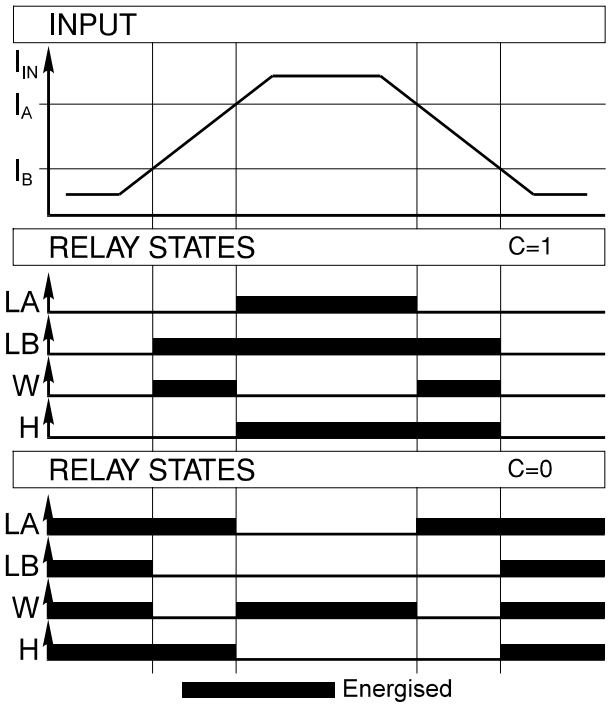
– ST... or SC... Nivosonar ultrasonic level transmitters
– CT... Nivocap capacitance level transmitters
– NPK... Nivopress hydrostatic level transmitters
– MS... Microsonar proximity transmitters

2. TECHNICAL DATA

Model	DIN rail mounting **PKK-111**	11-pin plug-in connector **PKS-111**
Current input	0/5 mA or 0/20 mA; selectable	
Adjustable range	0 to 6 mA or 0 to 26 mA	
Intput overload capacity	max. 100mA; continuous overload	
Input impedance	132Ω for 0/5 mA mode 57Ω for 0/20mA mode	
Relay output	SPDT; 250 V AC12, 8 A	
Switching delay	approx.: 1 sec	
Mechanical life	$2*10^6$ switching cycles	
Electrical life	10^5 switching cycles	
Supply voltage	230, 110, 24 V AC; 50 to 60 Hz or 24 V DC; -15 to 10%,	
Consumption	2.5 VA	
Ambient temperature	-10 to 55°C	
Enclosure	IP 40	
Housing material	Plastic	
Electrical protection	Class II.	

Mode	Function	Mode selector DIP-switches		Calibration
		A	B	
LA	Limit switch with	1	0	I_A
LB	0.5% hysteresis	0	1	I_B
H	Differential switch with adjustable hysteresis	1	1	I_A and I_B
W	Window switch	0	0	I_A and I_B

Relay switching mode diagrams



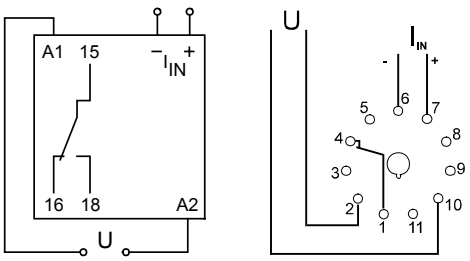
3. APPLICATION

The PKK-111 and PKS-111 unit will process 0-5mA and 0-20mA input currents. Naturally it is adaptable in any 4-20mA loop also. The input is floating and it is protected from spikes overlapping the DC current. The output is a high powered SPDT contact.
The switching mode of the output relay can be the following:

- limit switch (Modes L_A, L_B)
- window switch (Mode W)
- differential switch (Mode H)

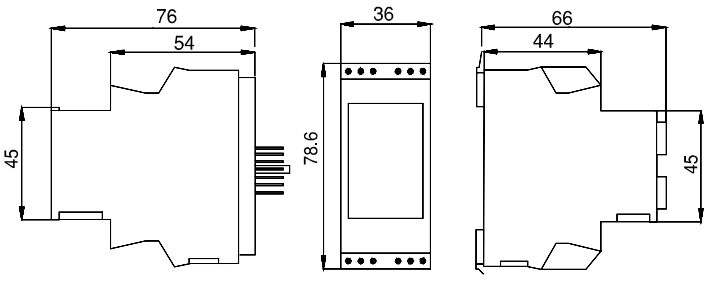
The above modes can be controlled by DIP-switches A, B and C according to the chart. LEDs provide for operation indication and relay energised state.

Wireing



PKK-111 **PKS-111**

Dimensions



PKS-111 **PKK-111**

Technical specification may be changed without notice.

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