### POWER SUPPLY WITH LOGIC AND TIMING FUNCTIONS





- 100-240 Vac or 24 Vac/Vdc power supply
- Single or double input for NPN/PNP, relay or 0-10V analogue sensors
- · Boolean logic functions: NOT, AND, OR, NAND, NOR
- Timing functions: ON and/or OFF delay, monostable, bistable

# **PSCU SERIES**

The control units of the **PSCU** series can be used to supply low voltage photoelectric sensors, as well as inductive or capacitive proximity, with the possibility to process the outputs with logic and timing functions.

The input can be configured for 1 or 2 sensors, with NPN or PNP, with relay, or with 0-10 Vdc analog output, which can be controlled with different logic functions: NOT, AND, OR, NAND, NOR.

The signal resulting from the logic operations drives the controller output, which can be processed with timing functions: ON and/or OFF delay, monostable or bistable commutation.

On the **PSCU** control panel, protected by a transparent cover, are present the LEDs for power, inputs and output status indication, as well as the trimmer for the inputs sensitivity and the timer adjustment.

The input selection, the logic and the timing functions are easily configured using the dip-switches on the controller side, where the extractable terminal blocks for the connection are also present.

The **PSCU** series is suitable for DIN rail mounting and is available with a 100-240 Vac or 24 Vac/Vdc power supply input and relay SPDT or transistor NO-NC controller output.

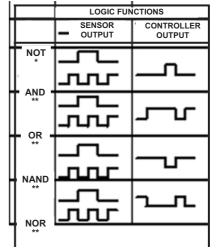




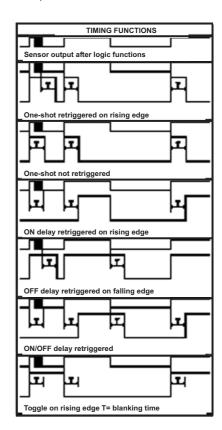
### **TECHNICAL DATA**

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Power supply:	. 24 Vac/Vdc ±10% (PSCU-0x)
	100 240 Vac (PSCU-1x)
Consumption:	. 2 VA max.
Sensor power supply:	20 Vdc ±10% 100 mA max. fold-back and
	short-circuit protected
Sensor input:	switch selectable, 1 or 2 inputs, relay
	NPN/PNP (10 k $\Omega$ ) or 010 Vdc (100 k $\Omega$ )
Logic functions:	switch selectable:
	NOT, AND, OR, NAND, NOR
Output:	relay SPDT 250 Vac, 8 A (PSCU-x0)
	transistor NPN/PNP NO-NC, 100 mA,
	optoisolated, fold-back short-circuit
	protected (PSCU-x1)
Response time:	10 ms max relay output (PSCU-x0)
	100 μs max. transistor output (PSCU-x1)
Timing functions:	monostable non-reset, delay on rising edge,
	delay on falling edge, delay on both edges,
	bistable (without timing)
Timing period:	switch selectable: 0.0041 s or 0.110 s
Setting:	input 1 sensitivity trimmer, input 2 sensitivity
	trimmer, timing trimmer, 4+8 dip-switch for
	inputs, logic and timing functions selection
Indicators:	input 1 green LED, input 2 green LED,
	output yellow LED, power green LED,
	short-circuit red LED
Connection:	2 extractable terminal blocks with 6+6
	screw contacts
Electrical protection:	class 1
Mechanical protection:	. IP20
Housing material:	blend PC/ABS (UL94-V0)
Weight:	. 200 g max.
Operating temperature:	
Storage temperature:	20 +65 °C
Reference standards:	EN 61010-1
Certifications:	€

## **TABLES**

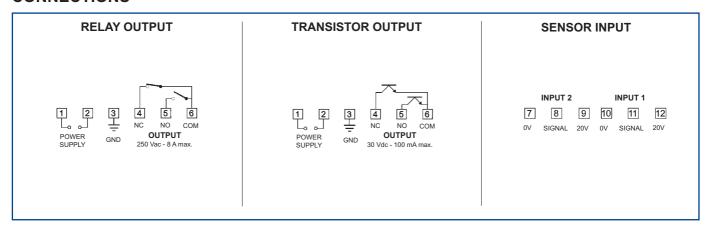


- Logic function on 1 or 2 sensor output
  Logic function between 1 and 2 sensor outputs

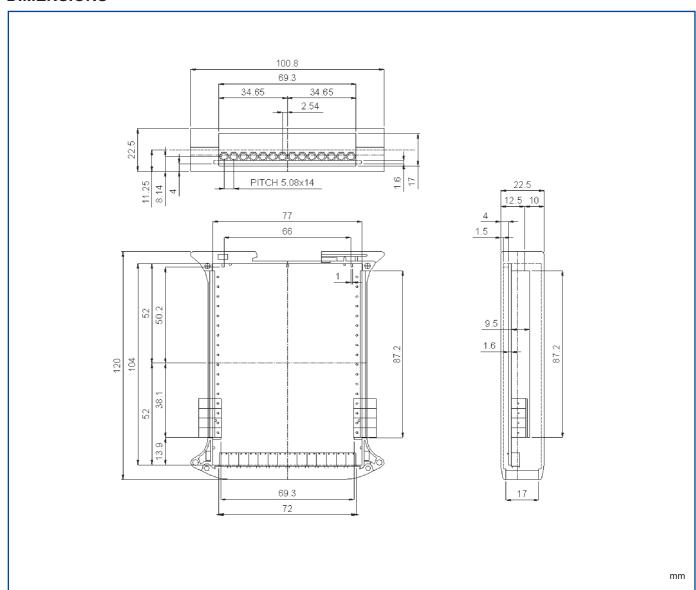




### **CONNECTIONS**



### **DIMENSIONS**





### MODEL SELECTION AND ORDER INFORMATION

MODEL	POWER SUPPLY	OUTPUT TYPE	CODE N°
PSCU-00	24 Vac/Vdc	relay SPDT	95A350100
PSCU-01	24 Vac/Vdc	transistor NPN/PNP NO-NC	95A350110
PSCU-10	100 240 Vac	relay SPDT	95A350120
PSCU-11	100 240 Vac	transistor NPN/PNP NO-NC	95A350130

# SENSOR CONTROL UNITS

### Distributed by:

### **HEADQUARTERS**

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