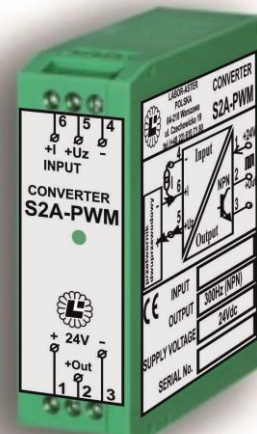## SIGNAL ANALOG CONVERTER FOR PWM
type S2A-PWM

- **Processing to PWM signal:**
  - **current or voltage (0/4÷20mA, 0÷10V)**
  - **4÷20mA signal from two-wire transducer**
  - **any signal as agreed**
- **Galvanic insulation of circuits: input and output.**

APPLICATION:

The S2A-PWM converter is used to convert analogue signal value into pulse sequence in the open collector type "OC" with variable pulse width.
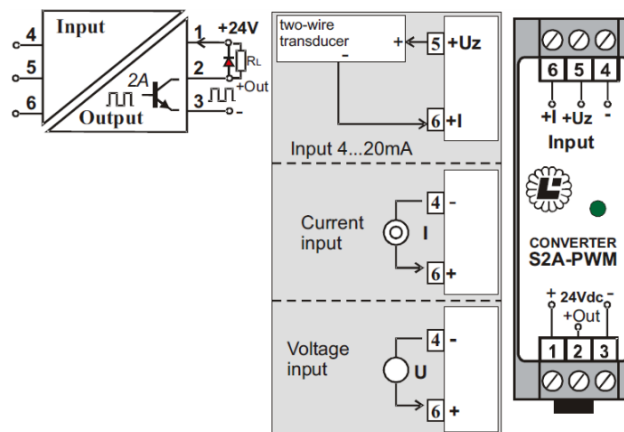
The output circuit of the converter is galvanically isolated from the input circuit. The converter has high processing accuracy. The standard use of the converter is to convert an analogue signal from the industrial controller to a PWM signal for (for example:) steering a solenoid valve.

BASIC TECHNICAL PARAMETERS:

Input signal	-	4÷20mA, 0÷20mA, 0÷10V
	-	any signal as agreed
	-	Supply 24Vdc 4÷20mA for two-wire converter loop
Output signal	-	OC PWM, Imax 2A, frequency standard 300Hz
	-	Or another as agreed
Accuracy class	-	0,2%
Temperature drift	-	0,01 %/°C
Voltage, current or load changes error	-	±0,005 %/V
Supply voltage	-	18...28V/60mA
Output response time to a unitary jump input	-	about 2,5 sec
Galvanic insulation	-	2kV, 50Hz
LED indication:		
- correct work	-	LED constantly shine
- line damage	-	LED flash
Housing:	-	width – 22,5 mm height - 79 mm depth - 74 mm
Protection level	-	IP40
mounting	-	on TS35 rail
Operating conditions:		
ambient temperature	-	0 ... 65ºC
ambient atmosphere	-	95%
Safety requirements	-	PN-EN 61010-1:2002
EMC requirements	-	PN-EN 61000-6-1
	-	PN-EN 61000-6-3

It is recommended to use an individual 24V external fuse depending on the load: $I_B = 2 \cdot I_{OBCmax}$

Note: If load Rload connected to the output is inductive (e.g. valve coil), there should be a diode connected in paralel as shown in the picture above.

HOW TO ORDER:

S2A-PWM – X – X

input range (**1...7**)
1 - 0...5mA   **5 -** 0...10V
2 - 0...20mA   **6 -** 1...5V
3 - 4...20mA   **7 -** any as agreed
4 - 0...5V

output frequency
0 - 300Hz
1 - any as agreed

Order example: Signal converter for PWM signal: input 4 ÷ 20mA, output frequency 300Hz: **S2A-PWM – 3 – 0**