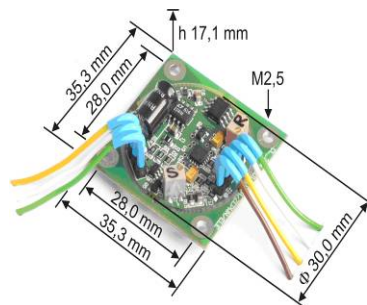


### Strain gauge amplifier CL 72-3I

- accuracy 0,02 % of measuring range
- power supply 24 V dc
- sensor voltage supply 5V or current supply 1mA
- current output 0 ÷ 20 mA
- operating temperatures from -40 ÷ up to 85 °C
- secured against reverse power -30V
- three year warranty



CL72-3I as a board to built-in sensor



CL72-3I in housing

The CL72-3I amplifier with current output 0 ÷ 20 mA can be built-in strain gauge sensor if only there is a free space inside the sensor or can be attached on cable in its own housing. There are housings with IP66 or IP68 available. The CL72-3I amplifier can be attached to strain gauge force sensors (full bridge), load cells or pressure sensors.

#### Electrical connection

Sensor		
white	-Z	sensor supply 0V / 0mA
brown	-S	signal
green	+S	signal
yellow	+Z	sensor supply 5V / 1mA
black		shield

Supply and output	
white	GND
yellow	+24V
green	output I (20 mA)
black	shield

Manufacturer \_\_\_\_\_

ZEPWN J. Czerwiński i Wspólnicy – sp.j., Poland, 05-270 Marki, ul. Kołłątaja 8  
 tel./fax: (004822) 7812169, 7712411, e-mail: [zepwn@zepwn.com.pl](mailto:zepwn@zepwn.com.pl), <http://www.zepwn.com.pl>

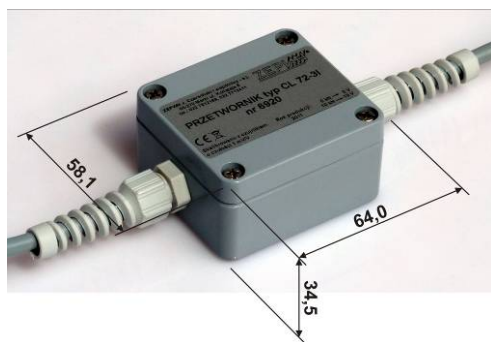
### Technical data:

	Min	Standard	Max	Unit	
Operating temperature range	-40	-	+85	°C	
Sensor cable length	-	-	3	m	
Transmission band - option *UF	dc	40	1000	Hz	
Sensor voltage supply	-	5	-	V	
Sensor input impedance	120	350	1200	Ω	
Current supply - option *UF	-	1	-	mA	
Sensor input impedance	700	-	5000	Ω	
Bridge sensitivity	0,5	2	100	mV/V	
Nonlinearity	-	-	0,02%	%FS	
Temperature effect on amplification	-	0,001	0,005	+/--%FS/°C	
Temperature effect on zero	-	0,001	0,002	+/--%FS/°C	
Gain control - option *UF	-	+/-4	-	%FS	
Zero adjustment - option *UF	-	+/-5	-	%FS	
Input	- type	symmetric		-	
	- resistance	1	-	GΩ	
Output	- type	asymmetric		-	
	- output voltage	0	20	24	mA
	- load	-	-	500	kΩ
	- output current	-	-	36	mA
Supply	- voltage	+19	+24	+32	V
	- current	24	-	60	mA
	- power cable length	-	-	3	m

UF – factory settings

FS – full scale

### Dimensions



### Manufacturer

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**Options of output current and IP**

CL72-3I-I out

(I out – output current)

I out	Value
020	0mA – 20mA
420	4mA – 20mA

IP (housing and connectors):

IP version	IP solution
X	IP00 – board to built-in sensor
O	IP66 – alu housing and connectors PG7
D	IP66 – alu housing and connectors EMC M12
M	IP68 – alu housing and connectors with cable shield

**Ordering proposals:****CL72-3I-420-X** : CL72-3I amplifier with current output 4÷20 mA as a board to built-in sensor.**CL72-3I-020-O** : CL72-3I amplifier with current output 0÷20 mA in alu housing and connectors PG7 (IP66).

Manufacturer \_\_\_\_\_

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