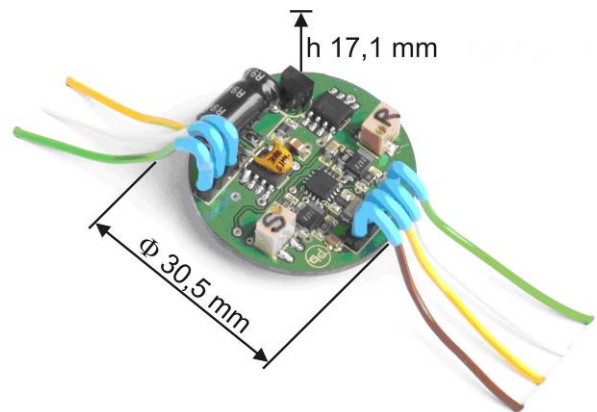


Strain gauge amplifier CL 72-3U

- accuracy 0,02 % of measuring range
- power supply 24 V dc
- sensor voltage supply 5V or current supply 1mA
- max. voltage output ± 10 V
- operating temperatures from $-40 \div$ up to 85 °C
- secured against reverse power -30V
- three year warranty



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



The CL72-3U amplifier with voltage output 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 CL72-3U 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 U (+/-10V)
black	shield

Manufacturer

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

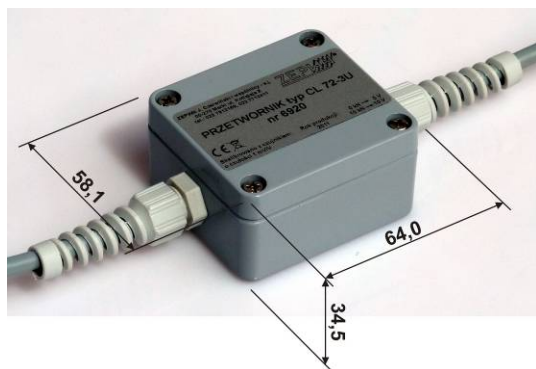
Technical data:

	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	-10	-	+10	V
	- load	10	-	-	kΩ
	- output current	-	-	18	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 voltage and IP

CL72-3U-Uout

(possible output voltage):

Uout	Value
10	+/- 10V
5	+/- 5V
2	+/- 2V
1	+/- 1V

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:**CL72-3U-U10-O** : CL72-3U amplifier with voltage output +/- 10V, metal housing and connectors PG7**CL72-3U-U5-X** : CL72-3U board with voltage output +/- 5V, to built-in sensor

Manufacturer _____

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