

Fast and Sensitive!

## Transimpedance Amp TZA200



### Highlights:

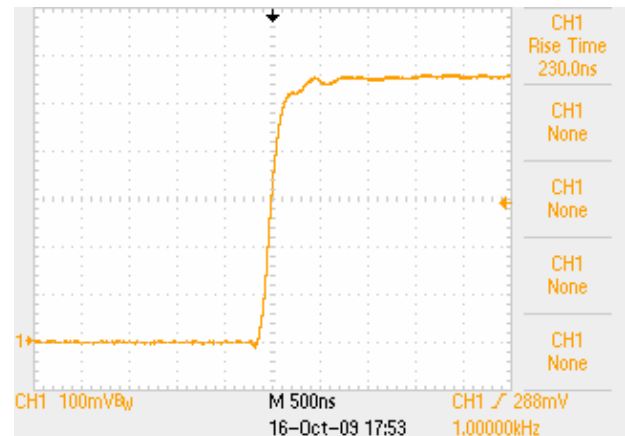
- Fast
- Wide dynamic range
- Compact

### Our offer in Detail:

The TZA200 amplifier employs precision single ended transimpedance input stages to provide for low offset and high linearity throughout the full dynamic range. The single ended input stage is required for applications where the current source is inherently grounded externally. These transimpedance amplifiers are particularly useful for the measurement of current from photodiodes. The output is a voltage linearly proportional to input current and thus, to input power in photodiode monitoring applications. The fast response time at high signal-noise-ratio makes the TZA200 series particularly useful in systems control feedback loops.

These amplifiers have a particularly high bandwidth of 10MHz allowing monitoring of high frequency noise components of many light sources.

The TZA200 series is insensitive to electromagnetic interference by design, an important factor when working in „dirty“ industrial environments. These units are provided in OEM-style enclosures. The case wings provide for mounting on standard 25mm and 1“ optical table tops and for OEM applications.



### Specifications:

- Interfaces: DB9 (analogue outputs)
- Rise time: 35ns (10MHz)
- Noise equivalent current: 1  $\mu$ A(RMS)
- Gain control: none

### Your problem is our challenge - flexibility is our standard:

We will gladly adapt, for example, the wavelength or the case style to suit your application. Let us know your requirements.

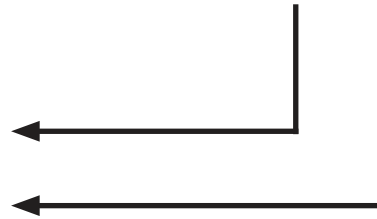
## Ordering Information

Full order code:

TZA 200 **c** **n**

Option Description

Case Style ( <b>c</b> )	G L	OEM gull wing Lab style
Number of channels ( <b>n</b> ):	1 to 4	



## Specifications

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
<b>INPUT</b>					
Input range (full scale)			4.5		mA
Noise equivalent current (NEI <sub>RMS</sub> )				1	µA
Connectors		BNC <sup>1</sup>			
<b>OUTPUT</b>					
Function		Linear analogue : $V_{out} = scale \times I_{in}$			
Output range (full scale)	High-Z termination 50Ω termination	4.0 2.0		4.5 2.25	V
Connectors		BNC <sup>1</sup>			
Output scale	High-Z termination 50Ω termination		1 0.5		V/mA
Rise / Fall time (10% - 90%)	Source capacitance < 100pF			35	ns
Setting time (1%)	Source capacitance < 100pF			100	ns
Accuracy		± 1			%
Output impedance				50	Ω
<b>POWER SUPPLY</b>					
Type		Wall plug (supplied)			
<b>DIMENSIONS</b>					
	1 channel	102 x 45 x 116 (w x h x l)			mm
	4 channels	102 x 106 x 116 (w x h x l)			mm
	19" rack modules	3U			

<sup>1</sup> Adapters for other connector systems available.