

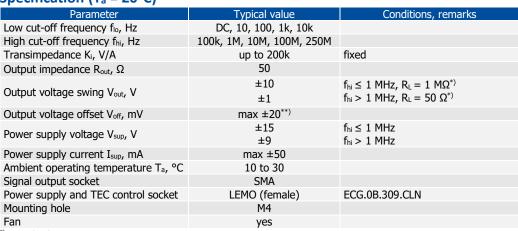
### **MIP** series

**MIP** is a series of medium-size transimpedance, DC or AC coupled preamplifiers, intendend to operate with either biased or non-biased VIGO detectors. MIP is equipped with a fan and does not require any additional external heatsink. It is one of the most user-friendly preamplifier which surely facilitate work.

#### **Features**

- Frequency bandwidth up to 250 MHz
- Integrated fan
- Compatible with optical accessories





<sup>\*)</sup> R<sub>L</sub> - load resistance

# Types of VIGO detectors that can be integrated with MIP preamplifier

- Photoconductive
  - PC-2TE, PC-3TE, PC-4TE
- Phtoconductive optically immersed
- PCI-2TE, PCI-3TE, PCI-4TE
- Photovoltaic
  - PV-2TE, PVA-2TE, PV-3TE, PV-4TE
- Photovoltaic optically immersed PVI-2TE, PVIA-2TE, PVI-3TE, PVI-4TE
- Photovoltaic multiple junction PVM-2TE
- Photovoltaic multiple junction optically immersed PVMI-2TE, PVMI-3TE, PVMI-4TE

#### **Included accessories**

SMA-BNC, LEMO-DB9 cables

#### **Dedicated accessories**

- PTCC-01-BAS TEC controller + USB: TypeA-MicroB cable
  + AC adaptor
- PTCC-01-ADV TEC controller + USB: TypeA-MicroB cable
  + AC adaptor
- PTCC-01-OEM TEC controller + USB: TypeA-MicroB, KK2-POWER cables
- OTA optical threaded adapter
- DRB-2 base mounting system

### **Code description**

Туре		f <sub>lo</sub> , Hz		f <sub>hi</sub> , Hz
		DC		100
		10		1M
MIP	_	100	_	10M
		1k		100M
		10k		250M

# Power supply and TEC control socket LEMO (female) ECG.0B.309.CLN



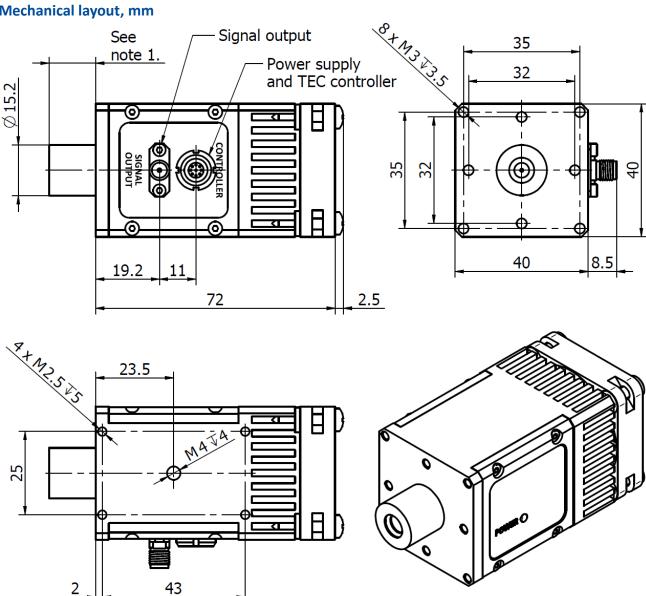
Function	Symbol	Pin number
Fan (+)	FAN+	1
Thermistor output (2)	TH2	2
TEC supply input (–)	TEC-	3
Power supply input (-)	$-V_{sup}$	4
Ground	GND	5
Power supply input (+)	$+V_{sup}$	6
TEC supply input (+)	TEC+	7
Thermistor output (1)	TH1	8
Data pin	DATA	9



<sup>\*\*)</sup> Measured with equivalent resistor at the input instead of the detector, it is to avoid the environmental thermal radiation impact.



## Mechanical layout, mm



Notes:

TO8 detector dimensions in the "TO8 technical drawing".