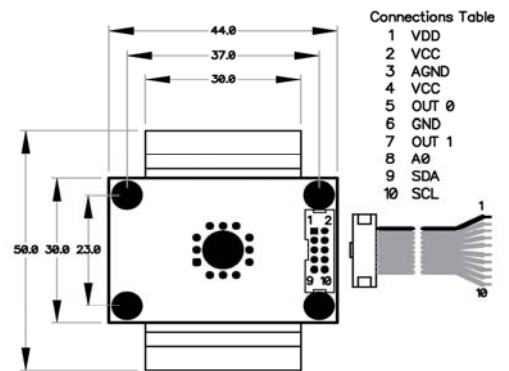
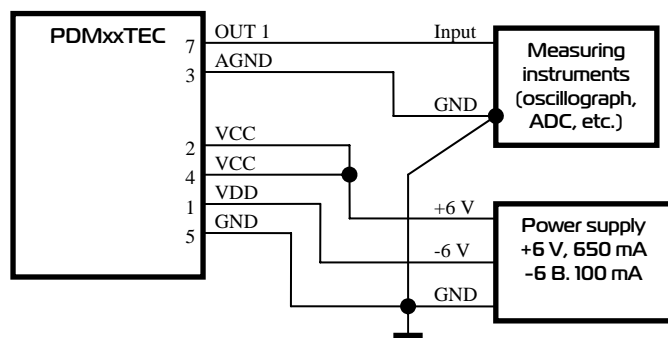


# Infrared detection module with Transimpedance Amplifier and TEC controller

**PDMxxTEC**

Type	PDM34TEC	PDM38TEC	PDM42TEC	PDM47TEC	PDM55TEC
Used Photodiode	PD34	PD38	PD42NB/WB	PD47NB/WB	PD55
Peak wavelength, $\mu\text{m}$	3.4	3.8	4.0÷4.2	4.5÷4.7	5.3÷5.5
Photosensitive area, mm/Field of view, deg.	$\varnothing 3.2 / \sim 15$				
Current/voltage conversion coefficient, V/A	1E4 ÷ 2.5E5				
Maximum output voltage, V	2.5				
$U_{r.m.s.}$ , mV	$\sim 2 \div 5$				
External power supply, V	$\pm 6$				
Frequency response, MHz	DC ÷ 1				
Photodiode stabilization temperature at $T_{AMB} = 20 \div 30 \text{ }^\circ\text{C}$	20 $^\circ\text{C}$				

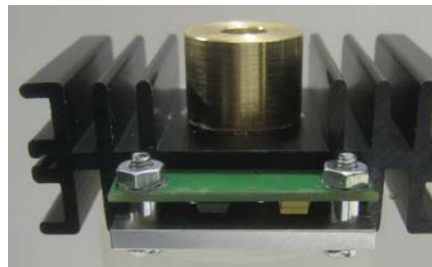
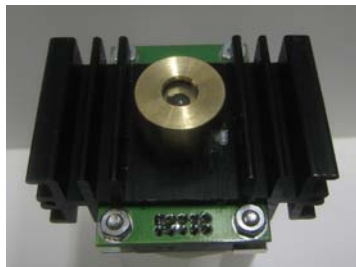
Wiring circuit diagram



Connections Table

1	VDD
2	VCC
3	AGND
4	VCC
5	OUT 0
6	GND
7	OUT 1
8	A0
9	SDA
10	SCL

Product view



1. VDD	Power supply input (-6 V, peak current 100 mA)
2. VCC	Power supply input (+6 V, peak current 650 mA)
3. AGND	Ground for analog signal
4. VCC	Positive power supply. Have to be connected with Pin 2.
5. OUT 0	Analog output 1 (Not used)
6. GND	Power ground
7. OUT 1	Analog output 2 (-2.5 V ÷ +2.5 V)
8. A0	Interface I2C (Not used))
9. SDA	
10. SCL	

**ATTENTION! Ground for analog signal have to be connected with Power ground!**

Product specifications are subject to change without prior notice due to improvements or other reasons. Updated 01.06.14



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