

KAMAMI

KAmoPCF8883T



Rev. 20200923102942

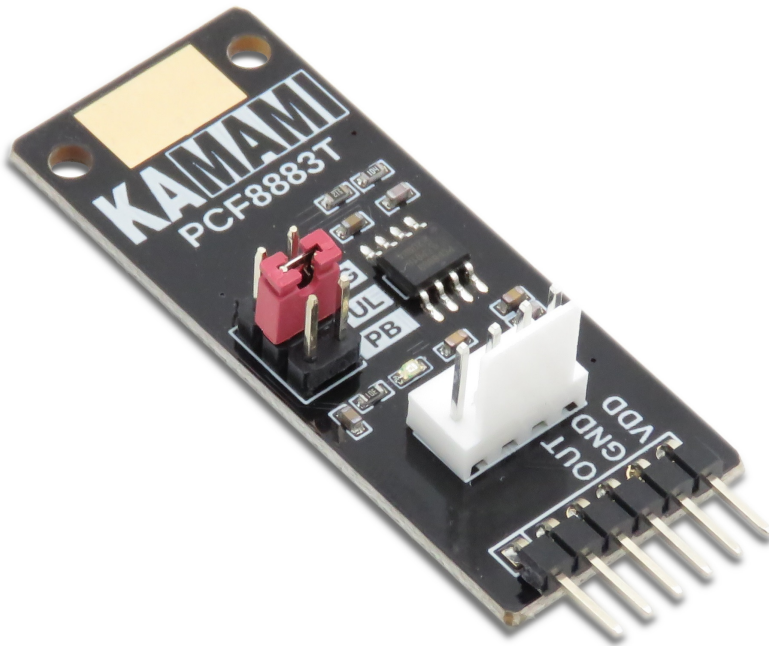
Źródło: <https://wiki.kamamilabs.com/index.php/KAmoPCF8883T>

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Description

[KAmoPCF8883T](#) is a module with a capacitive touch sensor PCF8883 from NXP. The board is equipped with a Pmod GPIO standard connector with one digital output informing about the status of the sensor output depending on the selected operating mode. Due to its small dimensions, the product can be used in many development projects.



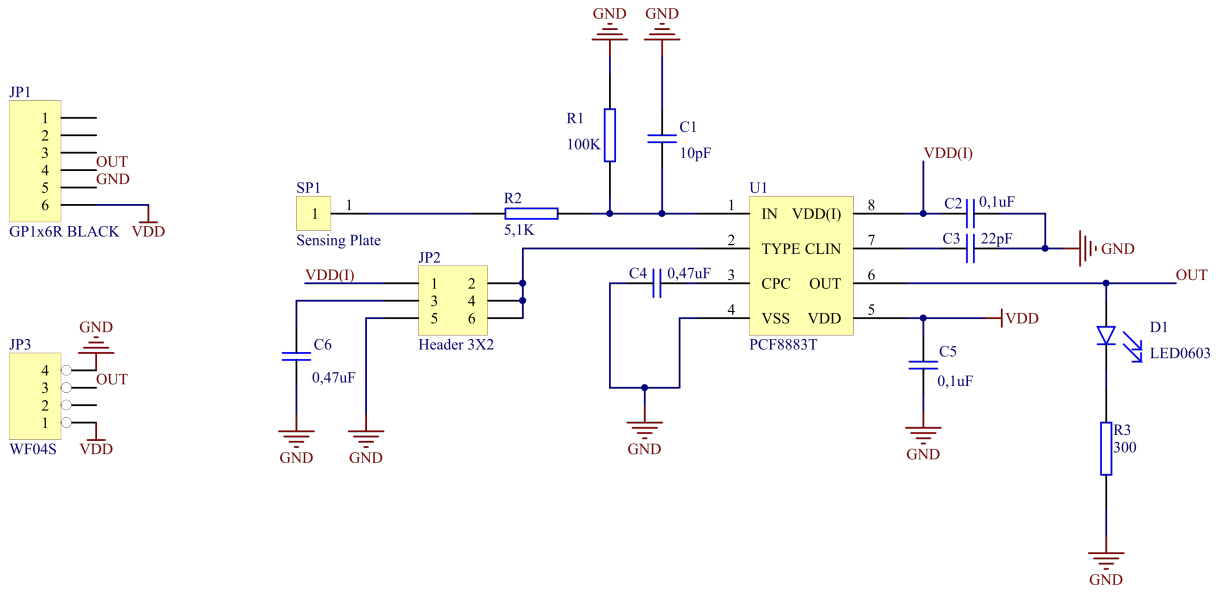
Basic features and parameters

- NXP PCF8883T chip
 - Dynamic proximity sensor
 - Wide input capacity range
 - Automatic calibration
 - Configurable operating mode (push-button, toggle, pulse)
 - Wide operating temperature range: -40oC to +85oC
- Probe area placed on the PCB
- Diode indicating the OUT output status
- Connector compatible with the Pmod GPIO standard
- Connector in accordance with the KAMAMI standard
- Built-in jumpers for selecting the operating mode of the system
- Possibility of supply with voltage from 3 to 9 V
- Mounting holes with a diameter of 2.5 mm
- Dimensions: 51.3 mm x 20.3 mm x 10 mm

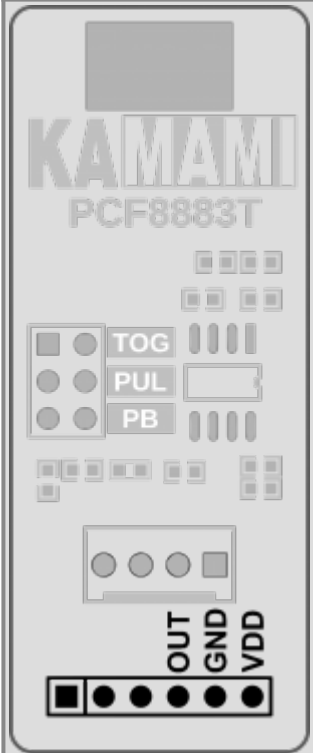
Standard equipment

Code	Description
KAmoPCF8883T	• Assembled and launched module

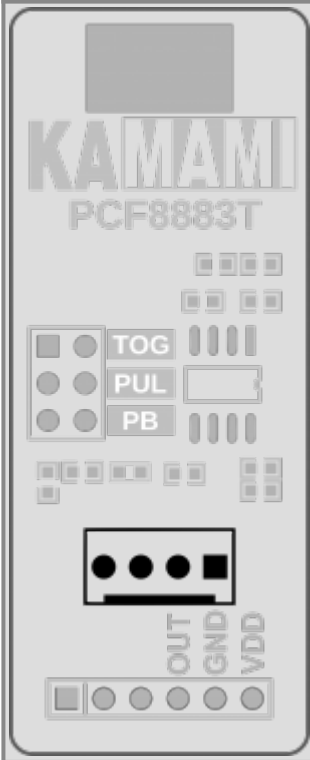
Electrical schematics



Output description - Pmod standard connector

	JP1	Function
6 (VDD)		Power supply
5 (GND)		
4 (OUT)		Digital output
3 -		-
2 -		-
1 -		-

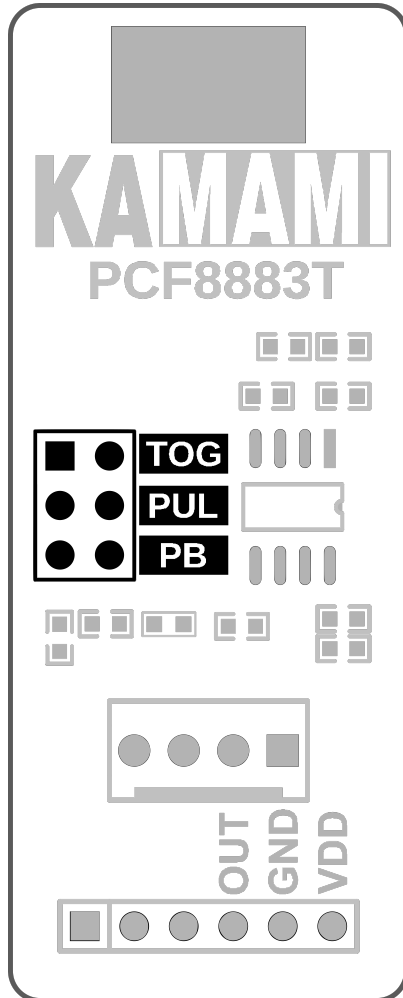
Output description - KAMAMI standard connector

	Pin number	Function
	1 (VDD_5V)	Power supply
	2 -	-
	3 (OUT)	Digital output
	4 (GND)	Ground

Choice of operating mode

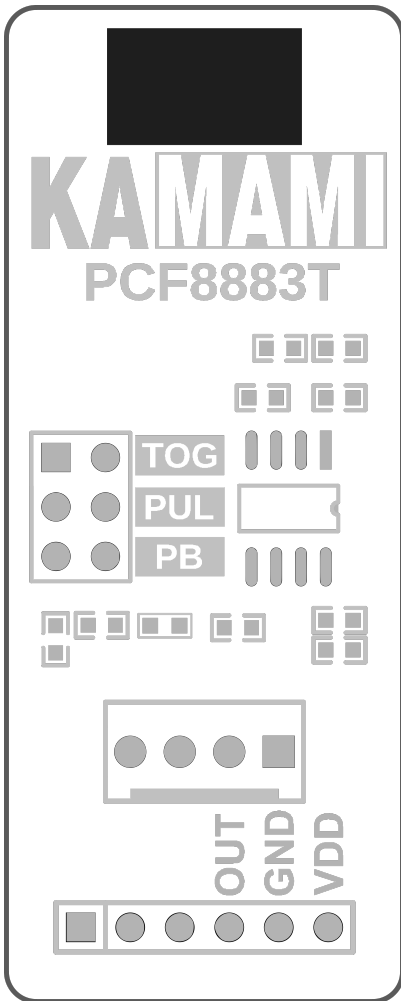
The KAmoPCF8883T module is equipped with jumpers enabling configuration of the chip operation mode. One of three jumpers may be on. Allows you to select the system operation in the mode:

- PB (Push Button) - the output is high as long as the probe event occurs
- PUL (Pulse) - the event is active for 1 second after the event occurs on the probe
- TOG (Toggle) - the occurrence of an event on the probe causes a change in the state on the output pin



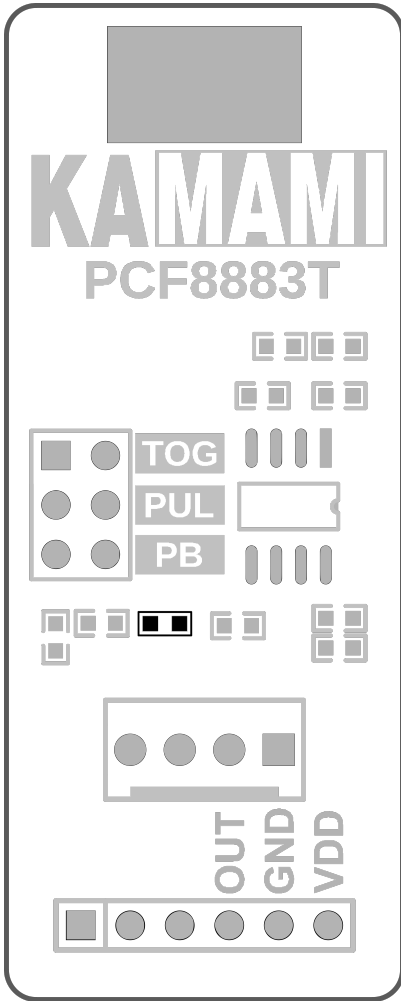
Touch probe

The KAmoPCF8883T module has a built-in 10 x 6 mm touch probe.

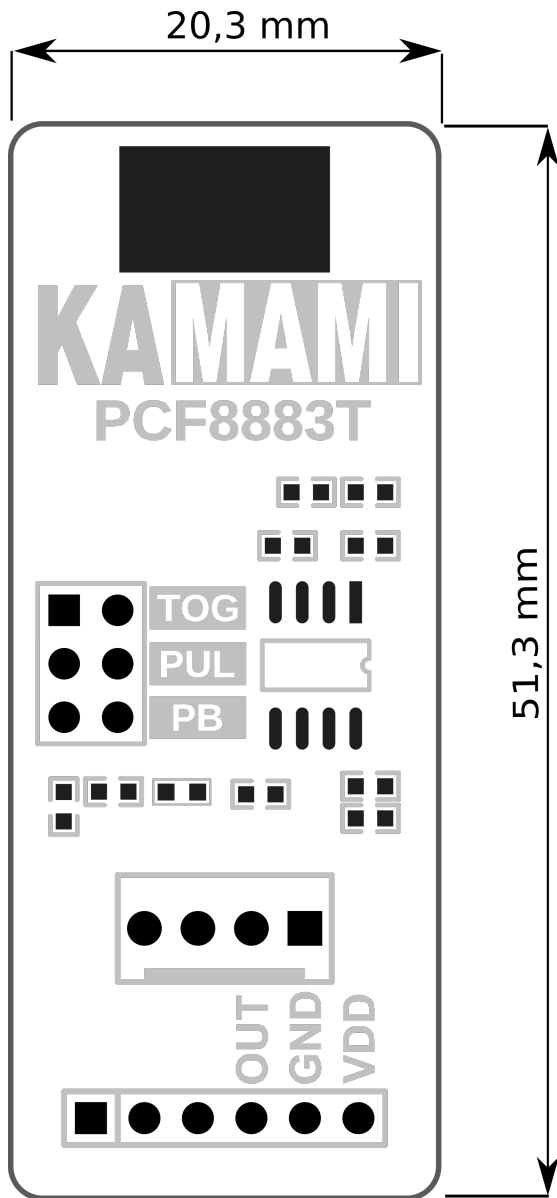


LED indicator

The KAmoPCF8883T module is equipped with a diode indicating the output pin status of the chip. It allows easy status reading and quick module diagnostics without the need to connect external circuits to the output pin.



Dimensions



External link

- [KAmodPCF8883T datasheet from NXP](#)



Zastrzegamy prawo do wprowadzania zmian bez uprzedzenia.

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