

MIB-PTP-E-200-53

Fast micro-bolometer for temperature measurement with Ethernet output

Texense sensors are designed for data logging. Should the users want to include this sensor in a closed loop system, they must undertake total responsibility from doing so.

IR temperature measurement			
Range	0 to +200		°C
Accuracy	See accuracy table		
Response time	20		ms
Sampling frequency	100		Hz
Resolution	0.1		°C
Warm-up time	2		min
Spatial resolution	80 x 60		pixels
Sensitive Element	Micro-bolometer matrix		
Wave Length	8 to 14		µm
Calibrator	ECN 100 N12 (e=1)		
Horizontal field of view	53		°
Vertical field of view	40		°
Lens protection	Replaceable Silicon Window		
Internal temperature measurement			
Accuracy	±0.5		°C
Resolution	0.1		°C
Ethernet bus			
Standard	100Base-Tx		
PTP synchronization	IEEE1588 PTP v2 (Hardware timestamping)		
Output transport layer	UDP or TCP (configurable)		
Configuration interface	Embedded webserver		
Recording			
Embedded storage	8		GB
Max frequency	100 TBC		Hz
Max duration	10Hz	23	min
	1Hz	4	h
Electrical features			
Supply Voltage	6 to 30		V
Supply Current (at 12V supply)	90		mA
Mechanical features			
Dimensions (without brackets)	65.8x26.2x21.6		mm
Material	Aluminum		
Weight (without brackets)	38		g
Environment			
Protection	IP65		
Vibration test	20Gpp 5'		
Shock	500		G
Operating Temp	-20 to +85		°C
Storage Temp	-40 to +125		°C

Date		Operator	
Customer			
Order			
Product Ref	MIB-PTP-E-200-53-###		
SW version	V#.#		

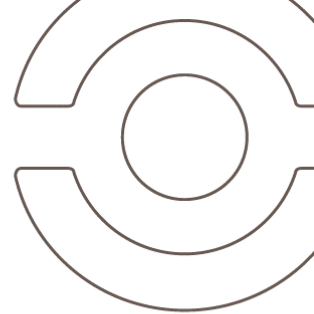
Connector: ASDD006-09PN-HE

Mating connector: ASDD60609SN-HE

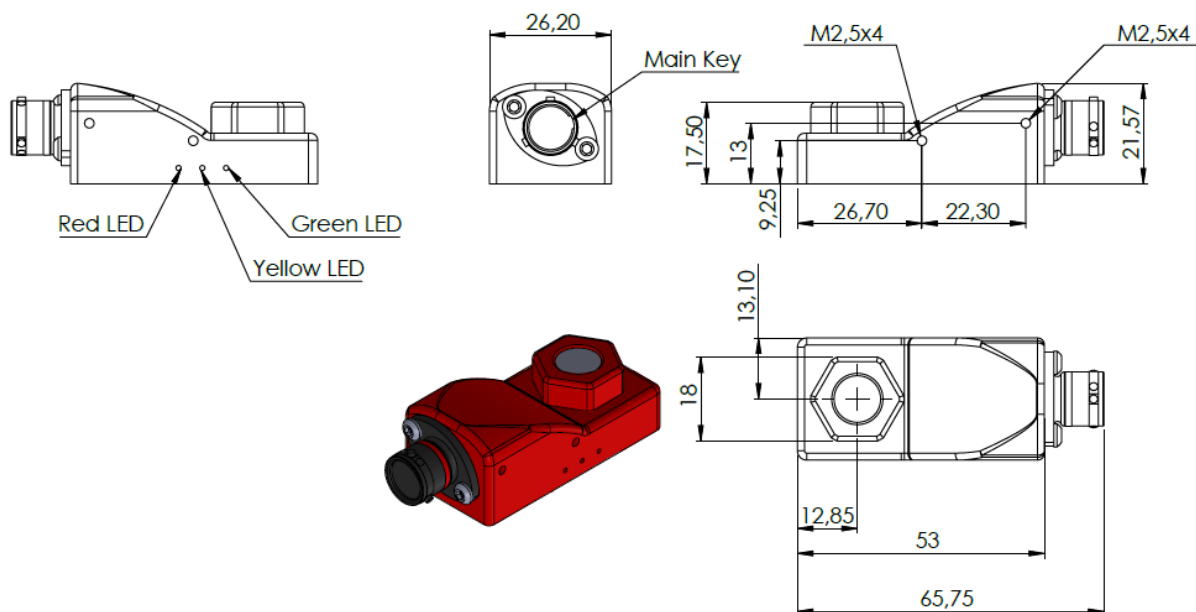
Pinout		
Function	Description	Pin
Supply	Supply	1
	GND	2
Ethernet	TX+	3
	TX-	4
	RX+	5
	RX-	6
Reserved	Reserved – Do not connect	7
	Reserved – Do not connect	8
PTP	PTP sync (TTL output)	9

Software setup	
IP address	192.168.0.1
Netmask	255.255.255.0
Gateway IP address	192.168.0.254
Output transport layer	UDP
Destination address	192.168.0.2
Destination port	5000
Output data rate	100 Hz

Sensor readings	
Target temperature	Average pixel readings
60°C	... °C
180°C	... °C



Mechanical drawing Sensor alone



Sensor with mounting brackets (provided)

