
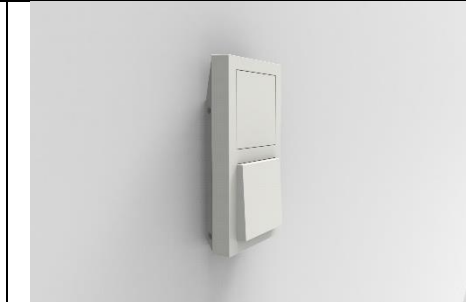




DATASHEET PIKK-SENSE MULTI SENSOR FAMILY

Built to Order – Overview – Oct. 2022

Sensor System			
Dimensions, Enclosure	140 x 75 x 30 mm, ABS, standard: white, IP20 (IEC 60659)		
Front Panel Concept	Modular system with 2 flexible inlet parts & latency free sensor addon on lower edge		
			
Power Supply (batteries)	4x Li 3.6 V (AA), up to 10.000 mAh	Sensors & data / principle	
Power Supply (external)	5 V DC, USB-C, cable outlet with strain relief, optional 5-36 V DC	Temperature, rel. humidity	
Environment	Indoor, +5..+40°C, non-condensing	Indoor air quality, gas	VOC, TVOC, eCO2, CO2, O2
		Motion detection	Passive infrared (PIR)
RF Options		Distance to object / obj. presence	Ultrasonic sensor, max. 4m
Baseline WiFi (2.4 GHz)	802.2.11 b/g/n: MQTT/TLS	True Presence	Infrared matrix detection system
Baseline BT (2.4 GHz)	BT 5 / LE	People counting (+/-/direction)	Infrared matrix detection system
Option NB (800/900/1800 MHz)	LTE Cat NB1/NB2: CoAP / LwM2M	Multi channel brightness / light	Daylight, R, G, B, IR, UV
Option LTE-M (800/900/1800 MHz)	LTE Cat M1/NB1/NB2: CoAP / LwM2M / MQTT	Fall detection of persons (G-Guard)	Infrared matrix detection system
Option EnOcean (868 MHz)	ISO/IEC 14543-3-10	Forehead temperature measurement („fever“)	Infrared matrix detection system
Option LoRaWAN (868 MHz)		<i>Acceleration</i>	<i>Shock, vibration, tamper, orient.</i>
Antenna (standard)	Integrated PCB antennas	<i>Noise</i>	
Antenna (external)	U.FL/IPEX connector available		
Configuration / FW update	Serial console (USB), WiFi, BT (GATT)	<i>Italic options to be specified, various options and parameters TBD. Contact manufacturer for higher accuracies or further sensors</i>	