

JUNO TH TECHNICAL DATA SHEET EN



The Juno IP67 TH is a versatile temperature and relative humidity sensor that uses mioty®, LoRaWAN® or cellular technologies such as NB-IoT and LTE-CAT-M1 for reliable and energy-efficient data transmission. Thanks to its robust design and IP67 rating, it is ideal for use in demanding environments and can withstand dust, water and high pressures.

VERSIONS

ARTICLE CODE	FEATURES
S-JUNO-LOEU-TH	JUNO IP67 TH sensor, temperature and relative humidity with tilt detection and opening detection LoRaWAN
S-JUNO-MIOTY-TH	JUNO IP67 TH sensor, temperature and relative humidity with tilt detection and opening detection mioty
S-JUNO-NB-TH	JUNO IP67 TH sensor, temperature and relative humidity with tilt detection and opening detection NB-IoT, LTE-CAT-M1
S-JUNO-IX-LOEU-TH	INDUSTRIAL JUNO IP67 TH sensor, temperature and relative humidity with tilt detection and opening detection LoRaWAN
S-JUNO-IX-MIOTY-TH	INDUSTRIAL JUNO IP67 TH sensor, temperature and relative humidity with tilt detection and opening detection mioty
S-JUNO-IX-NB-TH	INDUSTRIAL JUNO IP67 TH sensor, temperature and relative humidity with tilt detection and opening detection NB-IoT, LTE-CAT-M1



GENERAL PROPERTIES

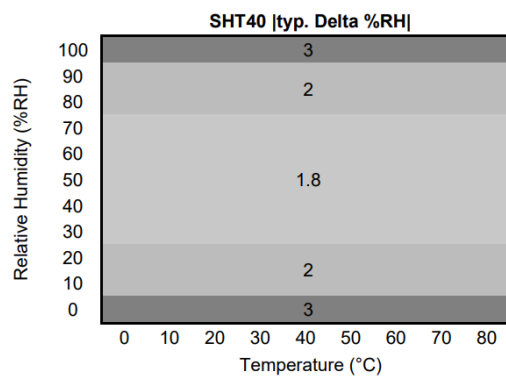
FEATURE	VALUE	UNIT
Dimensions lxbxh	86x86x25	mm
Weight	<200	g
Operating temperature	-25 to +75 (extended temperature range on request. Temperature range is limited by the maximum operating temperature of the primary cells)	°C
Maximum operating temperature Device	85	°C
Storage temperature (recommended)	15 to +30	°C
Rel. humidity during operation	5 to 99	%RH
IP Rating	IP67/IP65	
IK Rating	TBD	
Sensors	Temperature, relative humidity, acceleration sensor	
Traffic light function	no	
Audible alarm function	Yes, buzzer	
Provisioning	NFC	
Material	PBT GF20 + ASA	
NFC antenna	Integrated	
RF antenna	Integrated	
Accelerometer	Yes	
Batteries	Primary cell, replaceable, AA	
Primary cell type	LoRaWAN, mioty: 2 x 3.6V LiSOCl2(recommended SAFT LS14500) Cellular: 2 x 3V LiMnO2 spiral AA cell 2 x 3.6V LiSOCl2 spiral AA cell	
Housing color	S-JUNO-XXXX black S-JUNO-IX-XXXX silk gray	

CONNECTIVITY AND RF SPECIFICATION

CHARACTERISTIC	WORTH	UNIT
RF Standards		MHz
Frequency	868	MHz
LoRaWAN®/mioty® EU		
Mobile radio frequency	Band 8, 20 (900 MHz, 800 MHz)	dBm
Transmission power	14	dBm
LoRaWAN®/mioty® EU		
Transmission power NB-IoT	23	dBm
LoRa® mac layer version	1.0.4	

SENSOR SPECIFICATION TEMPERATURE

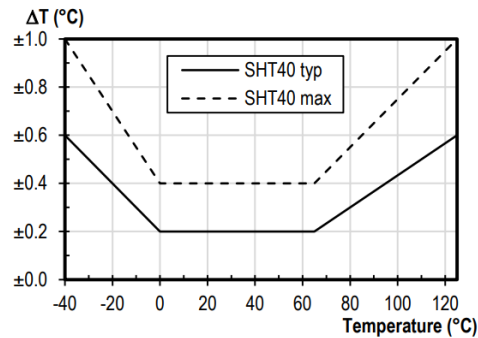
CHARACTERISTIC	WORTH	UNIT
Measuring range	-40 to +125	°C
Drift (long-term)	<0,03	°C/year
Accuracy	+/-0,2	°C
Resolution	0,1	°C
Repeatability	0,2	°C



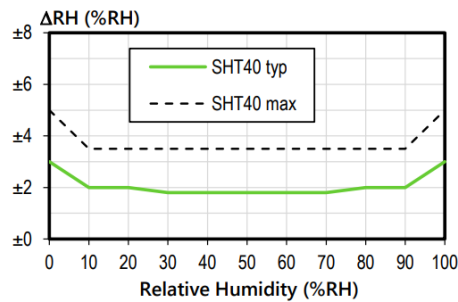
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SENSOR SPECIFICATION REL. HUMIDITY

CHARACTERISTIC	WORTH	UNIT
Measuring range	0 to +100	%RH
Drift (long-term)	<0,25	%RH/year
Accuracy	+/-1,8	%RH
Resolution	1	%RH
Repeatability	0,25	%RH



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HT_DS_Datasheet_SHT4x_5.pdf

More accurate temperature sensors available on request.

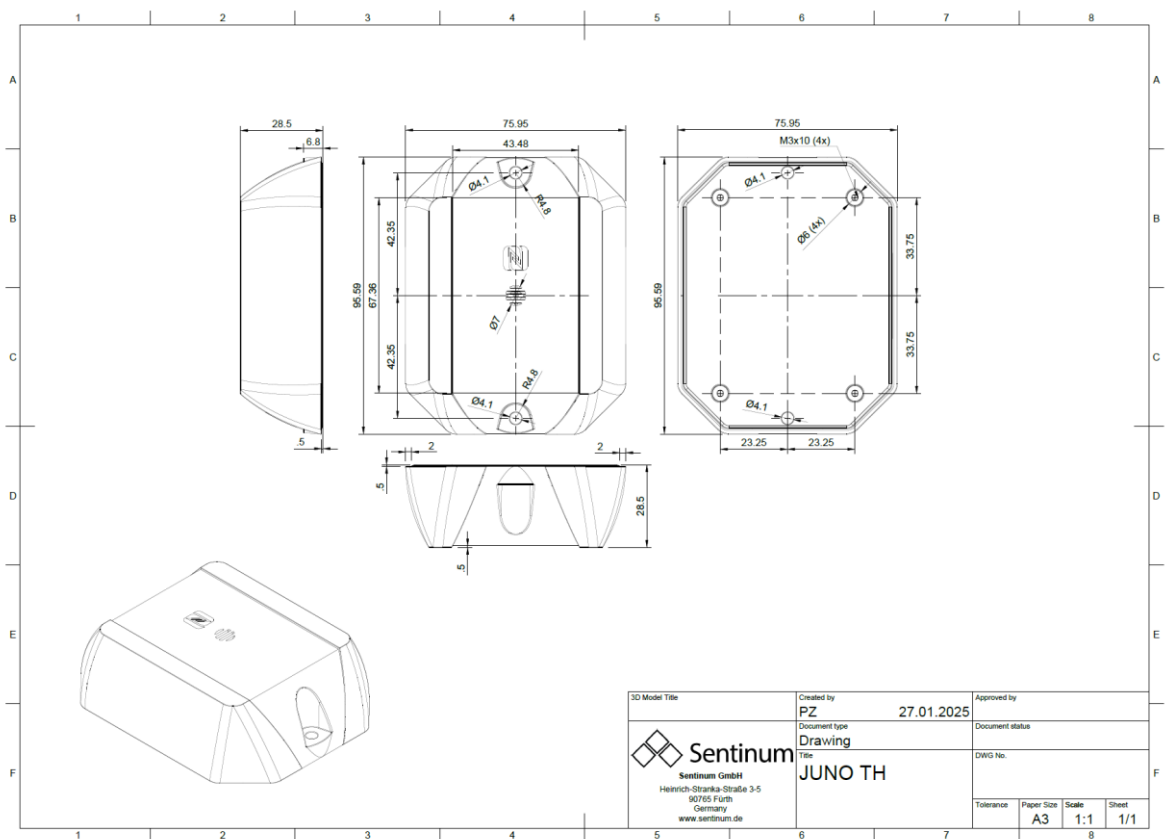
SENSOR SPECIFICATION INCLINATION

CHARACTERISTIC	WORTH	UNIT
Measuring range	0 to 360	°
Accuracy	+/-2°	°
Triggering in low power mode for opening detection	+/-60	°

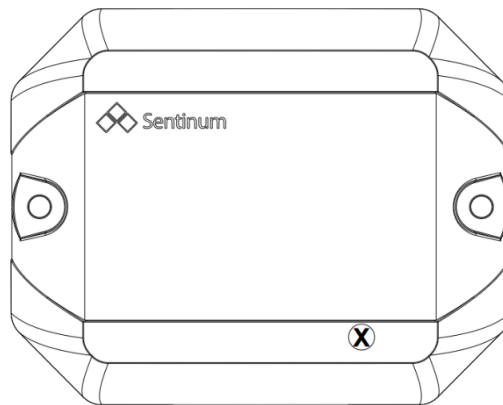
SENSOR SPECIFICATION TEMPERATURE ACCELERATION SENSOR

CHARACTERISTIC	WORTH	UNIT
Measuring range	-40 to +85	°C
Accuracy	+/- 0,8	°C

TECHNICAL DRAWING



POSITION MAGNETIC SWITCH



ORIENTATION OF THE AXES ACCELERATION SENSOR

