

SmartSole

	Performance features	Technical data
Product description		
Housing	TPU/epoxy resin/aramid	
Communication technologies	GSM/GPRS/LTE-M/NB-IoT/BLE	
Radio frequencies	850/900/1800/1900/1575/2400 MHz	
Geolocalization	GNSS multi-constellation 72 channels, sensitivity -166 dBm	
Connectivity	Multioperator-SIM	
Operating temperature	up to 50°C	
Software updates	FOTA (Firmware Update Over the Air)	
Security	TLS	
Measurements	Width 5 cm Height 0,7 cm Length 12 cm Weight 80 g (electronic module only) Weight 130g (module and sole)	
Electromagnetic compatibility (EMC)	The electronic module meets the requirements of the European directives for short-range transmitters.	Radio Equipment Directive (RED) 2014/53/U Low Voltage Directive (LVD) 2014/35/UE Electromagnetic compatibility (EMC) Directive 2014/30/U
Environment	Special waste treatment may be required. For further information, please contact your local authorities. The charger can be dismantled for material recovery.	  
Mobile radio	2G GPRS radio modem 4G LTE Cat M radio modem Bluetooth 5.1 Low Energy - Long Range 2.4 GHz modem Multi-constellation GNSS with 72 channels Integrated BAN (Body Area Network) antennas for proximity to the human body Electromagnetic compatibility (CE standard)	Band EGSM 900MHz -> power class 4: 33dBm, Rx sensitivity: -107dBm Band DCS 1800MHz and PCS 1900MHz -> power class 1: 30dBm, Rx sensitivity: -107dBm B3, B8, B20, B28 bands -> power class 5: 21 dBm, Rx sensitivity according to the bands: B3: -105 dBm, B8: -106dBm, B20: -105dBm, B28: -107dBm Maximum transmission power 5mW GPS, Galileo, Glonass, Baidu. Rx sensitivity: -166 dBm
SIM card	Integrated multi-carrier M2M SIM card for GSM communication; European coverage, global coverage as an option	
Geolocalization	Outdoor Indoor GDPR	Assisted GPS, multi-constellation GNSS XSpot TRAXxs beacons Transmission of the individual positions only in the event of an alarm
Battery	Built-in Li-Ion battery Inductive charging (Qi)	680mAh (2.51Wh) capacity
	Battery life	10 hours uninterrupted
Temperatures	Utilization Loading	-20°C to +50°C +0°C to +40°C
Water	Waterproof and dustproof	IP68

Subject to change without notice