SWISSPHONE TRIO

Highest protection for lone workers, fastest intervention in the event of accidents

The Health and well-being of employees is a top priority for companies and organisations: Employees have to receive immediate help in the event of an accident and they have to be immediately notified in the event of an emergency. With its manual and automatic alerting functions, the various positioning possibilities (GPS and/or beacons via BLE) and the hybrid emergency call transmission via mobile radio, the SWISSPHONE TRIO meets the highest demands of a personal security device, even when the workplace is isolated, or in a remote location. Even when the workplace is isolated and in a remote location.

Range of application

- Inspection rounds (e.g. in power plants, sewage plants, dumps, etc.)
- Standby duties (e.g. service technician)
- Automated production facilities, storage rooms, cellars
- Forestry, tunnel and road building
- Security enterprises, care assistants, judiciary employees
- Facility Management

Key features

- Manual alerting function:
  - Emergency button
- Automatic alerting functions (option):
  - Fall detection
  - Man down detection
  - Autonom-Lifecheck
  - Remote-Lifecheck
- Position determination:
  - Outdoor (GPS)
  - Indoor (position beacon)
  - Onsite (combination of both)
- Emergency call transmission via mobile phone: Mobile data and / or SMS
- Messages received via Public or Private Paging Networks
- False alert prevention: Keypad lock feature; pre-alert

According to DIN VDE 0825-11

The Swissphone TRIO lone worker device features a function test and device monitoring in combination with the SOS portal, according to DIN VDE 0825-11, which is one of the strictest globally respected standards.

connect

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	Performance features	Technical Data
Emergency call functions	Manual alerting function	• Emergency button
	Automatic alerting function	• Fall detection • Man down detection • Autonom-Lifecheck • Remote-Lifecheck
Standards, compliance and environmental conditions	Standards	ETSI EN 300390 (Radio: Receiver) EN 62368-1 (Saftey) EN 62209-2 (SAR) EN 301489-1 /-2 / -17 / -52 (EMC) EN 60068-2-6 (Vibration) EN 60068-2-27 (Shock) EN 60068-2-31 (Drop 1.5 m) EN 60529 IP52* ETSI EN 300328 (Radio: 2.4GHz ISM) ETSI EN 301511 (Radio: cellular) ETSI EN 301908 (Radio: UMTS) *IP54 ensured with leather carry bag
	Temperature range	-20 to +55 °C, cellular module (-10 to +55 °C)
POCSAG basic module	Frequency areas	VHF 2-m band 146-155 / 155-164 / 164-174 MHz UHF 70-cm band 450-470 MHz
	Frequency processing	PLL, frequency adjustable via programming software: • VHF 2m: whole sub-band (9/10 MHz) • UHF: up to ±1.0 MHz
	Channel spacing	12.5, 20/25 kHz
	Sensitivity*: *typical value at 2 m UB (best position on „salty man"), GSM = off	@ 512 bit/s 3.0 µV/m @ 1200 bit/s 3.5 µV/m @ 2400 bit/s 4.0 µV/m
	Signal strength indicator (RSSI)	5 bar display. More bars means stronger signal
	Cap codes	• 32 Cap codes (RICs) with 4 sub-addresses each, frame independent, or • 128 single addresses (any combination of RIC and SubRIC) • 128 RIC names with 8 characters
	Alerting	• Acoustics > 88 dB(A) @ 30 cm distance • Vibration • Bright display • Up to 64 user profiles or selectable RICs
	Messages	• Over 100 messages of up to 253 characters • 128 fixed texts with 32 characters each can be stored • Up to two additional message folders • Pin secured message storage
	Supports	• Express-Alarm® • On-Air-Programmierung
Display and case	Display	• Fully graphical display • White backlit • Several different font sizes (lines x characters: 3x16, 4x21, 5x21 or proportional font size)
	Dimensions (H x W x D)	80 x 53 x 24 mm
	Weight (incl. battery)	110 g
Power management	Type of battery	Lithium polymer; 550 mAh (charger included)
	Operating time	POCSAG/GSM/GPS = approx. 12 to 16 hours
Cellular module	Frequency bands	2G/3G: 900/1800/2100 MHz (UTRA band 1, 3, 8) 2G/4G: 800/900/1800 MHz (UTRA band 20, 3, 8)
	Connectivity	2G/3G: 3GPP Rel, 7 - SMS, GPRS, EDGE, UMTS, HSPA+ 2G/4G: 3GPP Rel. 13 - SMS, GPRS, EDGE, LTE Cat. M1 (LTE-M)
	Network identification	SIM card (mini)
GPS module	Channels	50
	GNSS-System	GPS
	Sensitivity in tracking mode	-162 dBm
	Time to first fix	Cold: 30 sec, assisted: 3 sec, hot: 1 sec
	Current time and date	UTC synchronization via GNSS
Sensors	Emergency detection sensors	3-axial
Options	Basic Protected Connected BGR-139	Connected if needed, just manual alerting function Connected if needed, automatic alerting functions, functional test Permanently connected (GPRS), status messages Permanently connected (GPRS), status messages, BGR-139

Specifications subject to change

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