Mobile Transceiver

Features

- Wireless call unit which can be worn on the wrist or around the neck as a pendant.
- Large call button and call reassurance LED.
- Waterproof: IP67 ingress protection.
- Lockable wrist strap to prevent removal.
- Removal detection with automatic alarm (Wrist strap version).
- Customizable through interchangeable buttons, rings and loops in various colors.
- 869MHz (EU) or 916-921MHz (US) full duplex RF communication with a minimum range of 30 meters / 98.5 feet.
- NITX-BAA includes a 125 kHz LF receiver for call cancellation and location determination.
- Recurring heartbeat message to identify failure or out of range detection.
- Different call levels, including cancel with acknowledged alarms.
- Through-air programmable parameters.
- Replaceable battery and low battery alarm.
- Compatible with teleCARE IP location based speech.

Description

The NITX mobile transceiver is a wireless call unit for residents. It is used in the teleCARE IP system and in Ascom systems for independent living.

The NITX (AAA and BAA) contains a 869 MHz (EU) or (AAB and BAB) 916-921 MHZ (US) RF transceiver, a call button and a reassurance LED. The NITX-BA(A/B) also includes a 125 kHz LF receiver used for call cancellation using a staff transmitter and for location determination using LF beacons.

Each NITX mobile transceiver has a unique ID which is transmitted with every event.

A normal call is activated by a short press on the button, an assistance call is activated by pressing the button for longer than 3 seconds. A call can be cancelled remotely by a teleCARE IP wired 3 button unit (Doorside module), a portable messaging device, a staff transceiver or by one long press followed by three short presses on the button of the mobile transceiver within 3 seconds.

The NITX is powered by a 3 volt lithium replaceable battery. The battery voltage is continually monitored and if falls below 2.4V a “low battery” alarm is transmitted.

The NITX has a set of connections on the printed circuit board that can be used to connect a normally open potential-free external alarm contact.

The NITX comes with a wrist strap so it can be worn around the wrist like a wrist watch. Alternatively, a pendant holder with a lanyard is available which allows the NITX to be worn around the neck. The wrist strap and pendant with lanyard are available as accessories which can be ordered separately.

The NITX body can be customized with interchangeable rings, buttons and strap loops available in a variety of colors. The four rings and six buttons including a ring mounting tool are available as customization kit. Four colored strap loops and a locking fastener are available as an accessory kit.

The NITX is waterproof (IP 67) so it can be worn in the shower and in the rain.

Technical Specifications

Markets:		**EU**	**US**	**UK**	**ANZ**
Item number:	**NITX-AAA**: RF	•		•	
	NITX-BAA: RF & LF	•		•	
	NITX-AAB: RF		•		•
	NITX-BAB: RF & LF		•		•
Dimensions (W x H x D)	Wrist strap: 65 x 40 x 14.9 mm / 2.56 x 1.57 x 0.59 inch				
	Pendant: 78.4 x 41.8 x 15 mm / 3.09 x 1.65 x 0.59 inch				
	Spring bars: Ø 1.8 x 18 mm / Ø 0.07 x 0.71 inch				
Materials:	Casing: PC/ABS Ring and button: ABS-Polylac Wrist strap: Silicone Polysil (medical grade) Buckle: Stainless steel				
Color:	Casing and wrist strap: NCS 8502-B (Black)				
Weight:	Wrist: 39 g				
	Pendant: 33 g				
Battery:	Lithium 3V / 600mAh (type CR2450 or equivalent)				
Battery life:	1 year approx. (at 50 call cancel actions per day)				
RF transmission frequency:	869.2125MHz	•		•	
	916-921MHz		•		•
RF Output power:	+6dBm				
RF transmission range:	Minimum 30 meters / 98.5 feet				
RF ID:	Up to one million unique ID codes.				
LF receiver frequency:	125 kHz (NITX-BAA and NITX-BAB only)				
External alarm input:	Solder contacts on pcb for a normally open potential-free contact				
Environment:	Operating temperature: 0°C to 40°C / 32°F to 104°F Storage temperature: -25°C to 55°C / -13°F to 131°F Relative Humidity: 30 to 85% (non condensing) Enclosure protection rating: IP67	•		•	•
Environment: (UL 2560 installations)	Operating temperature: 10°C to 49°C / 50°F to 120°F Storage temperature: -25°C to 55°C / -13°F to 131°F Relative Humidity: 0 to 95%, non condensing at 40°C / 104°F Enclosure protection rating: IP67		•		

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Markets:		EU	US	UK	ANZ
Regulatory Compliance EU/EFTA	 VDE 0834 RoHS 2011/65/EU and Radio Equipment Directive 2014/53/EU Complies with the relevant dates and amendments of the following EN standards (the valid references to dates and amendments are stated in the Declaration of Conformity): EN 301 489-1 EN 301 489-3 EN 300 220 EN 300 330 EN 60950-1	•		•	
Regulatory Compliance US/CAN	 ANSI/UL 2560 CAN/CSA C22.2 No. 205 FCC part 15C RSS 210		•		
Regulatory Compliance Australia / New Zealand	 AS 3811				•
Chemical durability:					
Chemical durability:	Mobile TX with all devices shall withstand contact with 85% ethanol, 3% Hydrochloric acid and 60% Chlorhexidin 0,5mg/ml Oleic acid (from skin cream)				

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Accessories:					
Customization kit:	**660422**				
Rings:	■ NCS 8502-B (Black) ■ NCS 4502-B (Light gray) ■ Silver □ NCS 0500-N (White)				
Ring mounting tool:					
Buttons:	■ NCS 8502-B (Dark gray) ■ Silver □ NCS 0500-N (White) ■ NCS 2570-R (Red) ■ NCS 5040-G20Y (Green) ■ NCS 2070-Y50R (Amber)				

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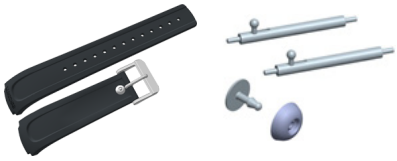
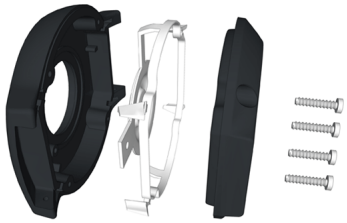
Markets:		**EU**	**US**	**UK**	**ANZ**
Accessory kit:	**660425**				
Loops: (Including strap locking fastener)	 NCS 2070-Y50R (Amber) NCS 2060-R40B (Purple) NCS 1050-G60Y (Blue) NCS 0575-G60Y (Yellow) NCS 8502-B (Black)				
Spare Parts:					
Wrist strap: (Including 2 spring bars and a strap locking fastener.)	**660423** Black NCS 8502-B 				
Screws Torx:	**660427** (kit of 20 pieces) ***Note:*** *A special screwdriver (T3) or bit (IP-3) is required.*				
Pendant and lanyard:	**660421** Black NCS 8502-B 				
Replacement housing: (Including 4 x Torx screws and gasket).	**660424** Black NCS 8502-B 				
Battery:	**660426** CR2450 				

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