Tyro Indus/Gemini Wireless Emergency Stop - 868 MHz

Manual

Gemini receiver functionality

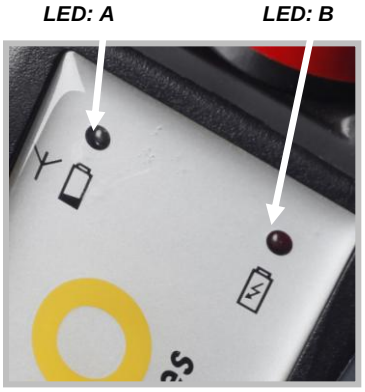
As long as the Indus transmitter is active and is within the range of the Gemini receiver, the relays are switched on. If the button on the Indus transmitter is pressed, the relays in the Gemini receiver gets switched off. Also when the transmitter is out of range, the relays get switched off.

In that case, the Indus transmitter would have to be first turned off and 3 seconds later (within the range) would have to be turned on again which consequently would turn the relays in the Gemini receiver on.

Fault detection
There is a continuous monitoring of the status of the relays. If a disturbance occurs due to a failure in relays in the Gemini receiver such as not getting switched on or not getting switched off as required then the whole relay system shuts down. In that situation, the red status LED (depending on which relay fails) would flash 2x or 4x times slowly. In order to activate the receiver now, the power supply must be turned off and on. Then the status of the relays is rechecked.

Indus transmitter functionality

Activating the Indus transmitter: pull the Red emergency stop. The left status LED on the transmitter would flash green.



Deactivating Indus transmitter: press the Red emergency stop.
As the 'out' signal takes about 2 seconds to transmit , the LED (A) will be flashing/blinking in the meantime for 2 seconds.

Empty battery indication
When the battery gets empty, the left staus LED (A) would start flashing Red. At this moment 10% of the battery life is still remaining. The transmitter should any way be recharged at the end of the day.
The connection for the charger is attached to the back of the Indus transmitter above the belt- clip. (see picture)

Once the transmitter is connected to the recharger, the Red LED would light up until the battery gets full.

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Mounting

To optimize the range of the Indus transmitter, it is recommended to place the antenna of the Gemini receiver as high as possible without obstructing metal objects. After connecting and mounting the receiver, it is recommended to test the device before connecting it to the main power source. The Gemini receiver should always be connected after the main fuse.

Cable scheme is as follows:

Discription	Connectornumber
CC of Emergency stop relays	C1
NO of Emergency stop relays	Q1
GND	V-
8-38Vdc	V+

The connections C1 en Q1 of the redundant emergency stop relay must be connected to the already existing emergency stop series. This system is an add on to the existing emergency stop facility.

Please note: All systems are already programmed at the factory.

Programmeren van een nieuwe Indus zender op de Gemini ontvanger

Indien u een nieuwe Indus zender op de Gemini ontvanger wilt programmeren, doe dit dan als volgt:

Stap	Discription
1.	Make sure that the Gemini receiver is very well installed
2.	Keep the white button pressed for a **maximum 2 seconds** when supplying power to the Gemini receiver. (If the white button is pressed for longer then 5 seconds, the transmitter will be erased from the system)
3.	The status LED on the Gemini receiver will now light up
4.	Pull the emergency switch of the Indus transmitter
5.	The status LED on the Gemini receiver will start flashing and the relays are switched on
6.	Switch off the Indus transmitter (press down the emergency stop button)
7.	De Indus transmitter is now programmed for the Gemini receiver. Once the Indus transmitter is switched on, the relays will also get switched on.

Only one Indus transmitter can be programmed for the Gemini receiver simultaneously.

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e4

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Technical specifications:

Gemini Receiver	
Power supply	8-38 Vdc / 230Vac optional
Fuse	1 A fuse 20x5 mm
Power consumption	15 mA
Max. output Amps	8A
IP classification	IP66

Indus Transmitter	
Range	Up to 350 meters
Frequency	868 MHz
Antenne	Integrated
Power consumption standby	2 µA.
Power consumption during transmission	5 mA (max.)
Low battery indication	If the LED flashes red, recharge the battery
Battery type	Batterypack AAA 3,6V 750 mAh NiMh
Battery life	150 uur
Impact resistent	Max. 2 meters
IP classification	IP65 (splash and waterproof)

Standard delivery includes:

- Indus transmitter with an emergency stop and belt-clip
- Inc. Batterypack AAA 3,6V 750mAh NiMh
- Gemini receiver with antenne 868 MHz.
- 230V recharger or 12V/24V charging coil cord (optional)

Extra options:
Antenna extension cable including connector: 1, 2 and 5 meter.

Dimensions:

Indus transmitter	120x60x30.
Gemini receiver	160x150x60.

Weight:

Indus transmitter:	189 gram.
Gemini ontvanger:	508 gram.

All deliveries will be subject to our general sales conditions, available on demand or through our website. Our products are certified for many applications. When mounting, always take into account the applicable machine directives.

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e4