

# ZIZTEL TCA-01X-EX

## TELEPHONE COUPLED ALARM DRIVER



DS-106 Issue 04

Thank you for your interest in Ziztel - we are a UK based manufacturer of PAGA and Intercom products. Our systems are mainly designed for use in the Hazardous Oil, Gas and Petrochemical industries.

The Ziztel TCA-01X is an alarm unit which is designed to control and manage a warning sounder and flashing beacon array. Typical applications include telephone ringing alert in a high noise ambient or a self-contained general alarm system for un manned offshore and pipe line installations.



### ZIZTEL TCA-01X-EX TELEPHONE COUPLED ALARM DRIVER

*Up to 115dBA output sound pressure level per horn*

*Strident 1.2 kHz warble alert tone  
frequency/cadence*

*Can drive multiple devices for greater coverage*

*ATEX certified Zone 1 IIB+H<sup>2</sup> Hazardous Area*

The TCA-01X-Ex comprises of a compact light weight explosion-proof enclosure which houses a 100V line horn driver amplifier, flashing beacon switch and ringing voltage triggered control circuitry. An optically coupled input allows direct connection to an analogue telephone subscriber pair which then detects ringing voltage, the control circuitry initiates the telephone alert tone and activates the flashing beacon/sounder switch. The alert tone frequency and cadence is pre-selected to maximize efficiency from the attached horn speaker.

The TCA-01X-Ex can drive multiple explosion-proof reentrant horns and visual alert flashing beacons enabling effective coverage over a wide area of a noisy industrial site.

The TCA-01X-Ex is fitted with field cable terminal sets, which eliminate requirement for external junction boxes, and allow simple cost effective installation:-

- Gland entry 1 Telephone line in
- Gland entry 2 Telephone line out
- Gland entry 3 Supply in (A local AC supply is required)
- Gland entry 4 Sounder drive out
- Gland entry 5 Beacon drive out

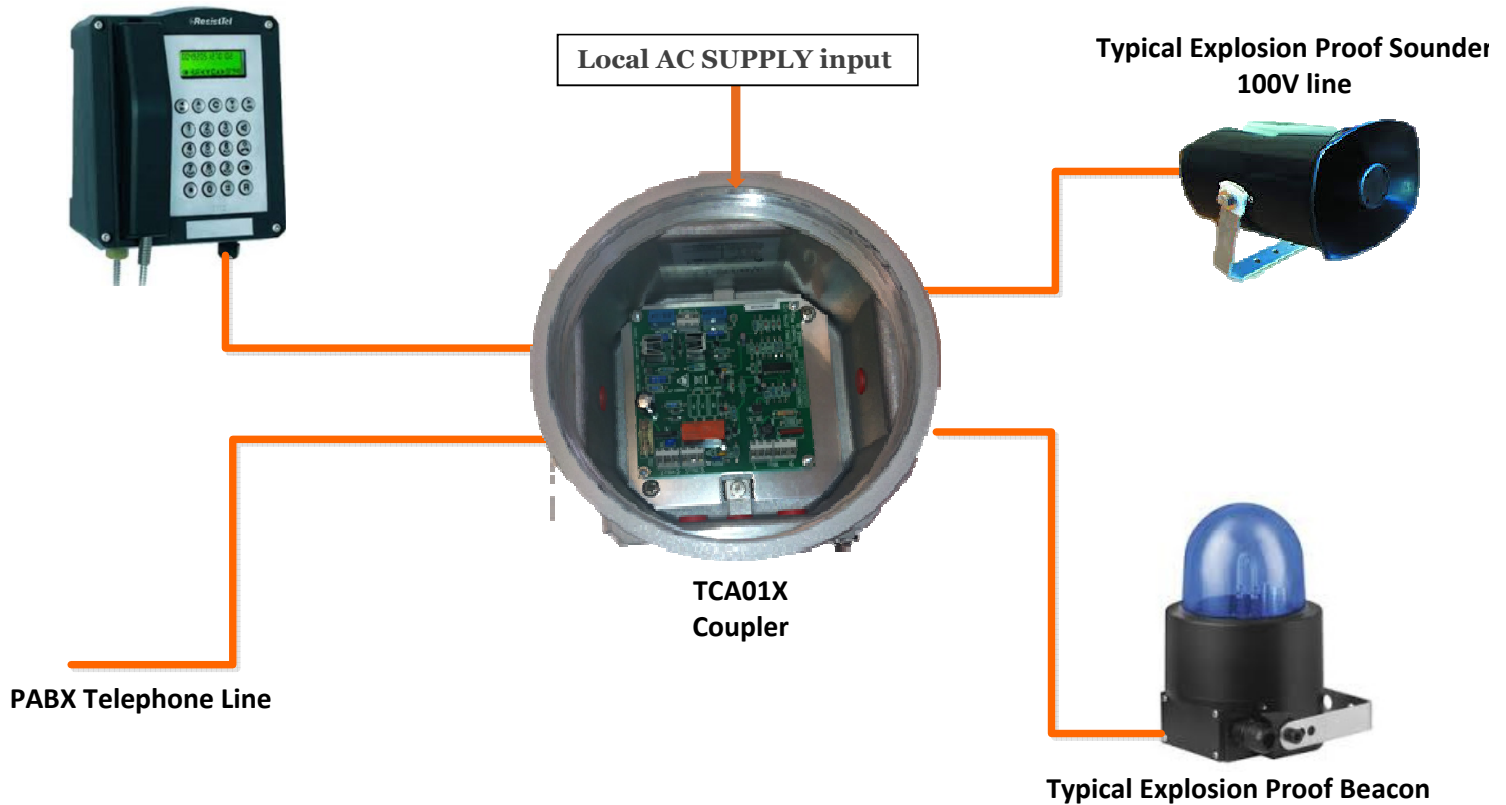
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- The unit is energized from **local AC supply** and is delivered for 110/120Vac or 220/240Vac 50/60Hz operation depending on client specification at time of order placement.

### Typical Explosion Proof Telephone



### Technical Specification

Supply input	110/120Vac or 220/240Vac 50/60Hz - Voltage to be specified with PO.
Consumption	Up to 150VA depending on number of beacons/sounders attached
Output 1	Switched supply to flashing beacon
Output 2	Alarm tone sounder 100V line
Input	Optically coupled telephone ring voltage 20Vrms to 100Vrms 10Hz to 1kHz
Maximum load	20Watts speaker horn output 130VA Flashing Beacon output
Temperature Range	-20°C to + 60°C
Humidity	Up to 100%
IP Rating	IP66
ATEX Certification	Zone 1IIC T4
Weight	2Kg
Dimensions	220mm x 220mm x 160mm
Finish	High grade paint to offshore standard etch prime
Material	Marine grade alloy
Gland Entry	20mm isometric x 5 (3 x entries in base, 1 x entry in each of two sides)

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