Model: **TCM-ITC906EX** · ATEX Ex d e IIC T6 Gb

Explosion Proof IP Intercom



Ex d e IIC T6 Gb

Description

The TCM-ITC906EX is an explosion-proof SIP intercom built into a corrosion-resistant, vandal-proof die-cast aluminium enclosure. Its magnetic door cover keeps dust and moisture out completely, extending the product's service life and ensuring reliable, stable operation in harsh environments. It is suited to high-speed rail, subways, tunnels, ports and docks, airports, mining, the oil and gas industry and other hazardous sites.

ATEX	IP66	SIP	PoE
Ex d e IIC T6 Gb	Dust & weather-proof	G.711 · G.722	802.3af/at · 12 VDC

Product Views



Front, door open



Angled view



Door closed

Features

- 100BASE-TX RJ-45 network interface
- Compliant with the SIP communication protocol
- Powered by 12 VDC or PoE IEEE 802.3af/at
- IP66 dust and weather-proof protection
- Full-function keypad: dialing, hands-free, call forwarding
- Autodial memory button for one-touch calling
- Anti-tamper screw protection
- Rugged die-cast aluminium enclosure with magnetic door
- Explosion-proof protection: Ex d e IIC T6 Gb

Applications

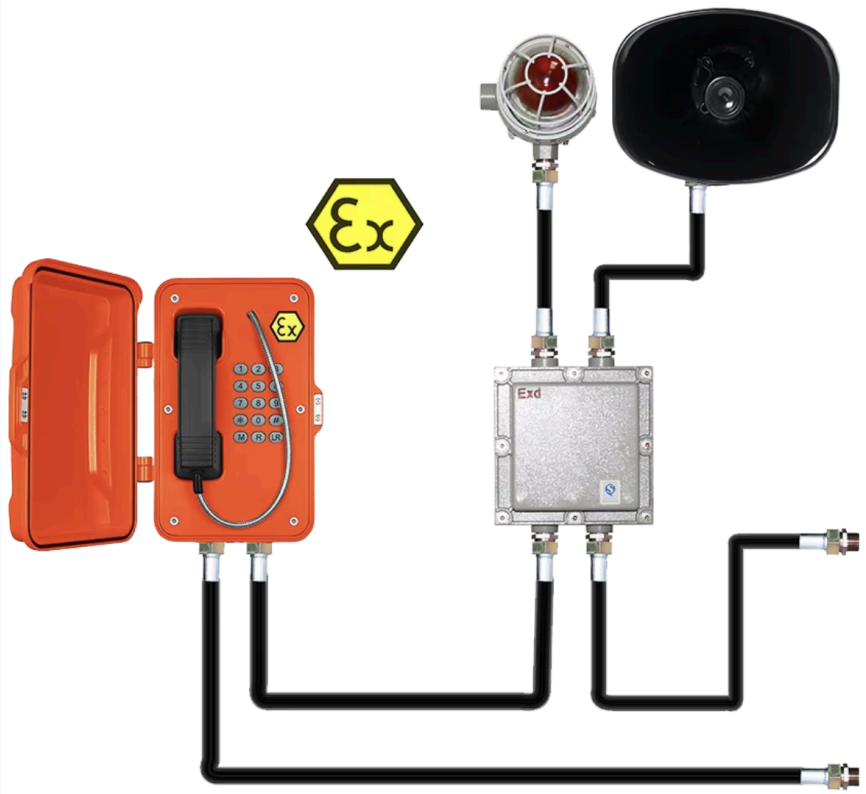
High-speed rail · Subways · Tunnels · Ports & docks · Airports · Mining · Oil & gas · Hazardous industrial sites

Specifications

Model	TCM-ITC906EX
NETWORK & COMMUNICATION	
Network	WAN 100BASE-TX, Auto MDI/MDI-X, RJ-45 connector
Network Protocol	TCP/IP, UDP, Multicast, SIP, RTP, RTCP, ARP, ICMP, IGMP
Audio Codec	PCMU (G.711u), PCMA (G.711a), G.722
AUDIO & OPERATION	
Operation	Full-function keypad for dialing with autodial memory button
Audio	Condenser microphone & speaker
Speaker	1.5 W, 8 Ω
Ringer SPL	90 – 95 dB(A) at 1 m
Frequency Response	20 Hz – 20 kHz (±3 dB)
ENCLOSURE & ENVIRONMENT	
Material	Die-cast aluminium alloy casing with magnetic door
Protection Level	IP66 dust and weather-proof
ATEX Explosion-proof	Ex d e IIC T6 Gb
Operating Temperature	-25 °C to +70 °C
Working Humidity	10% – 95%
POWER & PHYSICAL	
Power Supply	PoE IEEE 802.3af/at or 12 VDC
Power Consumption	Idle: 1.5 W · Active: 1.8 W
MTBF	More than 50,000 hours
Dimensions (H × W × D)	356 × 273 × 138 mm
Net Weight	7 kg

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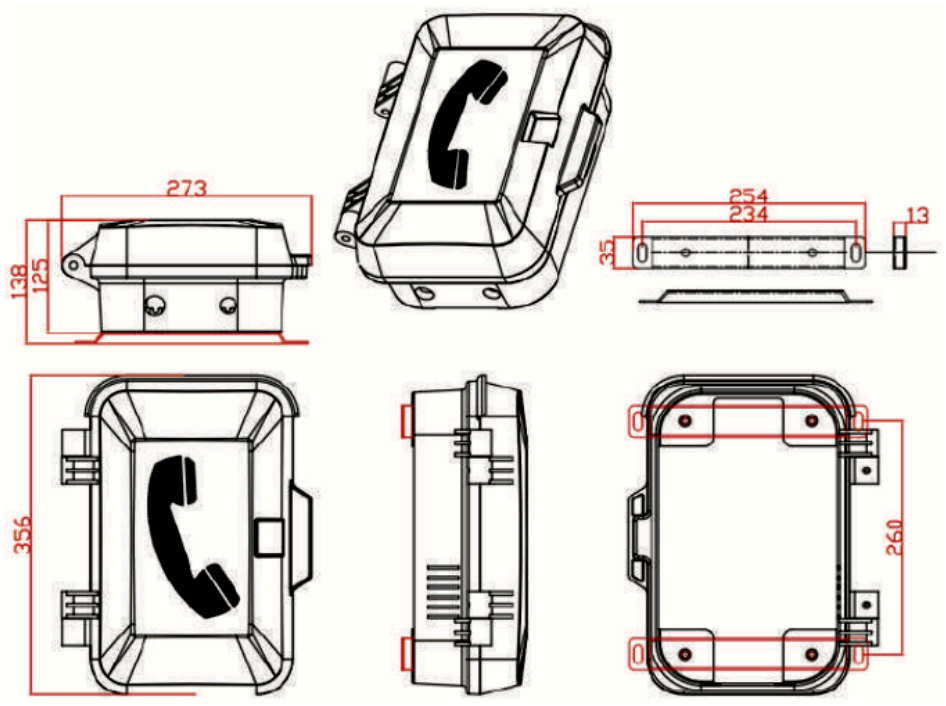
Installation Topology



1. **TCM-ITC906EX**
   Explosion-proof SIP intercom, Ex d e IIC T6 Gb
2. **Exd junction box**
   Flameproof box joining phone, accessories and field cables
3. **Beacon flash lamp**
   Explosion-proof strobe, flashes on incoming call (optional)
4. **Horn speaker**
   Explosion-proof horn for loud ringing / paging (optional)
5. **LAN / PoE & power**
   Field cable to network switch, PoE 802.3af/at or 12 VDC
6. **Ex cable glands**
   Armoured cable entries keep the system flameproof

Example installation for hazardous areas. All accessories, junction boxes and cable glands must carry an Ex rating suitable for the zone.

Dimension (mm)



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