

Exigo EAPFX & Turbine TFIX Ex Series

Mounting procedures are the same for all units in the Exigo and Turbine Ex series.



EAPFX-1-V2
1023221611



EAPFX-6-V2
1023221616



TFIX-1-V2
1008123110



TFIX-2-V2
1008123120



TFIX-3-V2
1008123130

Contents of the Delivery



The unit comes with 4 blind plugs already mounted. The front frame is fastened with 2 socket-head cap M6 screws.



1 Ex Unit



10 socket-head
cap M6 screws
(+ 2 fastened to
front frame)






1 Cable Gland
M16 Ex e








1 Cable Gland
M25 Ex e

Important Notes before Mounting

-  Improper installation and operation of the Ex unit will result in the invalidation of the warranty.
-  The enclosure/housing must not be opened when the unit is powered.
-  The installation and connection of Ex units may only be carried out by qualified/approved personnel.

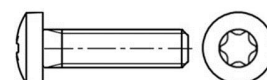
General Mounting Considerations

When the Ex unit is mounted directly onto a wall or mounting plate, it shall rest only on the fastening points provided for this purpose. The surface must be even and flat.

-  The unit must be mounted on a surface to prevent access from the rear of the unit.
-  Do not use countersunk screws.
-  Due to the cabinet material, use as low a tightening torque as possible when mounting the unit to the surface (1.5 Nm max.)
-  Washers are recommended.
-  Do not use more than 2.5 Nm torque when fastening the 12 screws into the front frame.

On Mounting Plate or Column - recommended screws:

M5 x 20 or 25 with Philips head DIN7985 or Torx head diameter: 10 mm.

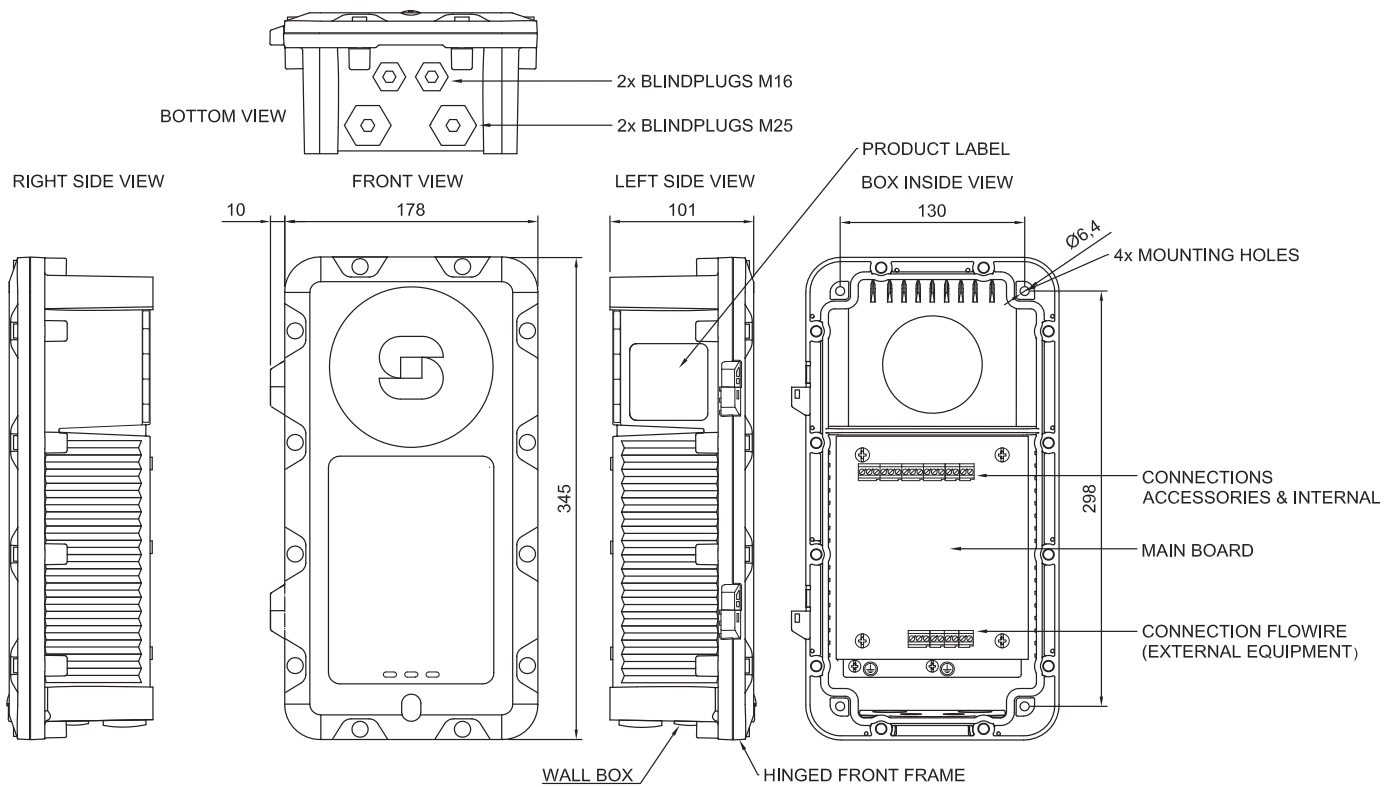


On Wall - recommended screws:

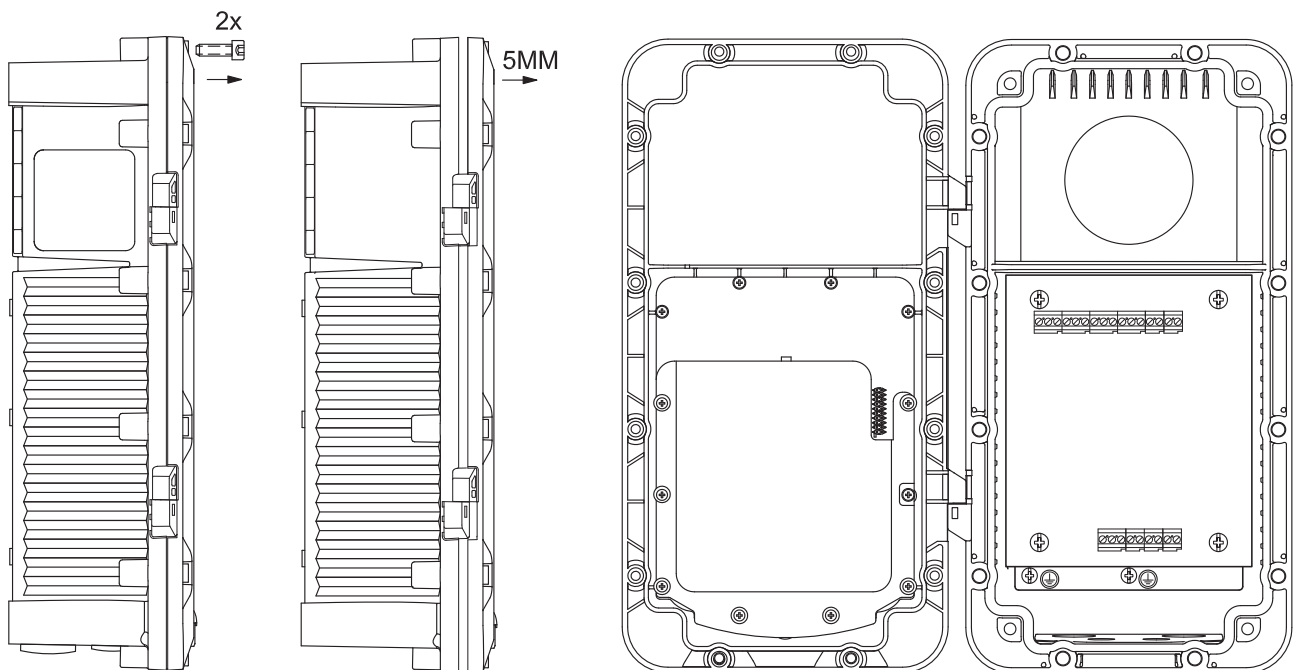
Panhead DIN7981 for plug or wooden wall, etc. Head diameter: 10.8 B5.5 x 38 or 45 mm.



Dimensions



Opening the Enclosure

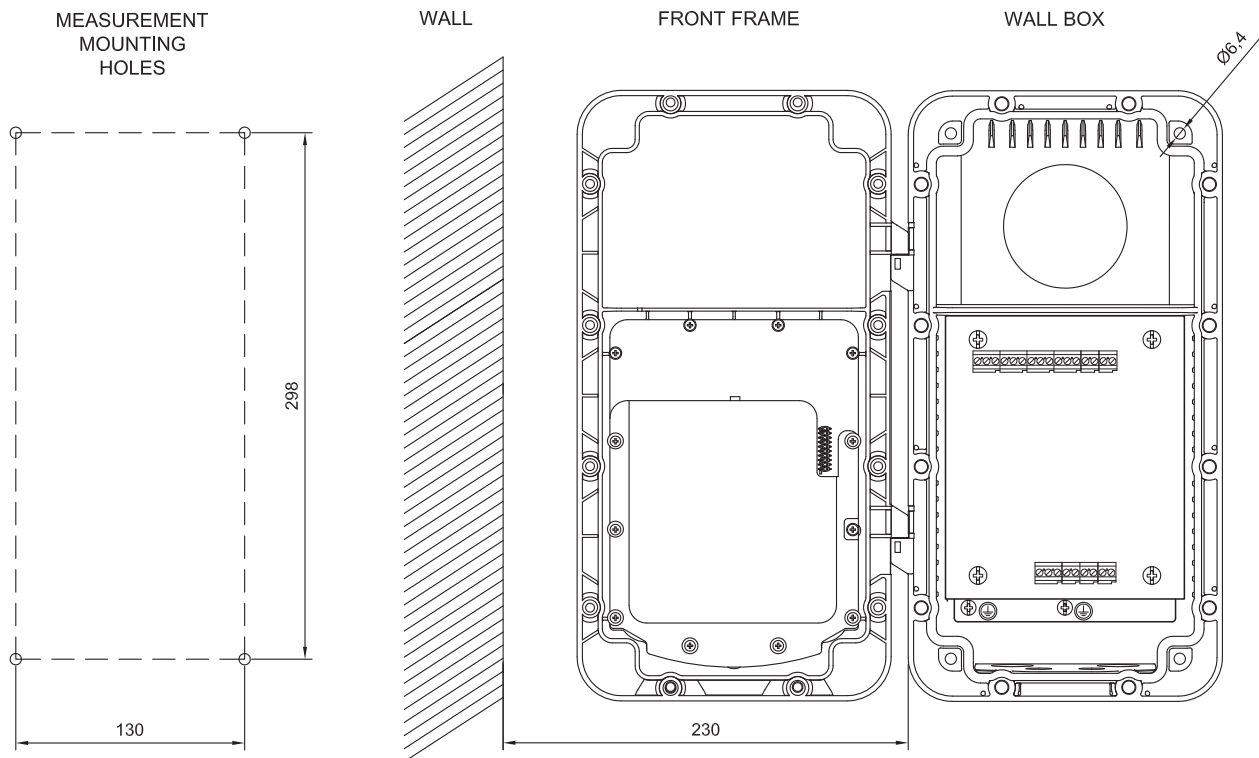


1 Loosen the 2 screws securing the front frame to the on-wall box.

2 Open the enclosure by pulling the front frame out 5 mm, keeping it parallel to the on-wall box. This is necessary to get clearing for the hinges.

3 Pull the right side of the front frame to open the enclosure fully. Do NOT open the enclosure to the extent that cables between the front and back parts become taut.

Mounting the Unit

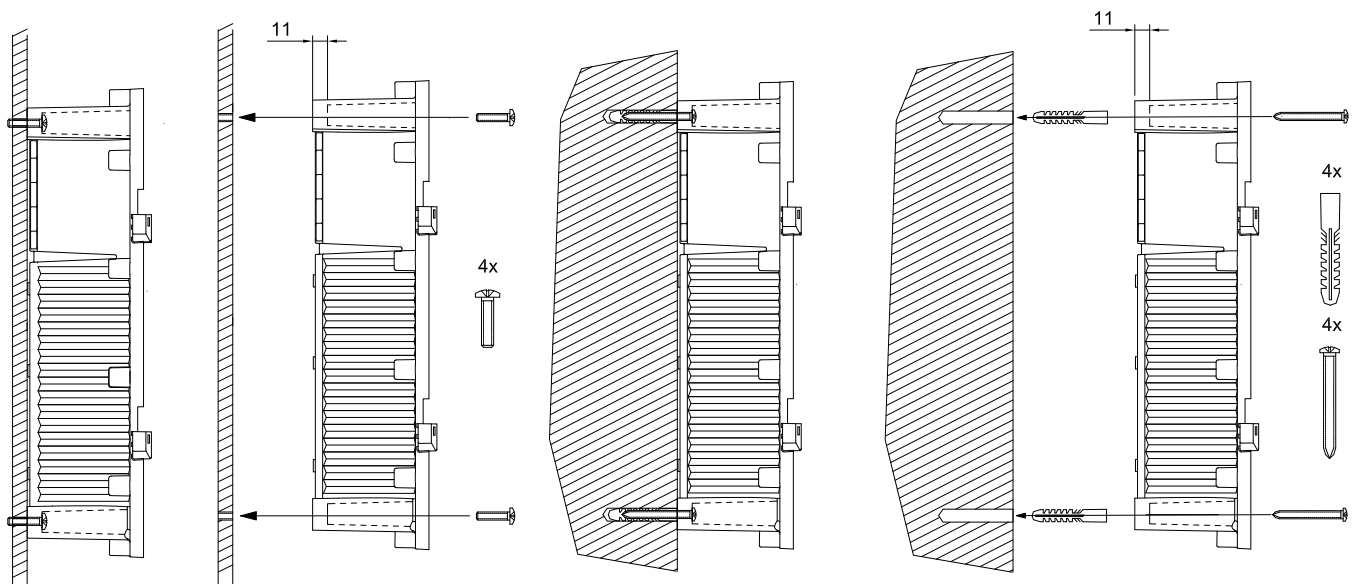


4 Preparation for Drilling

The four mounting holes in the on-wall box are $\text{Ø}6.4$ mm. Distance: 298 x 130 mm. Size of hole to be drilled depends on whether it is wall or column mounting.

5 Location

Make sure there is a clearance of minimum 230 mm on the left for frame movement.



6 Mounting Plate or Column

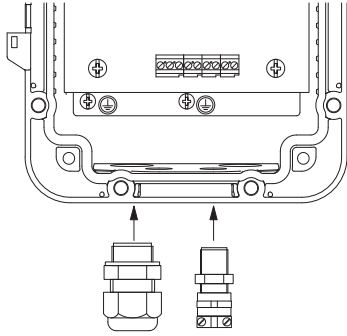
Fix the unit to the mounting plate or column with 4 screws that fit the 4 screw holes in each corner of the on-wall box ($\text{Ø}6.4$ mm). Use M5 x 20 or 25 with Philips head DIN7985 or Torx head Ø : 10 mm.

7 Wall

Fix the unit to the wall with 4 screws that fit the 4 screw holes in each corner of the on-wall box ($\text{Ø}6.4$ mm). Use Panhead DIN7981 screw for plug or wooden wall. Head Ø : 10.8 B5.5 x 38 or 45 mm.

8 Mounting Cable Gland

Remove two blind plugs and insert one M16 Ex e and one M25 Ex e cable gland. Make sure to tighten sufficiently to attain IP-66 rating for watertightness, but be aware of plastic material limitations.



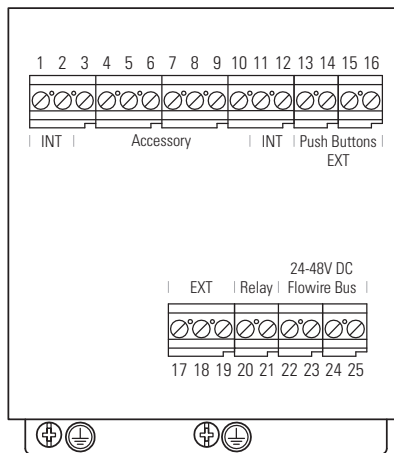
- In order to ensure the required minimum degree of protection, the cable glands must be tightened securely.
- Over-tightening can impair the degree of protection and damage the Ex unit.
- When tightening the cap nut of a cable gland, a suitable tool shall be used to prevent the gland from twisting.

Specific Conditions of Use:

- The Ex Products and associated cable glands are tested for low risk of mechanical hazard and shall be protected against higher impact energy levels if used.
- The cable glands shall be mounted according to the manufacturer's instructions, and additional clamping of the cable may be needed.
- Other certified cable glands than supplied with the product may be mounted and used according to the manufacturer's instructions.

For complete documentation, see *Installation & Maintenance Procedures for Exigo Ex Access Panels & Turbine Ex Intercoms*, Document no. A100K12133.

Electrical Connections



1	Internal Mic+
2	Internal Mic -
3	Signal GND
4	Audio Accessory Speaker +
5	Audio Accessory Speaker -
6	Audio Accessory Microphone Mic +
7	Audio Accessory Microphone Mic -
8	Audio Accessory Push To Talk (PTT)
9	Audio Accessory Hook
10	Audio Accessory GND PTT/Hook
11	Internal Loudspeaker +
12	Internal Loudspeaker -
13	GPI 1 External Push Button

14	GND External Push Button
15	GPI 2 External Push Button
16	GND External Push Button
17	External Loudspeaker +
18	External Loudspeaker -
19	Signal GND
20	Relay COM
21	Relay NO
22	Flowire PLC1 +
23	Flowire PLC1 -
24	Flowire PLC2 +
25	Flowire PLC2 -

The apparatus shall be supplied with Safety Extra-Low Voltage (SELV) power supply of 24-48 VDC, 2A.

Accessories & Spare Parts

Item Number	Item Name	Item Description
AK5850HS	AK5850HS	Ex-Approved Headset with plug
1008150025	TAX-2B	Ex-Approved Cable for Headset with PTT Button
1008150030	TAX-3	Ex-Approved Handset with PTT, unterminated
1023533511	EMMAX-1H	Exigo Handheld Industrial Ex Microphone
1000150040	TAX-4	Cable gland kit (10x) for TFIx and EAPFX
1023594100	EGA-1	Button Protection Covers (10x)
1008140250	TA-25	M6 screw kit

Related Documentation

Document No.	Documentation
A100K12133	Exigo & Turbine Ex Maintenance Procedures
A100K11460	Exigo Technical Manual
A100K11958	Flowire Installation & Configuration Manual
A100K11471	Exigo User Manual
A100K11194	Turbine Stations Configuration Manual

DNV 21 ATEX 04699X

IECEX DNV 21.0097X



Ex related document.
All changes must be approved by Ex responsible in Zenitel.

The relevant certificates and declarations of conformity may be downloaded from: www.zenitel.com/customer-service/library



EU Declaration of Conformity

The following equipment is declared to be in conformity according to the following directives and international standards when the equipment is installed and used in a manner consistent with the manufacturer's recommendations and reference documents.

Manufacturer:	Zenitel Norway AS Bromsveien 17, 3183 Horten, Norway	
Type of equipment:	Ex intercom stations and access panels	
Product models:	Type name	Product number
	TFIX-1-V2	1008123110
	TFIX-2-V2	1008123120
	TFIX-3-V2	1008123130
	EAPFX-1-V2	1023221611
	EAPFX-6-V2	1023221616

Relevant EU directives:

Directive 2011/65/EU	The restriction of the use of certain hazardous substances in electrical and electronic equipment.
Directive 2014/35/EU	Electrical equipment designed for use within certain voltage limits.
Directive 2014/30/EU	Electromagnetic compatibility
Directive 2014/34/EU	Equipment and protective systems intended for use in potentially explosive atmospheres

Harmonised standards applied:

Electromagnetic Emissions: (by Council Directive 2014/30/EU)	EN IEC 61000-6-3:2021 EN IEC 61000-6-4:2019
Electromagnetic Immunity: (by Council Directive 2014/30/EU)	EN 50130-4:2011 + A1:2014 EN IEC 61000-6-2:2019
Environmental:	EN/IEC 60945:2002 + Cor1:2008
Explosive atmospheres: (by Council Directive 2014/34/EU)	EN 60079-0:2018 EN 60079-7:2015 + A1:2018 EN 60079-11:2012 EN 60079-18:2015 + A1:2017

Marking: II 2(G Ex eb mb [ib] IIC T4 Gb
Ta: -20°C to +55°C

Type Examination Certificate: DNV 21 ATEX 04699X, NB 2460

The manufacturer is solely responsible for making this declaration. The technical file is maintained at the company address listed above.

Name, Surname	<i>Audun Kollie</i>
Position/Title	Audun Kollie
Place of issue	Horten
Date of issue	16.12.2021

DOC NO.

A100K12140

DATE

17.1.2022

www.zenitel.com

