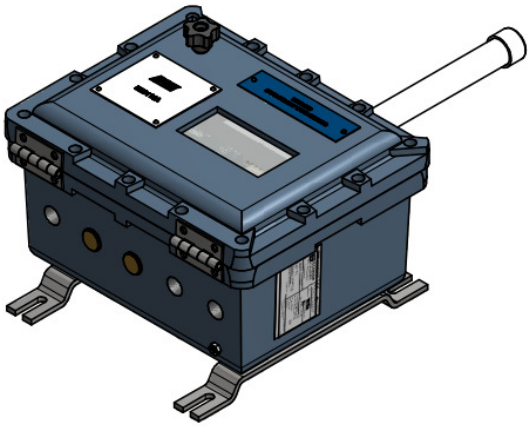
IMPROVING EFFICIENCY,
SAFETY & DATA OPTIMISATION

EZ8110A
Zone 1 Wifi Torque Unit

In compliance with
Atex &
Norsok Z-015 Standards

Operation, Installation & Maintenance Manual
Rev 7.00 dated 17/04/2025.



Prior to installation, maintenance or operation ensure sections 1 – 10 have been read and clearly understood.

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1.0 ABOUT THIS MANUAL

Thank you and congratulations on purchasing the EZ8110A Zone 1 Wifi Torque Unit. This manual will guide you through safety, installation, set up and maintenance of the EZ8110A system.

Graphical Symbol Explanation

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important instructions in literature accompanying with the system.

The lightning arrow within an equilateral triangle is intended to alert the user to the presence of high voltage instructions in literature accompanying with the system.

The hand within an equilateral triangle is intended to alert the user to the presence of Electric Static Device (ESD) instructions in literature accompanying with the system.

2.0 IMPORTANT SAFEGUARDS

Read the manual thoroughly with particular attention to section 6 before attempting to install, operate or maintain the system.

The EZ8110A complies with applicable Essential Health and Safety Requirements of Annex II of the ATEX Directive 2014/34/EU relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres.

The EZ8110A is protected to IP66 when properly installed, and it can operate in ambient temperatures from -20°C to +50°C.

Do not use the unit if any seals, connectors, or glands are damaged. Damage to these parts may provide an external flame path. These are parts are vital to the safe certified operation of the unit.

The system should only be opened, and installation and maintenance work be carried out in a safe area, the system should NEVER be opened in a hazardous area unless the engineer/operator is under a permit to work.

For all connections isolate elsewhere before separation or connection

The EZ8110A weighs approximately 12kg. Proper lifting techniques should be adhered to when moving or lifting the system. If the system is not handled safely other equipment may be damaged or personnel be injured.

Antenna is a potential electrostatic charging hazard. Clean with a damp cloth.

Any modification or unauthorized repair of the EZ8110A system may affect compliance with the ATEX directive.

3.0 INSPECTION OF GOODS

Each EZ8110A system is shipped in a single heavy-duty crate.

3.1 Inspection of goods

Inspect the system on receipt of delivery and note any visible damage to the crate or contents. Notify the freight company immediately if damaged items are found.

If the contents of the shipping crate appear to be damaged or missing contact EZTEK LTD as soon as possible. Tel. +44 1224 791977, Fax. +44 1224 791399, Email info@eztek.co.uk

3.2 Packing List

Please check goods against delivery documentation

3.3 Unpacking the goods.

1. Remove any shipping documentation from the exterior of the shipping crate and store in a safe place.
2. Remove lid of the crate and remove any packaging.
3. Remove any documentation and additional equipment.


The EZ8110A weighs approximately 12 kg. Proper lifting techniques should be adhered to when moving or lifting the system. If the system is not handled safely other equipment may be damaged or personnel be injured.

4. Remove the EZ8110A unit from the shipping crate.

4.0 DESCRIPTION

4.1 General

The EZ8110A zone 1 Wifi Torque unit is a Data acquisition system housed in a flameproof enclosure which incorporates the following features:

- Flameproof enclosure
- Suitable for Zone 1 hazardous area environment
- 1x Intrinsically Safe 4-20mA Current loop input for torque
- 1x Intrinsically Safe Encoder input for encoder
- 1 x Solenoid output
- 1 x AC Output
- Internal Wireless to serial Adapter
- External Atex Intrinsically Safe Wireless Antenna
- Status LEDs visible from enclosure window
- 100-240VAC autosense supply voltage

4.2 Power requirements

The system operates from an 100-240VAC 50-60Hz autosense supply voltage. Current consumption depends on instrumentation connected to outputs and is typically less than 0.5 Amps. The maximum dissipated wattage is 1W.

4.3 Hazardous area operation

The EZ8110A Zone 1 Wifi torque unit is a system housed in a sealed IP66 flame proof enclosure and is designed in accordance with ATEX standards EN60079-0,1,11,31 to allow zone 1 hazardous areas.

5.0 TECHNICAL SPECIFICATIONS

The EZ8110A Zone 1 System is designed to comply with applicable Essential Health and Safety Requirements of Annex II of the ATEX Directive 2014/34/EU as Zone 1 rated equipment for use in hazardous areas. The EZ8110A enclosure is rated to IP66.

ATEX compliant marking: II 2 G Ex db IIB+H2 T4 Gb

Conformity has been demonstrated with reference to the following documentation:

EC type examination certificates : INERIS 00 ATEX 0021X

Compliance with the essential health and safety requirements has been assessed by reference to the following standards:

EN IEC 60079-0:2018
EN 60079-1:2014
EN 60079-11:2012
EN 60079-31:2014

Temperature Rating: -20°C to +50°C

6.0 IMPORTANT INFORMATION AND SPECIAL CONDITIONS

ENSURE THE BELOW INFORMATION IS READ AND CLEARLY UNDERSTOOD PRIOR TO INSTALLATION, OPERATION OR MAINTENANCE.

Any modification or unauthorized repair of the unit will void certification.

All enclosures within the EZ8110A system must only be opened in a safe area only; these enclosures must NEVER be opened in a hazardous area unless the engineer/operator has a permit to work.

Any work should be carried out by a qualified engineer.

No parts should be substituted without the approval of Eztek ltd.

The EZ8110A system can ONLY be used within the bounds of its certification. Any external connectors/cable glands are covered by the manufacturer's own safety instructions. Any visible damage should be checked to avoid electrical or Ex hazards. The maintenance and inspection of the system is to be performed according to EN 60079-17/60079-1 (NEK420) standards.

The dimensions of the flameproof joints are different from the values specified in the tables of the EN 60079:1 standard. The flameproof joints are not intended to be repaired.

The screws used for the lid fastening must have a tensile strength higher or equal to 800N/mm². Lid screws must be greased with Loctite 8104 or similar. Lid screw torque settings 10Nm.

To maintain IP66 rating the enclosure flange joint must be coated with silicone grease.

If paintwork is damaged, please maintain as per 60079:0 7.4.2 table 8. Do not allow build-up of material on panel.
If any damage is found, the panel should be put out of service and the manufacturer contacted.

NEVER POWER UP A UNIT IN HAZARDOUS AREA IF:

• The enclosures show signs of damage.
• Any of the connectors or cables shows signs of damage.

These are vital parts to the safety.

Antenna is an electrostatic charging hazard, clean with a damp cloth only.

The maximum radiated power must not exceed that allowed in the area of installation.
(IEC 60079-0). IIC 2W, IIB 2.5W, IIA 6W.

The EZ8110-01-XX hookup cable as per Norsok standard Z-015 section 5.7.2 can be rubber-insulated cable type H07RN-F or equivalent, at least 35 m long, with a temperature rating of 85 °C. NEK606 cable should be used with lengths less than 35m.

The pressure sensor and encoder are not within the scope of supply, ensure that the connecting pressure sensor and encoder with connecting cables are evaluated to comply with the specified IS Loop safety parameters:

Uo < Ui
Io < Ii
Po < Pi
Co > Ci +Cc
Lo > Li +Lc

Pressure Sensor connection to the EZ8110-02-XX, safety parameter requirements:

Uo = 26.2V
Io = 93mA
Po = 634mW
Co (IIC) = 92nF
Lo (IIC) = 4.11mH
L/R Ratio (IIC) =56.22uH/ohm

Encoder connection to the EZ8110-03-XX, safety parameter requirements:

Uo = 10.5V
Io = 17.1mA
Po = 45mW
Co (IIC) = 2.41uF
Lo (IIC) = 121.5mH
L/R Ratio (IIC) =0.79mH/ohm

Pressure sensor and encoder cables interfacing with the EZ8110-02-XX and EZ8110-03-XX as per Norsok E-001 require to be NEK606 or suppliers standard cables are accepted and should be short as possible with mechanical protection.

For operation with the connected pressure transducer the process temperature (medium) at the diaphragm of the transmitter must be in range of ambient temperature.

The EZ8110-04-XX cable is fitted with a 250VAC 16A connector therefore if a 110VAC supply is required then an appropriate connector should be selected. The AC out current is protected by an internal 6A Type C MCB.

The AC Out connection is a direct feed from the AC in Connection therefore the voltage on the AC out will always reflect the AC in voltage. Cables interfacing with the EZ8110-04-XX require to be NEK606.

The EZ8110-05-XX solenoid out connection supplies an internally fused 24V 2.0A supply. Cables interfacing with the EZ8110-05-XX require to be NEK606.

Read this manual thoroughly before attempting to install, operate or service the system. ONLY certified personnel are permitted to open this enclosure. (Certified Personnel means approved by Eztek Limited or operator/owner with proper training in handling certified equipment for use in hazardous areas).
Warnings and cautions are stated in several places in the manual, mainly for the security and safety of the personnel, but also to protect the equipment from damage.

7.0 ENVIRONMENTAL SPECIFICATIONS

Eztek are a company fully committed to protecting and safeguarding the environment.

EZTEK are now a member of a WEEE compliance scheme through WEEECare. They will manage the collection and disposal of WEEE goods to satisfy all current regulatory requirements.

This in effect means that the collection and disposal method eliminate unnecessary waste pollution to the environment. This disposal service separates the individual materials contained within the units and collects safely the hazardous contaminants from the units for proper and safe disposal.

If you require to scrap or return units for disposal, please use the following contact details:

Contact: WEEECare @ UK TEL 0844 800 2004 to arrange pickup, advise WEEECare that the Account number is 159279.

Advise WEEECare you want them to pick up a unit for scrapping/disposal.

8.0 SYSTEM SPECIFICATIONS

Data Acquisition Electronic Interface

Channels	1 x Intrinsically Safe Torque Input 4-20mA
	1x Intrinsically Safe Namur Encoder Input
	1 x Solenoid Output
Wifi	Intrinsically Safe RF Output
	Omni Directional Antenna 2400/5800MHz
	Line of site tested up to 40m.

Enclosure

Type	Aluminium Alloy
Seal Rating	IP66
Operating Temperature	-20 to 50°C

9.0 INSTALLATION

The EZ8110A is designed to be used in any location up to zone 1 hazardous areas. The system is designed to be wall or frame mounted. The unit should be positioned so that the viewing window is ideally at an ergonomic height.

Suitable space should also be provided for cable and connector entry points allowing for the minimum bend radius of the cables. Cables must be secured to prevent tension or unnecessary movement at the connector or glands.

Suitable space should be provided for the antenna, ensuring the device is not obstructed by any hazards which may impede the signal. The antenna is not designed to come into contact with aggressive substances or environments and is not designed to be subjected to excessive stresses e.g. vibration, heat, or impact. Additional protection may be required.

When attaching the antenna to the enclosure a force of no greater than 1.1Nm should be used when making up the N-Type connection.

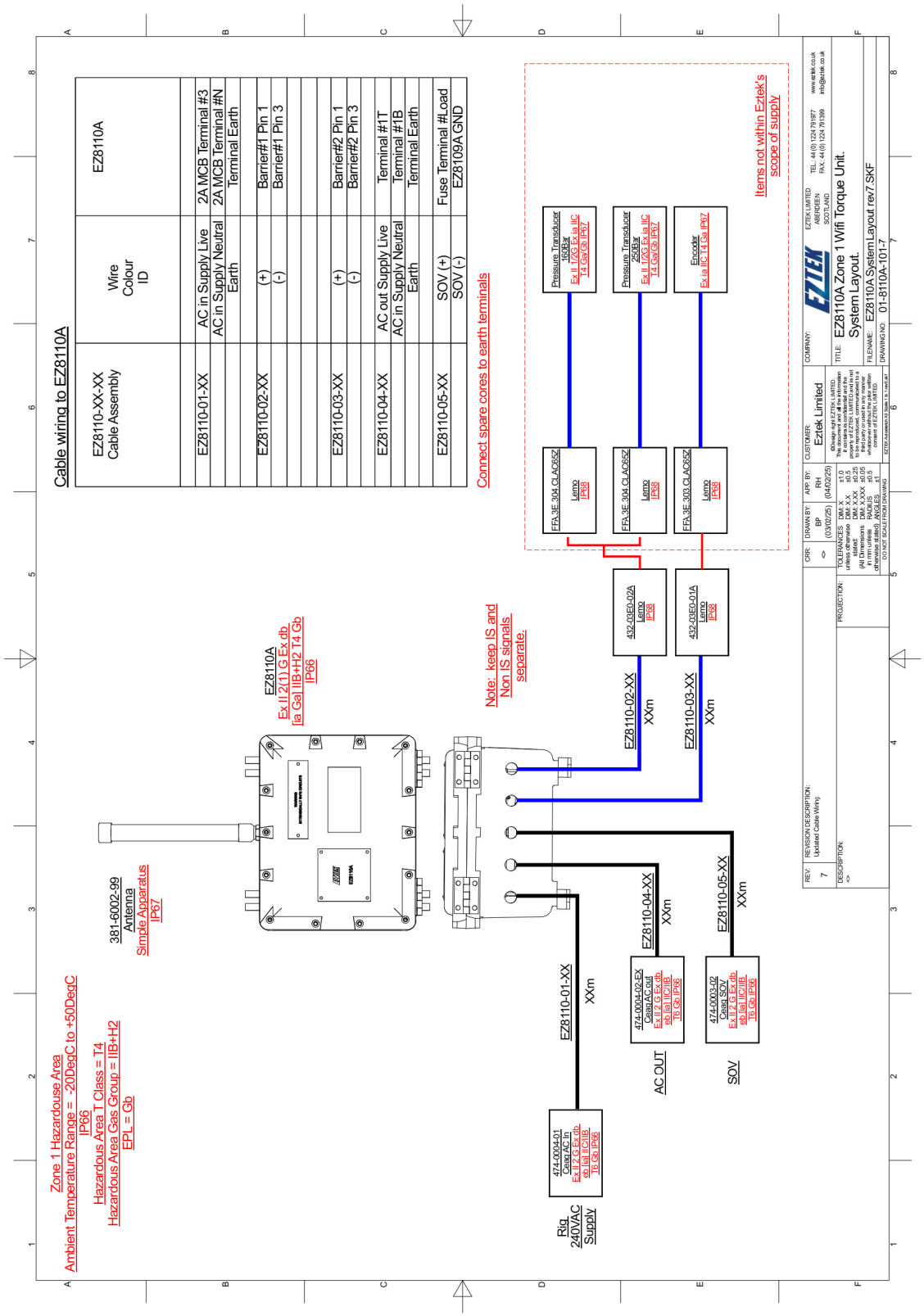
For all connections isolate elsewhere before separation or connection

The EZ8110A weighs approximately 12 kg. Proper lifting techniques should be adhered to when moving or lifting the system. If the system is not handled safely other equipment may be damaged or personnel be injured.

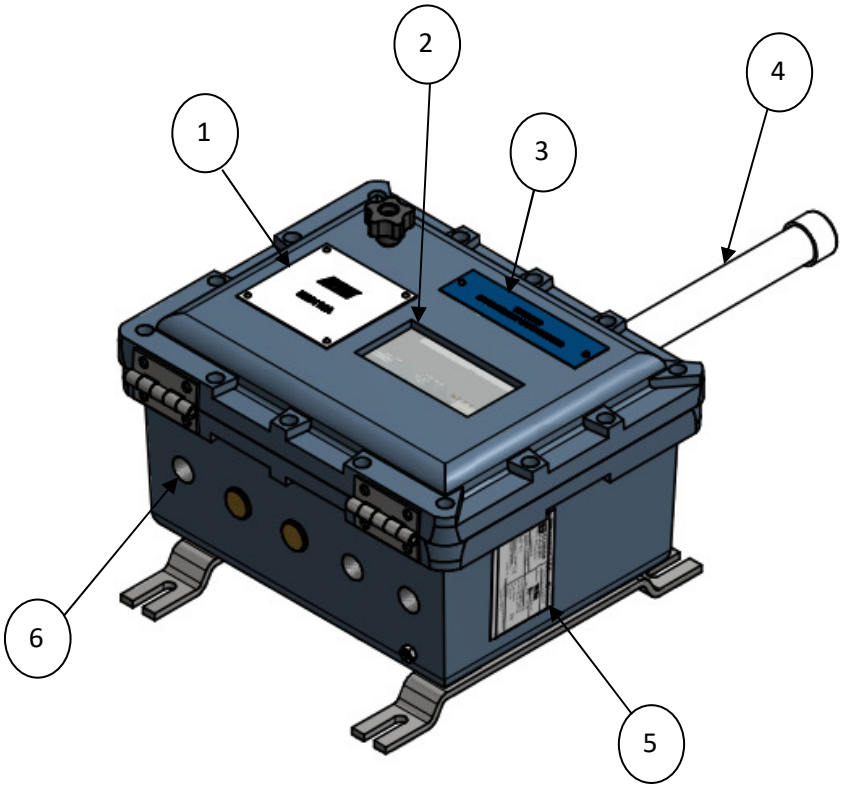
All local cabling to the EZ8110A system must be installed according to safety regulations and site instructions.

Before installation inspect the EZ8110A for any visible damage, check if seals, connectors, and glands are damaged. Ensure that the lid is closed. If any damage is found return the system for repair as any damage could invalidate system certification.

Installation should be carried out by a qualified engineer.

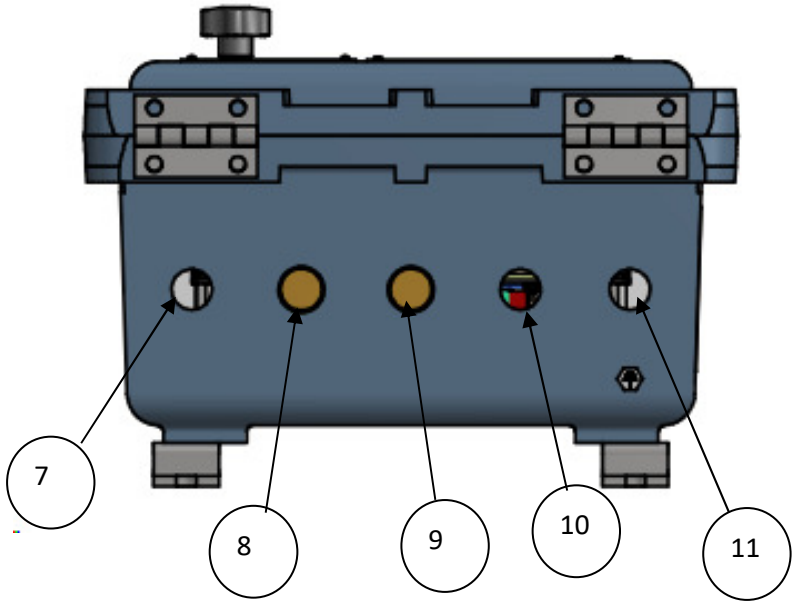


EZ8110A BLOCK DIAGRAM



EZ8110A General Layout

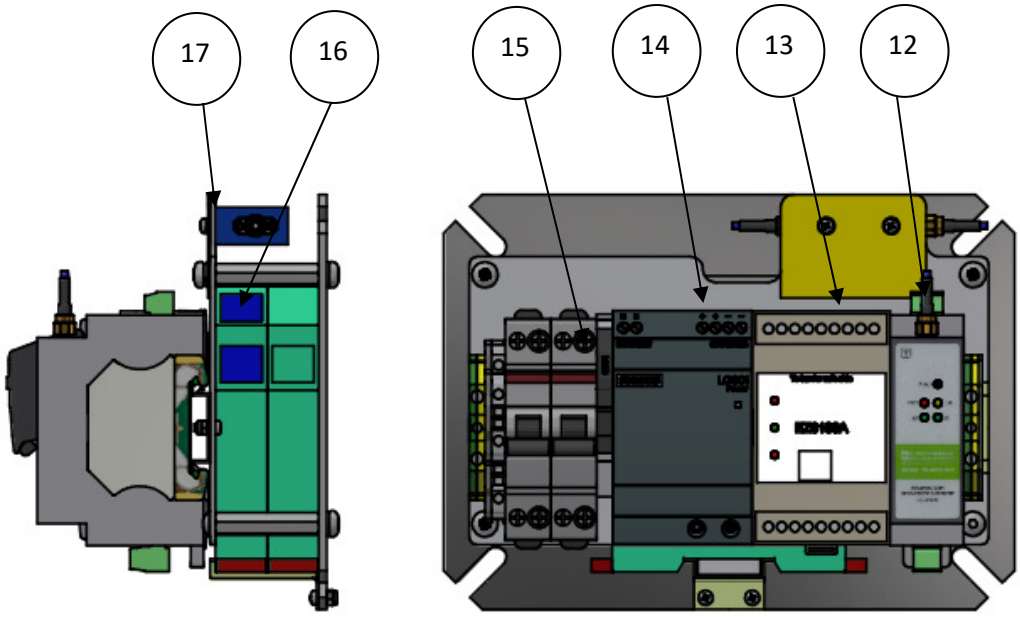
1. SN and Information Label.
2. Viewing window for internal component status
3. Intrinsically safe Label
4. Antenna.
5. Certification Label
6. Connections and Gland entries.



EZ8110A Bottom Layout

The figure above shows EZ8110A's bottom layout. It provides the following features:

7. M20 Entry (Mains AC In)
8. M20 Entry (AC Out)
9. M20 Entry (Solenoid)
10. M20 Entry (Intrinsically Safe Load cell)
11. M20 Entry (Intrinsically Safe Encoder)



EZ8110A Internal Layout

The figure above shows EZ8110A's internal layout. It provides the following features:

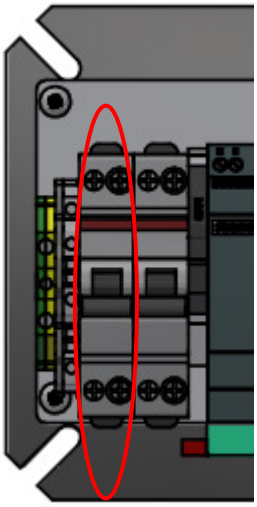
12. RS485 to Wifi/Ethernet Converter
13. Torque DAQ Module
14. PSU
15. Terminals and Circuit Protection
16. Intrinsically Safe Barriers
17. Intrinsically Safe RF Barrier

Supply Power to EZ8110A

Please refer to section 6 for important information and special conditions before carrying out installation.

The power must be connected to a suitable 100 or 240 VAC (47 to 65 Hz) supply via the supplied EZ8110-01-XX cable. Note: if the supply cable gland for the Junction Box is not provided; a suitable Ex gland should be used. It is recommended that a H07RN-F or equivalent Cable is used with a minimum length of 35m, as per Norsok standard Z-015 section 5.7.2 otherwise NEK606 cable should be used lengths less than 35m. For correct cable gland assembly please refer to cable gland manufacturer's instructions.

The EZ8110-01-XX cable is connected to the internal terminals of the EZ8110A. The AC In feed to the enclosure power supply is protected by a 2A Type C 1P+N MCB.



EZ8110A AC In Power Terminals

EZ8110A AC In Power Wiring:

2A MCB Terminal# 3: Live

2A MCB Terminal #N: Neutral

Terminal Earth: Earth

Please refer to section 14 for wiring drawings.

AC Out connection

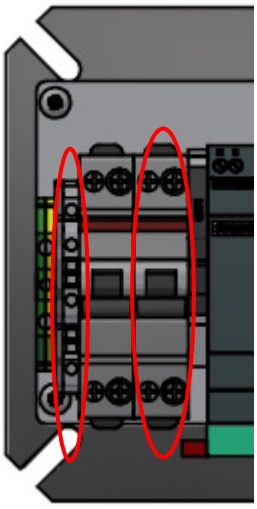
Please refer to section 6 for important information and special conditions before carrying out installation.

The AC Out supply can be connected via the supplied EZ8110-04-XX cable. Note: if the supply cable gland for the Junction Box is not provided; a suitable Ex barrier gland should be used. It is recommended that a NEK606 Cable is used. For correct cable gland assembly please refer to cable gland manufacturer's instructions.

The AC Out connection is a direct feed from the AC in Connection therefore the voltage on the AC out will always reflect the AC in voltage.

The EZ8110-04-XX cable is fitted with a 250VAC 16A connector therefore if a 110VAC supply is required then an appropriate connector should be selected. The AC out current protected by a 6A Type C 1P+N MCB

Cables interfacing with the EZ8110-04-XX require to be NEK606.



EZ8110A AC Out Power Terminals

EZ8110A AC Out Power Wiring:

Terminal# 1T: Live

Terminal #1B: Neutral

Terminal Earth: Earth

Please refer to section 14 for wiring drawings.

Solenoid connection

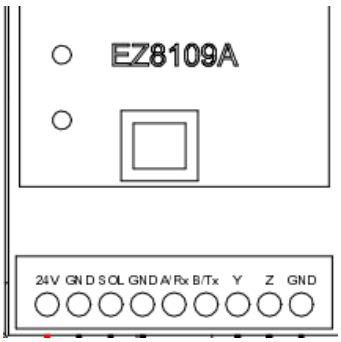
Please refer to section 6 for important information and special conditions before carrying out installation.

The Solenoid connection can be connected via the supplied EZ8110-05-XX cable. Note: if the supply cable gland for the Junction Box is not provided; a suitable Ex barrier gland should be used. It is recommended that a NEK606 Cable is used. For correct cable gland assembly please refer to cable gland manufacturer's instructions.

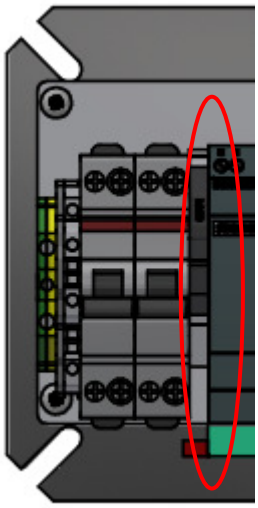
Cables interfacing with the EZ8110-05-XX require to be NEK606.

The Solenoid cable is to be connected directly to the EZ8109A Torque DAQ Module and the internal fuse terminal

The solenoid out connection supplies a 24V 2A internally fused supply.



EZ8110A Solenoid Terminals



EZ8110A Solenoid Wiring:

Fuse Terminal#Load: Solenoid +

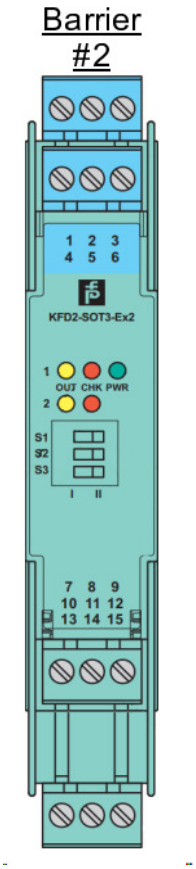
EZ8109A GND: Solenoid -

Encoder connection.

Please refer to section 6 for important information and special conditions before carrying out installation.

The Encoder connection can be connected via the supplied EZ8110-03-XX cable. Note: if the supply cable gland for the Junction Box is not provided; a suitable Ex barrier gland should be used. It is recommended that NEK606 cable is used. For correct cable gland assembly please refer to cable gland manufacturer's instructions.

The Encoder cable is to be connected directly to Barrier#2.



Barrier #2
1: Phase A+
3: Phase A-
4: Phase B+
6: Phase B-

The encoder is not within the scope of supply, ensure that the connecting encoder with connecting cables are evaluated to comply with the specified IS Loop safety parameters and that the cable is as per Norsok E-001 required to be NEK606 or suppliers' standard cables are accepted and should be short as possible with mechanical protection.

Uo < Ui
Io < Ii
Po < Pi
Co > Ci +Cc
Lo > Li +Lc

Encoder connection to the EZ8110-03-XX, safety parameter requirements:

Uo = 10.5V
Io = 17.1mA
Po = 45mW
Co (IIC) = 2.41uF
Lo (IIC) = 121.5mH
L/R Ratio (IIC) =0.79mH/ohm

Load Cell connection.

Please refer to section 6 for important information and special conditions before carrying out installation.

The Load Cell connection can be connected via the supplied EZ8110-02-XX cable. Note: if the supply cable gland for the Junction Box is not provided; a suitable Ex barrier gland should be used. It is recommended that NEK606 cable is used. For correct cable gland assembly please refer to cable gland manufacturer's instructions.

The Load Cell cable is to be connected directly to Barrier#1. Any spare cores should be terminated to earth.

Barrier #1
1: +
3: -

The pressure sensor is not within the scope of supply, ensure that the connecting sensor with connecting cables are evaluated to comply with the specified IS Loop safety parameters and that the cable is as per Norsok E-001 required to be NEK606 or suppliers standard cables are accepted and should be short as possible with mechanical protection.

Uo < Ui
Io < Ii
Po < Pi
Co > Ci +Cc
Lo > Li +Lc

Pressure Sensor connection to the EZ8110-02-XX, safety parameter requirements:

Uo = 26.2V
Io = 93mA
Po = 634mW
Co (IIC) = 92nF
Lo (IIC) = 4.11mH
L/R Ratio (IIC) =56.22uH/ohm

10.0 SYSTEM OPERATION

START UP PROCEDURE

- Ensure all cables are connected as per installation procedure.
- Ensure the AC input supply is as specified.
- To power up the EZ8110A system apply AC supply.
- The system will automatically switch on.

EZ8110A Operation

SYSTEM OPERATION:

The EZ8110A Zone 1 wifi torque unit receives data from the locally connected torque and position sensors. This data is then transmitted through RS485 communications via the Wifi connection to the client remote device running the WinGrit software. Ensure that line of sight is maintained to prevent loss of signal.

The solenoid connection is available to connect a local solenoid valve to shut down the system in case of overpressure.

For details on the WinGrit software please refer to client documentation.

11.0 GENERAL MAINTENANCE & SAFETY

A routine visual inspection should be carried out on the EZ8110A system every time prior to the system being powered. This should be carried out by a competent engineer. The visual inspection should include:

- Check the enclosure for physical damage e.g. cracks in the enclosure or damage to seal faces.
- Check cables, glands, and connectors for damage.
- Ensure that the lid is securely closed.

If a problem with the EZ8110A system is found with the above checks the system must not be powered up in a zone 1 area.

If there is any uncertainty with the safety or condition of the system, please contact Eztek Ltd (Tel +44 1224 791977, Fax +44 1224 791399, email sales@eztekglobal.com

A yearly routine maintenance check should be carried out to ensure the system is still in good working condition. This should be carried out by a competent engineer. The maintenance check should include:

- Check the enclosure for any physical defects.
- Check for any mechanical damage and corrosion.
- Check any external cable glands/connectors for damage.
- Check that all mechanical fixings are secure.
- Check for any cabling damage.
- Always inspect the seal after any repair or if the system has been opened.

Never use the EZ8110A system if the seal has been damaged.

Any modification or unauthorized repair of the EZ8110A system may affect compliance with the ATEX standard.

If there is any uncertainty with the safety or condition of the system, please contact Eztek Ltd (Tel +44 1224 791977, Fax +44 1224 791399, email sales@eztekglobal.com

12.0 GENERAL OPERATION TROUBLESHOOTING

Please refer to section 6 for important information and special conditions before carrying out troubleshooting.

EZ8110A will not switch on – Check mains supply, check supply cabling, return the system to a safe area for further investigation/repair.

No sensor readings or sensor readings do not change. – Check cabling between Sensors and EZ8110A.
Check wifi connection between EZ8110A and remote device; return the unit to Eztek Ltd for repair. Eztek Ltd (Tel +44 1224 791977, Fax +44 1224 791399, email sales@eztekglobal.com

12.1 TROUBLESHOOTING FOR REPAIR

Any modification or unauthorized repair of the EZ8110A system may affect compliance with the ATEX standard. The system should only be opened, and installation and maintenance work be carried out in a safe area, the system should NEVER be opened in a hazardous area unless the engineer/operator is under a permit to work. Any work should be carried out by a qualified engineer. No parts should be substituted without the approval of Eztek ltd.

SEE SECTION 13.0 BEFORE OPENING THE EZ8110A SYSTEM

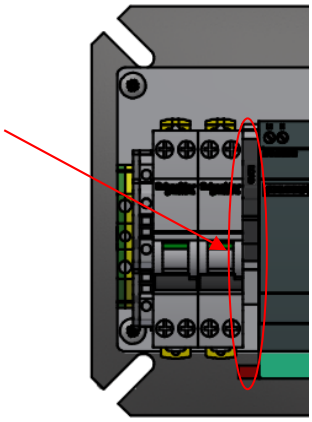
Unit will not switch on. – Check and reset the 2A MCB. If this does not rectify the problem, please return the unit to Eztek Ltd for repair. Eztek Ltd (Tel +44 1224 791977, Fax +44 1224 791399, email sales@eztekglobal.com

No AC Out Power. – Check and reset the 6A MCB. If this does not rectify the problem, please return the unit to Eztek Ltd for repair. Eztek Ltd (Tel +44 1224 791977, Fax +44 1224 791399, email sales@eztekglobal.com

No SOV Power. – Check and reset the SOV fuse with a 20x5mm 2A (T) anti surge replacement. To replace the fuses, ensure that mains power is isolated elsewhere. Flip the tab of the fuse holder, replace fuse and return tab to seated position. If this does not rectify the problem, please return the unit to Eztek Ltd for repair. Eztek Ltd (Tel +44 1224 791977, Fax +44 1224 791399, email sales@eztekglobal.com

Fuse Terminal :

2A (T) 20x5mm



13.0 OPENING THE EZ8110A SYSTEM

Any modification or unauthorized repair of the EZ8110A system may affect compliance with the ATEX standard. The system should only be opened, and installation and maintenance work be carried out in a safe area, the system should NEVER be opened in a hazardous area unless the engineer/operator is under a permit to work. Any work should be carried out by a qualified engineer. No parts should be substituted without the approval of Eztek ltd.

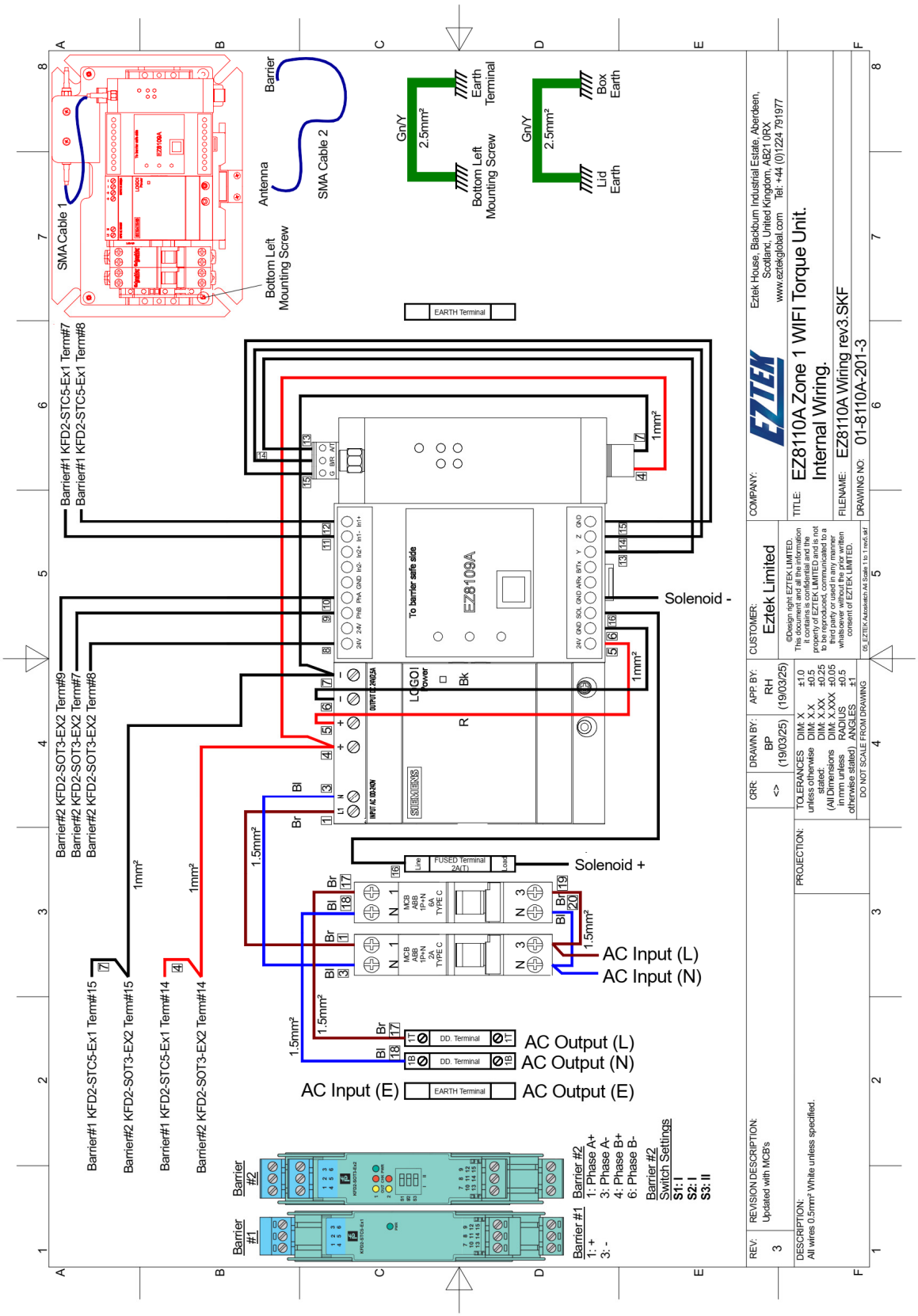
The EZ8110A weighs approximately 12 kg. Proper lifting techniques should be adhered to when moving or lifting the system. If the system is not handled safely other equipment may be damaged or personnel be injured.

ESD sensitive equipment inside, observe precautions when handling ESD sensitive equipment.

- Ensure all power is isolated elsewhere.
- Remove the 14 bolts.
- Open the door; ensure that the seal face does not get damaged.
- When closing the door clean and grease the lid screws with Loctite 8104 or similar and tighten to 10Nm.

14.0 WIRING DETAILS

EZ8110A Wiring Details


SMA Cable 1
Antenna
SMA Cable 2
Barrier
Bottom Left Mounting Screw
GnY 2.5mm²
Earth Terminal
Bottom Left Mounting Screw
GnY 2.5mm²
Box Earth
Lid Earth
EARTH Terminal
Barrier#1 KFD2-STC5-Ex1 Term#7
Barrier#1 KFD2-STC5-Ex1 Term#8
Barrier#2 KFD2-SOT3-EX2 Term#9
Barrier#2 KFD2-SOT3-EX2 Term#7
Barrier#2 KFD2-SOT3-EX2 Term#8
Barrier#1 KFD2-STC5-Ex1 Term#15
Barrier#2 KFD2-SOT3-EX2 Term#15
Barrier#1 KFD2-STC5-Ex1 Term#14
Barrier#2 KFD2-SOT3-EX2 Term#14
To barrier safe side
EZ8109A
Solenoid -
Solenoid +
FUSED Terminal 2A(T)
AC Input (L)
AC Input (N)
AC Output (L)
AC Output (N)
AC Input (E)
AC Output (E)
DD. Terminal
EARTH Terminal
Barrier #2
Barrier #1
Barrier #2
1: Phase A+
3: Phase A-
4: Phase B+
6: Phase B-
Barrier #2
Switch Settings
S1: I
S2: I
S3: II
Barrier #1
1: +
3: -
REV: 3
REVISION DESCRIPTION: Updated with MCB's
DESCRIPTION: All wires 0.5mm² White unless specified.
CRR: <>
DRAWN BY: BP (19/03/25)
APP. BY: RH (19/03/25)
PROJECTION:
TOLERANCES unless otherwise stated: (All Dimensions in mm unless otherwise stated)
DIM: X ±1.0
DIM: X.X ±0.5
DIM: X.XX ±0.25
DIM: X.XXX ±0.05
RADIUS ±0.5
ANGLES ±1
DO NOT SCALE FROM DRAWING
CUSTOMER: Eztek Limited
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05_EZTEK Autowtech A4 Scale 1 to 1 rev5.skf
COMPANY: EZTEK
Eztek House, Blackburn Industrial Estate, Aberdeen, Scotland, United Kingdom, AB21 0RX
www.eztekglobal.com Tel: +44 (0)1224 791977
TITLE: EZ8110A Zone 1 WIFI Torque Unit. Internal Wiring.
FILENAME: EZ8110A Wiring rev3.SKF
DRAWING NO: 01-8110A-201-3

EZ8110-01-XX Wiring Details

TAG Number: EZ8110-01-XX

Function: EZ8110A Power Cable.

Cable (supplied loose):

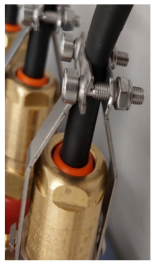
Check WO for length

Cable 3-Core 1.5mm H07RNF Black

Cable Glands:

Connector assembly to be at least IP66. Choose suitable glands, adapters/reducers and sealing washers as required.
See BOM for details.

Gland Mounted Clamp. Fit to gland but replace nuts with A4 M4 Nylocks 2x 651-0040-01A4.



Cable Labels:

Heat shrink Label with "EZ8110-01-XX",
"Eztek BN#" & "Made in...." text
(Check WO for length) + Clear Heat shrink
(50mm wide label. Edit "XX" to cable length.
Position 100mm from the cable connector/gland).
Clear heatshrink over the labels. Clear heatshrink to extend 20mm past each end of the labels.
NOTE :
LABELS TO BE FITTED FIRST BEFORE CONNECTORS ATTACHED.

END A *CEAG Coupler (GHG5117306R0001)	Wire Colour ID	END B 300mm flying leads c/w fitted gland
LIVE	Brown	AC IN SUPPLY (L)
NEUTRAL	Blue	AC IN SUPPLY (N)
EARTH	Grn/Y	EARTH

END A

CEAG Connector Coupler (GHG5117306R0001)

300mm flying leads with ferrules.
Cores marked as shown with heatshrink labels, close to ferrule. (No clear heatshrink required).

Brown AC IN SUPPLY (L)
Blue AC IN SUPPLY (N)
Grn/Y EARTH

M20 Sealing Washer

Hawke Gland Mounted Clamp Size 2

Hawke Barrier Gland ICG653/ UnivOs/M20

END B 50mm black heatshrink

REV: 2 — REVISION DESCRIPTION: Updated Ceag PN — CRR: <> — DRAWN BY: BP (07/03/24) — APP. BY: BL (07/03/24)

DESCRIPTION: <>.

PROJECTION:

TOLERANCES unless otherwise stated: (All Dimensions in mm unless otherwise stated) DIM: X ±1.0, DIM: X.X ±0.5, DIM: X.XX ±0.25, DIM: X.XXX ±0.05, RADIUS ±0.5, ANGLES ±1

DO NOT SCALE FROM DRAWING

CUSTOMER: Eztek Limited

EZTek Autosketch A4 Scale 1 to 1 rev4.skf

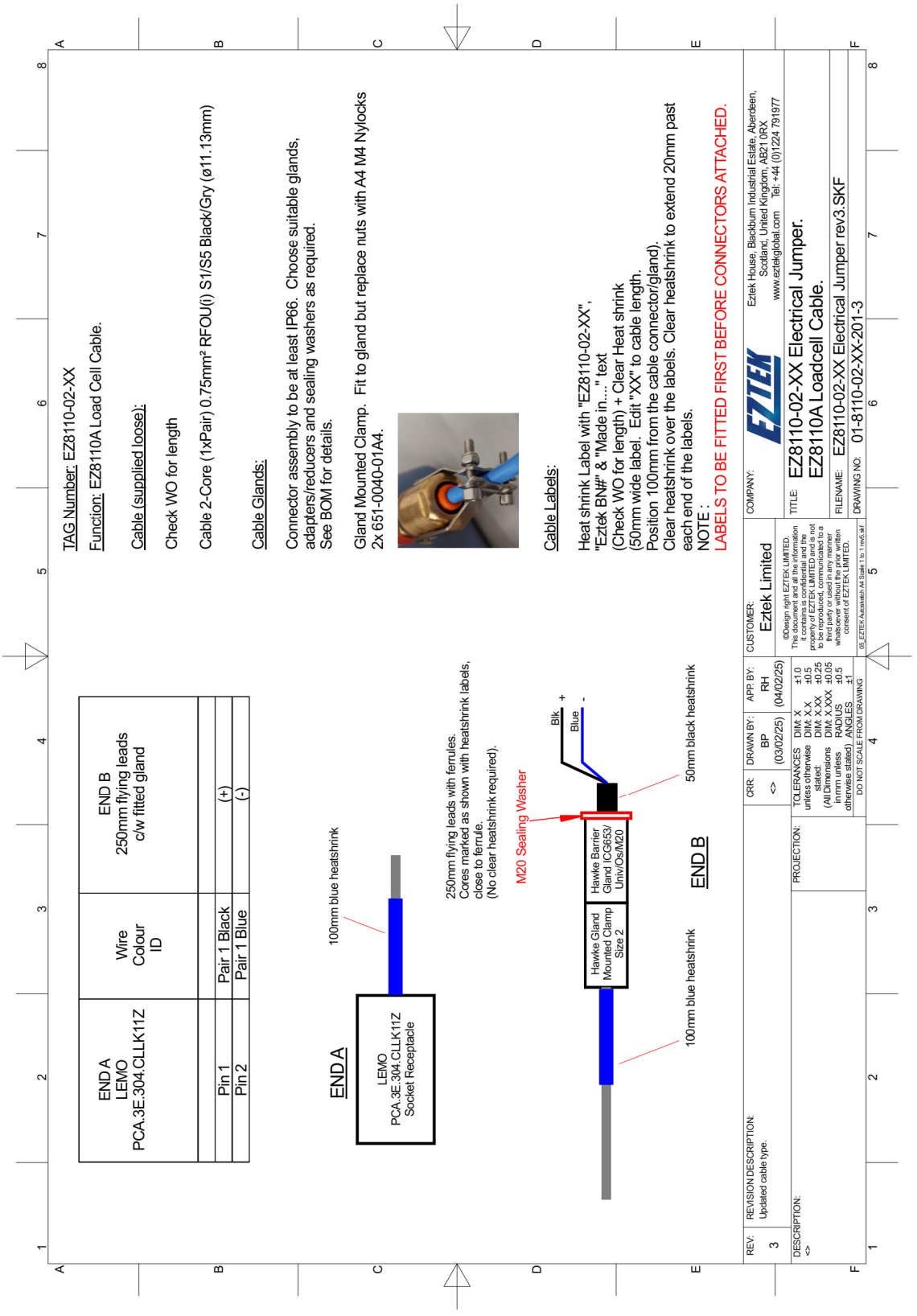
COMPANY: EZTEK LIMITED ABERDEEN SCOTLAND TEL.: 44 (0) 1224 791977 FAX.: 44 (0) 1224 791399 www.eztek.co.uk info@eztek.co.uk

TITLE: EZ8110-01-XX Electrical Jumper.
EZ8110A Power Cable.

FILENAME: EZ8110-01-XX Electrical Jumper rev2.SKF

DRAWING NO: 01-8110-01-XX-201-2

EZ8110-02-XX Wiring Details


TAG Number: EZ8110-02-XX
Function: EZ8110A Load Cell Cable.
Cable (supplied loose):
Check WO for length
Cable 2-Core (1xPair) 0.75mm² RFOU(i) S1/S5 Black/Gry (ø11.13mm)
Cable Glands:
Connector assembly to be at least IP66. Choose suitable glands, adapters/reducers and sealing washers as required. See BOM for details.
Gland Mounted Clamp. Fit to gland but replace nuts with A4 M4 Nylocks 2x 651-0040-01A4.
Cable Labels:
Heat shrink Label with "EZ8110-02-XX", "Eztek BN#" & "Made in...." text (Check WO for length) + Clear Heat shrink (50mm wide label. Edit "XX" to cable length. Position 100mm from the cable connector/gland). Clear heatshrink over the labels. Clear heatshrink to extend 20mm past each end of the labels.
NOTE :
LABELS TO BE FITTED FIRST BEFORE CONNECTORS ATTACHED.
END A LEMO PCA.3E.304.CLLK11Z
Wire Colour ID
END B 250mm flying leads c/w fitted gland
Pin 1 | Pair 1 Black | (+)
Pin 2 | Pair 1 Blue | (-)
END A
LEMO PCA.3E.304.CLLK11Z Socket Receptacle
100mm blue heatshrink
250mm flying leads with ferrules. Cores marked as shown with heatshrink labels, close to ferrule. (No clear heatshrink required).
M20 Sealing Washer
Hawke Gland Mounted Clamp Size 2
Hawke Barrier Gland (CG653/ Univ/Os/M20
Blk +
Blue -
50mm black heatshrink
100mm blue heatshrink
END B
REV: 3
REVISION DESCRIPTION: Updated cable type.
DESCRIPTION: <>
CRR: <>
DRAWN BY: BP (03/02/25)
APP. BY: RH (04/02/25)
PROJECTION:
TOLERANCES unless otherwise stated: (All Dimensions in mm unless otherwise stated)
DIM: X ±1.0
DIM: X.X ±0.5
DIM: X.XX ±0.25
DIM: X.XXX ±0.05
RADIUS ±0.5
ANGLES ±1
DO NOT SCALE FROM DRAWING
CUSTOMER: Eztek Limited
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05_EZTEK Autodesk\A4 Scale 1 to 1 rev5.dwt
COMPANY: EZTEK
Eztek House, Blackburn Industrial Estate, Aberdeen, Scotland, United Kingdom, AB21 0PX
www.eztekglobal.com Tel: +44 (0)1224 791977
TITLE: EZ8110-02-XX Electrical Jumper. EZ8110A Loadcell Cable.
FILENAME: EZ8110-02-XX Electrical Jumper rev3.SKF
DRAWING NO: 01-8110-02-XX-201-3

EZ8110-03-XX Wiring Details

TAG Number: EZ8110-03-XX

Function: EZ8110A Encoder Cable.

Cable (supplied loose):

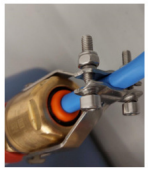
Check WO for length

Cable 2-Core (1xPair) 0.75mm² RFOU(i) S1/S5 Black/Gry (ø11.13mm)

Cable Glands:

Connector assembly to be at least IP66. Choose suitable glands, adapters/reducers and sealing washers as required. See BOM for details.

Gland Mounted Clamp. Fit to gland but replace nuts with A4 M4 Nylocks 2x 651-0040-01A4.



Cable Labels:

Heat shrink Label with "EZ8110-03-XX", "Eztek BN#" & "Made in...." text (Check WO for length) + Clear Heat shrink (50mm wide label. Edit "XX" to cable length. Position 100mm from the cable connector/gland). Clear heatshrink over the labels. Clear heatshrink to extend 20mm past each end of the labels.

NOTE :

LABELS TO BE FITTED FIRST BEFORE CONNECTORS ATTACHED.

END A LEMO PCA.3E.303.CLLK11Z	Wire Colour ID	END B 250mm flying leads c/w fitted gland
Pin 1	Pair 1 Black	+
Pin 2	Pair 1 Blue	-

END A

LEMO PCA.3E.303.CLLK11Z 3 Way Socket Receptacle

100mm blue heatshrink

250mm flying leads with ferules. Cores marked as shown with heatshrink labels, Close to ferrules. (No clear heatshrink required).

M20 Sealing Washer

Hawke Gland Mounted Clamp Size 2

Hawke Barrier Gland ICG653/ Univ/Os/M20

Black +

Blue -

50mm black heatshrink

END B

100mm blue heatshrink

REV:	REVISION DESCRIPTION:	CRR:	DRAWN BY:	APP BY:
3	Updated Cable Type.	<>	BP (03/02/25)	RH (04/02/25)

DESCRIPTION: <>

PROJECTION:

TOLERANCES unless otherwise stated: (All Dimensions in mm unless otherwise stated)

DIM. X	±1.0
DIM. X.X	±0.5
DIM. X.XX	±0.25
DIM. X.XXX	±0.05
RADIUS	±0.5
ANGLES	±1

DO NOT SCALE FROM DRAWING

CUSTOMER: Eztek Limited

COMPANY: EZTEK

Eztek House, Blackburn Industrial Estate, Aberdeen, Scotland, United Kingdom, AB21 0RX
www.eztekglobal.com Tel: +44 (0)1224 791977

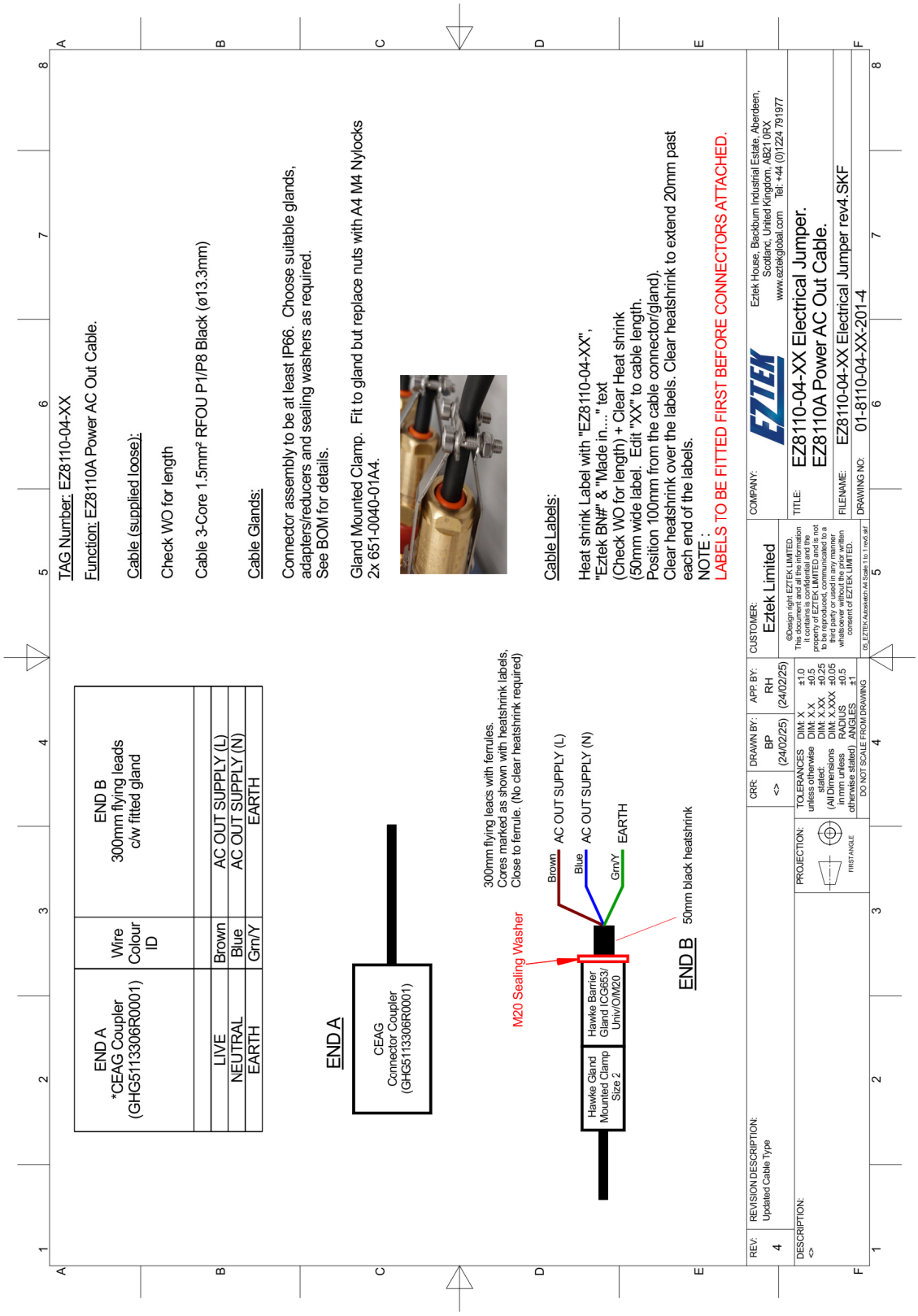
TITLE: EZ8110-03-XX Electrical Jumper.
EZ8110A Encoder Cable.

FILENAME: EZ8110-03-XX Electrical Jumper rev3.SKF

DRAWING NO: 01-8110-03-XX-201-3

05_EZTEK Autosketch A4 Scale 1 to 1 revG.akf

EZ8110-04-XX Wiring Details


TAG Number: EZ8110-04-XX
Function: EZ8110A Power AC Out Cable.
Cable (supplied loose):
Check WO for length
Cable 3-Core 1.5mm² RFOU P1/P8 Black (ø13.3mm)
Cable Glands:
Connector assembly to be at least IP66. Choose suitable glands, adapters/reducers and sealing washers as required. See BOM for details.
Gland Mounted Clamp. Fit to gland but replace nuts with A4 M4 Nylocks 2x 651-0040-01A4.
Cable Labels:
Heat shrink Label with "EZ8110-04-XX", "Eztek BN#" & "Made in...." text (Check WO for length) + Clear Heat shrink (50mm wide label. Edit "XX" to cable length. Position 100mm from the cable connector/gland). Clear heatshrink over the labels. Clear heatshrink to extend 20mm past each end of the labels.
NOTE :
LABELS TO BE FITTED FIRST BEFORE CONNECTORS ATTACHED.
END A
*CEAG Connector Coupler (GHG5113306R0001)
Wire Colour ID
END B
300mm flying leads c/w fitted gland
LIVE
Brown
AC OUT SUPPLY (L)
NEUTRAL
Blue
AC OUT SUPPLY (N)
EARTH
Grn/Y
EARTH
CEAG Connector Coupler (GHG5113306R0001)
300mm flying leacs with ferrules.
Cores marked as shown with heatshrink labels.
Close to ferrule. (No clear heatshrink required)
M20 Sealing Washer
Brown
AC OUT SUPPLY (L)
Blue
AC OUT SUPPLY (N)
Grn/Y
EARTH
Hawke Gland Mounted Clamp Size 2
Hawke Barrier Gland ICG653/ Univ/O/M20
END B
50mm black heatshrink
REV: 4
REVISION DESCRIPTION: Updated Cable Type
DESCRIPTION: <>
CRR: <>
DRAWN BY: BP (24/02/25)
APP. BY: RH (24/02/25)
PROJECTION:
FIRST ANGLE
TOLERANCES unless otherwise stated: (All Dimensions in mm unless otherwise stated)
DIM: X ±1.0
DIM: X.X ±0.5
DIM: X.XX ±0.25
DIM: X.XXX ±0.05
RADIUS ±0.5
ANGLES ±1
DO NOT SCALE FROM DRAWING
CUSTOMER: Eztek Limited
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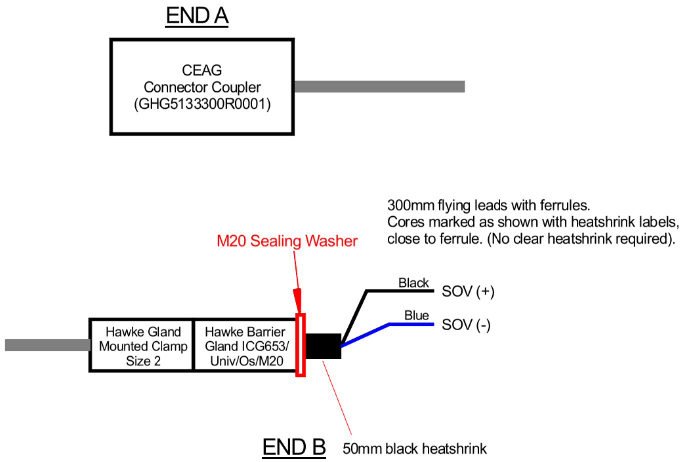
05_EZTEK Autosketch A4 Scale 1 to 1 rev5.ast
COMPANY: EZTEK
Eztek House, Blackburn Industrial Estate, Aberdeen, Scotland, United Kingdom, AB21 0RX
www.eztekglobal.com Tel: +44 (0)1224 791977
TITLE: EZ8110-04-XX Electrical Jumper. EZ8110A Power AC Out Cable.
FILENAME: EZ8110-04-XX Electrical Jumper rev4.SKF
DRAWING NO: 01-8110-04-XX-201-4

EZ8110-05-XX Wiring Details

END A *CEAG Coupler (GHG5133300R0001)	Wire Colour ID	END B 300mm flying leads c/w fitted gland
1 (+)	Pair 1 Black	SOV (+)
2 (-)	Pair 1 Blue	SOV (-)



TAG Number: EZ8110-05-XX

Function: EZ8110A SOV Cable.

Cable (supplied loose):

Check WO for length

Cable 2-Core (1xPair) 0.75mm² RFOU(i) S1/S5 Black/Gry (ø11.13mm)

Cable Glands:

Connector assembly to be at least IP66. Choose suitable glands, adapters/reducers and sealing washers as required.
See BOM for details.

Gland Mounted Clamp. Fit to gland but replace nuts with A4 M4 Nylocks
2x 651-0040-01A4.

Cable Labels:

Heat shrink Label with "EZ8110-05-XX",
"Eztek BN#" & "Made in...." text
(Check WO for length) + Clear Heat shrink
(50mm wide label. Edit "XX" to cable length.
Position 100mm from the cable connector/gland).
Clear heatshrink over the labels. Clear heatshrink to extend 20mm past each end of the labels.
NOTE :
LABELS TO BE FITTED FIRST BEFORE CONNECTORS ATTACHED.

REV:	REVISION DESCRIPTION:	CRR:	DRAWN BY:	APP. BY:	CUSTOMER:	COMPANY:
2	Updated cable type.	<>	BP (03/02/25)	RH (04/02/25)	Eztek Limited	EZTEK — Eztek House, Blackburn Industrial Estate, Aberdeen, Scotland, United Kingdom, AB21 0RX www.eztekglobal.com Tel: +44 (0)1224 791977

DESCRIPTION: <>

PROJECTION: FIRST ANGLE

TOLERANCES unless otherwise stated: (All Dimensions in mm unless otherwise stated) DIM: X ±1.0; DIM: X.X ±0.5; DIM: X.XX ±0.25; DIM: X.XXX ±0.05; RADIUS ±0.5; ANGLES ±1

DO NOT SCALE FROM DRAWING

05_EZTEK Autosketch A4 Scale 1 to 1 rev5.skf

TITLE: EZ8110-05-XX Electrical Jumper.
EZ8110A Power SOV Cable.

FILENAME: EZ8110-05-XX Electrical Jumper rev2.SKF

DRAWING NO: 01-8110-05-XX-201-2

15.0 Bill of Materials

EZ8110A Bill of Materials

Section 15 continued

Parts List for Assembly P/N: EZ8110A

Printed 20/03/25

EZ8110A

Zone 1 Wifi Torque Unit

Type	CAT	Temp. Rating
Revision	5	Ex Certicate
Status	R	Impact Tested
Date	14/06/2023	Preferred Item
By	BL	User 5

Rev 5: Added 1x 504-0011-02A, 504-0011-06A, 457-0024-17 replaced with 457-0010-02 (BP 19/03/25)

Rev 4: Added 1x 502-0200-22 Fuse
Rev 3: Removed 605-0120-03 and 457-0001-01 as not used (JB 29/09/2024)
Rev 2: Added x3 457-0022-99 (JB 28/08/24)
Rev 1: Replaced 1x 457-0024-00 End Stop with 1x 457-0010-03 Earth Terminal (BP 21/05/24)

Item	P/N	Title	Reference(t)	Qty
1	352-0015-00	Waveshare RS485 to WIFI/Ethernet Converter	RS485 CONVERTER	1
2	381-0001-00	Barrier Assembly P+F K-Series Switch Amplifier Dual	BARRIER	1
3	381-0027-01	Barrier Assembly P+F K-Series SMART Transmitter Power Supply	BARRIER	1
4	381-6002-01	Extronics Antenna Barrier Kit	ANTENNA BARRIER KIT	1
5	381-6002-99	Extronics Antenna Barrier Accessory	ANTENNA	1
6	457-0001-10	DIN Rail Term. WEIDMULLER End Cover Beige	END COVER	1
7	457-0010-02	DIN Rail Term. WEIDMULLER Earth Terminal 6mm Pitch (4mm²)	EARTH TERMINAL	2
8	457-0023-00	DIN Rail Term. TE SNK Series (Ex) Double Deck 4mm² Grey	DIN RAIL TERMINAL	1
9	457-0023-99	DIN Rail Term. TE SNK Series (Ex) Double Deck Dark Grey End Cover	DIN RAIL TERMINAL END COVER	1
10	457-0024-00	DIN Rail Term. TE SNK Series (Ex) End Stop	DIN RAIL TERMINAL END STOP	4
11	457-0024-02	DIN Rail Term. TE SNK Series Fused	DIN RAIL FUSED TERMINAL	2
12	502-0200-22	Fuse 20x5mm Anti Surge HBC Ceramic	FUSE	1
13	504-0011-02A	Circuit Breaker ABB SN201 Series MCB	MCB 2A AC IN	1
14	504-0011-06A	Circuit Breaker ABB SN201 Series MCB	MCB 6A AC OUT	1
15	533-0003-03	Siemens Logo PSU AC-DC I/P 100-240V O/P 24V/2.5A	PSU	1
16	610-0070-01	Enclosure Technor Italsmea EJB-2 Eztek Type 1	ENCLOSURE	1
17	691-8110A-01	Lid Label Black Text on White	SN LABEL	1
18	691-8110A-02	FuseLabel Black Text on Yellow	FUSE LABEL	1
19	693-0100-00	DIN Rail Standard Plain 35x7.5mm Zinc Plated Steel	DIN RAIL	AR
20	694-8110A-01	Top Plate	TOP PLATE	1
21	EZ8109A	Torque DAQ	TORQUE DAQ	1

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01224 791977

EZ8110-01-XX Bill of Materials

Parts List for Assembly P/N: EZ8110-01-XX

Printed 20/03/24

EZ8110-01-XX

Zone 1 Wifi Torque Unit Accessory
Power Cable

Rev 2: Updated Ceag connector from 474-0004-02-EX to 474-0004-01 BP 07/03/24

Type	CAT	Temp. Rating	
Revision	2	Ex Certificate	
Status	R	Impact Tested	
Date	20/12/2023	User 4	
By	BP	User 5	

Item	P/N	Title	Reference(t)	Qty
1	474-0004-01	Connector CEAG Ex Plug 240V 16A Blue (No Cap)	CONNECTOR	1
2	574-0324-01	Cable 3-Core 1.5mm H07RNF (10.3mm O.D)	CABLE (CHECK WO FOR LENGTH)	XX
3	597-BK01-08	Heat Shrink General Black 2:1	HEATSHRINK	50
4	597-CL01-08	Heat Shrink General Clear 2:1	LABEL HEATSHRINK	180
5	605-1001-12	Cable Gland Ex Accessory Nylon Sealing Washer	NYLON WASHER	1
6	605-1015-01	Armoured Cable Barrier Gland Ex HAWKE ICG653 UNIV (O.D 5.5-12mm)	GLAND	1
7	605-1016-02	Cable Gland Accessory Ex HAWKE Gland Mounted Clamp	GLAND CLAMP	1
8	691-BATCH-03	BATCH# Printed Heatshrink Black on White	LABEL	2

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Eztek House, Blackburn Inudstrial Estate, Kinellar, Aberdeen, AB21 0RX
01224 791977

EZ8110-02-XX Bill of Materials

Parts List for Assembly P/N: EZ8110-02-XX

Printed 20/03/25

EZ8110-02-XX

Zone 1 Wifi Torque Unit Accessory
Loadcell Cable

Type	CAT	Temp. Rating	
Revision	3	Ex Certicate	
Status	R	Impact Tested	
Date	20/12/2023	Preferred Item	
By	BP	User 5	

Rev 3: Updated to meet Norsok Standards (BP 27/01/25)
574-0435-01 replaced with 574-0204-01 (cable OD to be confirmed by C.Sols)
432-03E0-02 replaced with 432-03E0-02A
432-03E9-03 replaced with 432-03E9-04

Item	P/N	Title	Reference(t)	Qty
1	432-03E0-02A	LEMO 3E Receptacle IP68 4-Pole Female Solder	CONNECTOR	1
2	574-0204-01	Cable 2-Core (1xPair) 0.75mm² RFOU(i) S1/S5 Black/Gry (ø11.13mm)	CABLE (CHECK WO FOR LENGTH)	XX
3	597-BL01-08	Heat Shrink General Blue 2:1	IS HEATSHRINK	AR
4	597-CL01-09	Heat Shrink General Clear 2:1	LABEL HEATSHRINK	AR
5	605-1001-12	Cable Gland Ex Accessory Nylon Sealing Washer	USE WITH GLAND FOR IP RATING	1
6	605-1015-01	Armoured Cable Barrier Gland Ex HAWKE ICG653 UNIV (O.D 5.5-12mm)	GLAND	1
7	605-1016-02	Cable Gland Accessory Ex HAWKE Gland Mounted Clamp	GLAND MOUNTING CLAMP	1
8	691-BATCH-03	BATCH# Printed Heatshrink Black on White	LABEL	2

Eztek Limited
Eztek House, Blackburn Inudstrial Estate, Kinellar, Aberdeen, AB21 0RX
01224 791977

EZ8110-03-XX Bill of Materials

Parts List for Assembly P/N: EZ8110-03-XX

Printed 20/03/25

EZ8110-03-XX

Zone 1 Wifi Torque Unit Accessory
Encoder Cable

Type	CAT	Temp. Rating	
Revision	3	Ex Certicate	
Status	R	Impact Tested	
Date	20/12/2023	Preferred Item	
By	BP	User 5	

Rev 3: Updated to meet Norsok Standards (BP 27/01/25)
574-0435-01 replaced with 574-0204-01 (cable OD to be confirmed by C.Sols)
432-03E0-01 replaced with 432-03E0-01A
432-03E9-03 replaced with 432-03E9-04

Item	P/N	Title	Reference(t)	Qty
1	432-03E0-01A	LEMO 3E Receptacle IP68 3-Pole Female Solder	CONNECTOR	1
2	574-0204-01	Cable 2-Core (1xPair) 0.75mm² RFOU(i) S1/S5 Black/Gry (ø11.13mm)	CABLE (CHECK WO FOR LENGTH)	XX
3	597-BL01-08	Heat Shrink General Blue 2:1	IS HEATSHRINK	AR
4	597-CL01-09	Heat Shrink General Clear 2:1	LABEL HEATSHRINK	AR
5	605-1001-12	Cable Gland Ex Accessory Nylon Sealing Washer	USE WITH GLAND FOR IP RATING	1
6	605-1015-01	Armoured Cable Barrier Gland Ex HAWKE ICG653 UNIV (O.D 5.5-12mm)	GLAND	1
7	605-1016-02	Cable Gland Accessory Ex HAWKE Gland Mounted Clamp	GLAND MOUNTING CLAMP	1
8	691-BATCH-03	BATCH# Printed Heatshrink Black on White	LABELS	2

Eztek Limited
Eztek House, Blackburn Inudstrial Estate, Kinellar, Aberdeen, AB21 0RX
01224 791977

EZ8110-04-XX Bill of Materials

Parts List for Assembly P/N: EZ8110-04-XX

Printed 20/03/25

EZ8110-04-XX

Zone 1 Wifi Torque Unit Accessory
Power AC Out Cable

Rev 3: Updated to meet Norsok Standards (BP 27/01/25)
574-0324-01 replaced with 574-0304-01
605-1015-01 replaced with 605-1015-02

Type	CAT	Temp. Rating	
Revision	3	Ex Certicate	
Status	R	Impact Tested	
Date	07/03/2024	Preferred Item	
By	BP	User 5	

Item	P/N	Title	Reference(t)	Qty
1	474-0004-02-EX	Connector CEAG Ex Coupler 240V 16A Blue (c/w CAP)	CONNECTOR	1
2	574-0304-01	Cable 3-Core 1.5mm² RFOU P1/P8 (0.6/1kV) Black (ø13.33mm)	CABLE (CHECK WO FOR LENGTH)	XX
3	597-BK01-09	Heat Shrink General Black 2:1	HEATSHRINK	50
4	597-CL01-09	Heat Shrink General Clear 2:1	LABEL HEATSHRINK	180
5	605-1001-12	Cable Gland Ex Accessory Nylon Sealing Washer	NYLON WASHER	1
6	605-1015-02	Armoured Cable Barrier Gland Ex HAWKE ICG653 UNIV (O.D 9.5-16mm)	GLAND	1
7	605-1016-02	Cable Gland Accessory Ex HAWKE Gland Mounted Clamp	GLAND CLAMP	1
8	691-BATCH-03	BATCH# Printed Heatshrink Black on White	LABEL	1

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EZ8110-05-XX Bill of Materials

Parts List for Assembly P/N: EZ8110-05-XX

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Zone 1 Wifi Torque Unit Accessory
Power SOV Cable

Type	CAT	Temp. Rating	
Revision	1	Ex Certicate	
Status	U	Impact Tested	
Date	07/03/2024	Preferred Item	
By	BP	User 5	

Rev 1: Updated to meet Norsok Standards (BP 27/01/25)
574-0435-01 replaced with 574-0204-01 (cable OD to be confirmed by C.Sols)

Item	P/N	Title	Qty	Reference(t)
1	474-0003-02	Connector CEAG Ex Socket Coupler 24V 16A Purple (c/w Cap)	1	CONNECTOR
2	574-0204-01	Cable 2-Core (1xPair) 0.75mm² RFOU(i) S1/S5 Black/Gry (ø11.13mm)	XX	CABLE (CHECK WO FOR LENGTH)
3	597-BK01-08	Heat Shrink General Black 2:1	50	HEATSHRINK
4	597-CL01-09	Heat Shrink General Clear 2:1	180	LABEL HEATSHRINK
5	605-1001-12	Cable Gland Ex Accessory Nylon Sealing Washer	1	NYLON WASHER
6	605-1015-01	Armoured Cable Barrier Gland Ex HAWKE ICG653 UNIV (O.D 5.5-12mm)	1	GLAND
7	605-1016-02	Cable Gland Accessory Ex HAWKE Gland Mounted Clamp	1	GLAND CLAMP
8	691-BATCH-03	BATCH# Printed Heatshrink Black on White	2	LABEL

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16.0 MODIFICATION HISTORY

Date	Revision	Description	Prepared By	Authorised By
17/04/25	7	Updated Cert Label	BP	RH

17.0 MANUFACTURE CONTACT INFORMATION

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End of Manual