



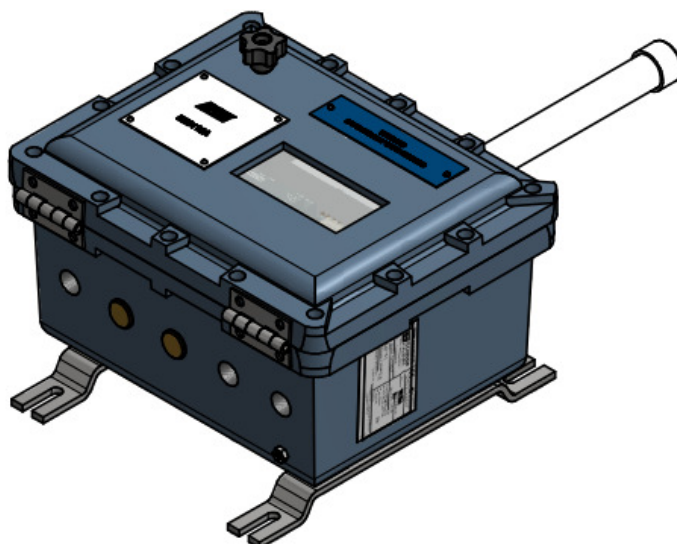
EZ8110A

Zone 1 Wifi Torque Unit

Operation, Installation & Maintenance

Manual

Rev 2.00 dated 20/05/2024.



EZ8110A O.I.M

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

EZ8110A O.I.M

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The author assumes no responsibility for any errors or omissions that may appear in this document nor does the author make a commitment to update the information herein.

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 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:

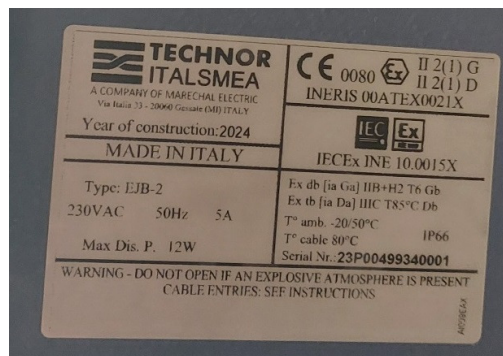
- Flameproof enclosure
- Suitable for Zone 1 hazardous area environment
- 1x Intrinsically Safe 4-20mA Current loop input for torque
- 1x Intrinsically Safe Encoder input for encoder
- 1 x Solenoid output
- 1 x AC Output
- Internal Wireless to serial Adapter
- External Atex Intrinsically Safe Wireless 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. (see example label below).



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 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.

If any damage is found, the enclosure 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.

To maintain IP66 rating the enclosure flange joint must be coated with silicone grease. Lid screws must be greased with Loctite 8104 or similar. Lid screw torque settings 10Nm.

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.

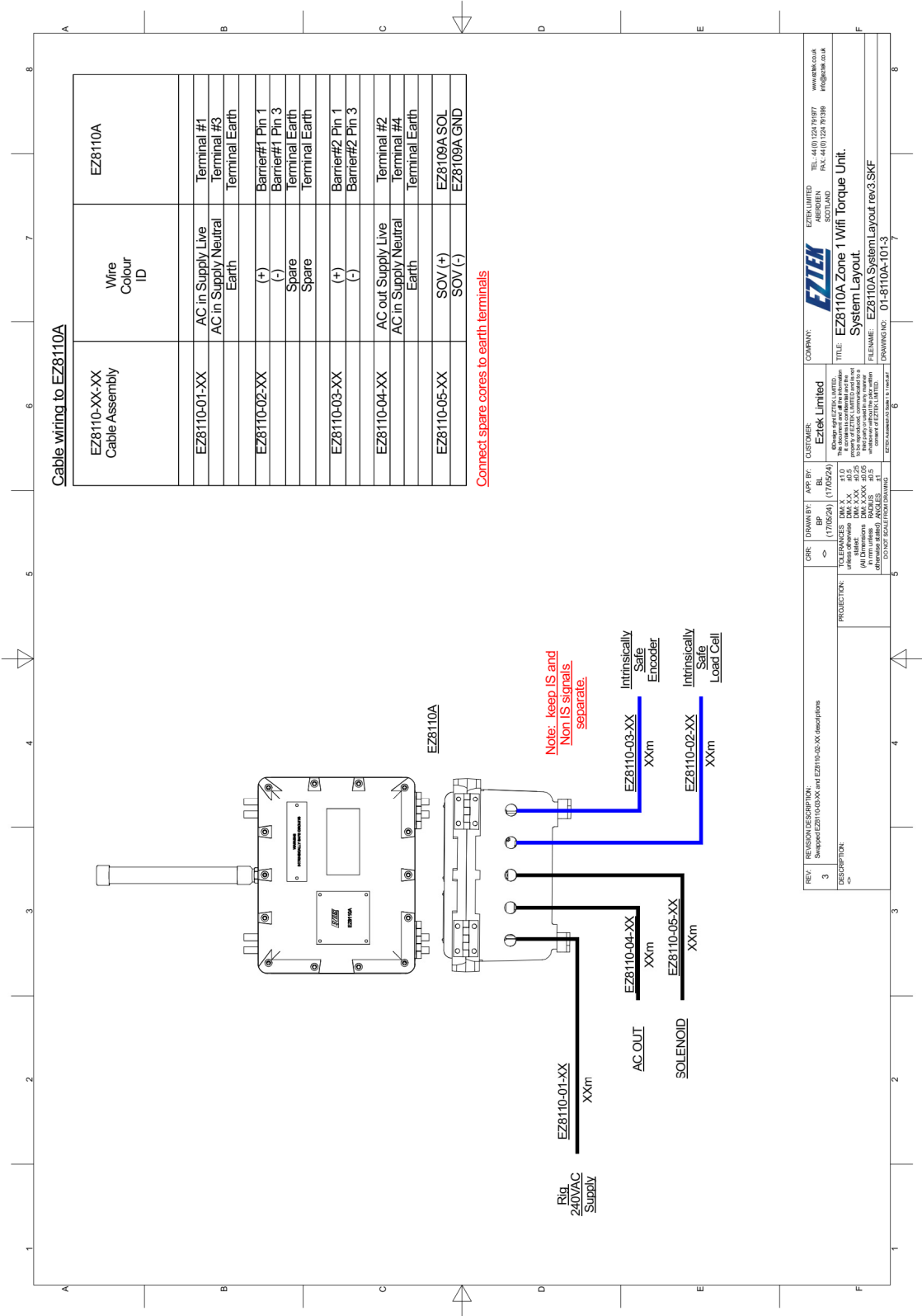


Before installation inspect the EZ8110A for any visible damage, check if seals, connectors, and glands are damaged. Ensure that the lid is closed. If any damage is found return the system for repair as any damage could invalidate system certification.

Installation should be carried out by a qualified engineer.

EZ8110A O.I.M

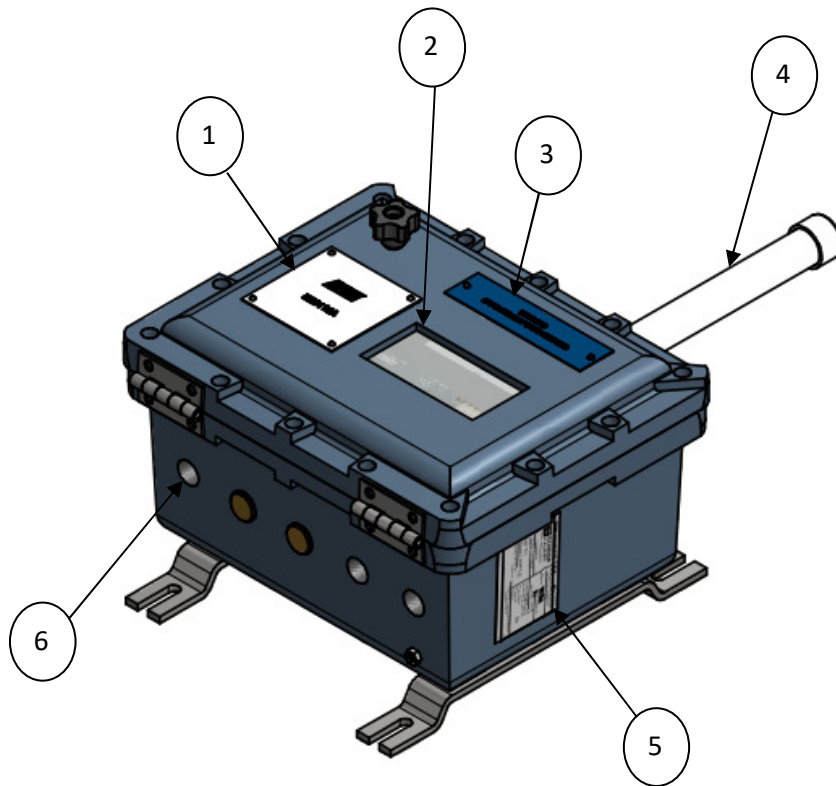
Section 9 continued



EZ8110A BLOCK DIAGRAM

EZ8110A O.I.M

Section 9 continued

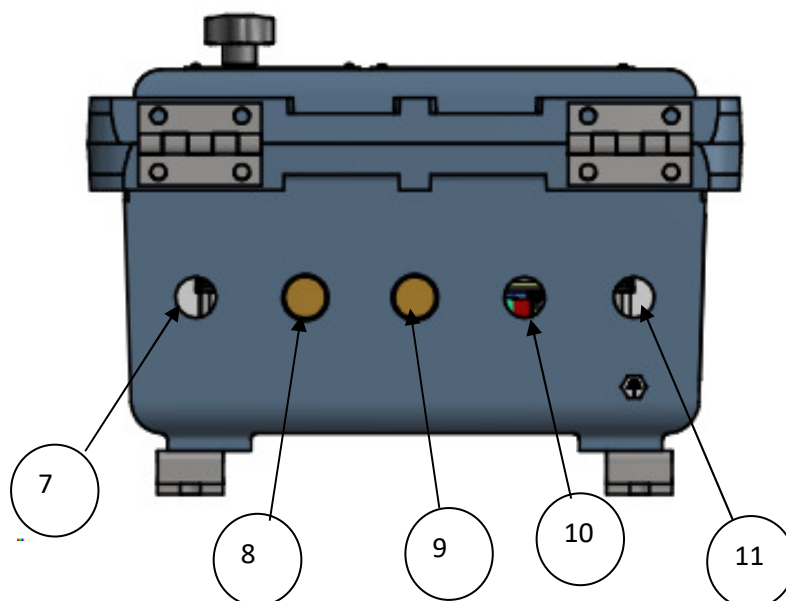


EZ8110A General Layout

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 O.I.M

Section 9 continued



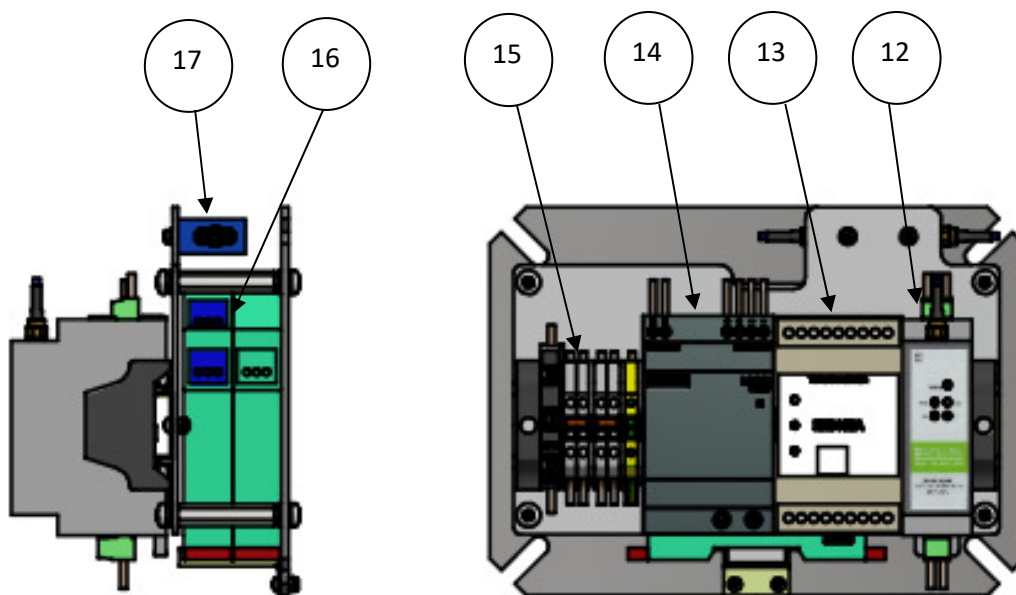
EZ8110A Bottom Layout

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 O.I.M

Section 9 continued



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. AC Terminals
- 16. Intrinsically Safe Barriers
- 17. Intrinsically Safe RF Barrier

EZ8110A O.I.M

Section 9 continued

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 EN 50525-2-21 Cable is used. 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 (T) 20x5mm fuse. The linked AC Out terminals are not fuse protected.



EZ8110A AC In Power Terminals

EZ8110A AC In Power Wiring:

Terminal# 1: Live

Terminal #3: Neutral

Terminal Earth: Earth

Please refer to section 14 for wiring drawings.

EZ8110A O.I.M

Section 9 continued

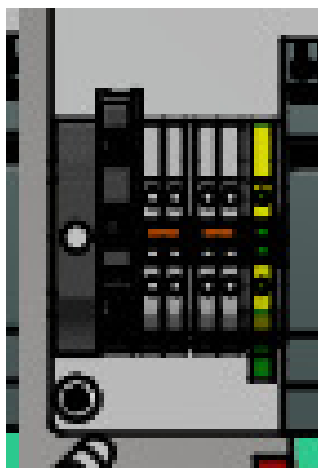
AC Out connection



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 EN 50525-2-21 Cable is used. For correct cable gland assembly please refer to cable gland manufacturer's instructions.

The EZ8110-04-XX cable is connected to the internal terminals of the EZ8110A. The AC Out feed is not fuse protected.



EZ8110A AC Out Power Wiring:

Terminal# 2: Live

Terminal #4: Neutral

Terminal Earth: Earth

EZ8110A AC Out Power Terminals

Please refer to section 14 for wiring drawings.

EZ8110A O.I.M

Section 9 continued

Solenoid connection



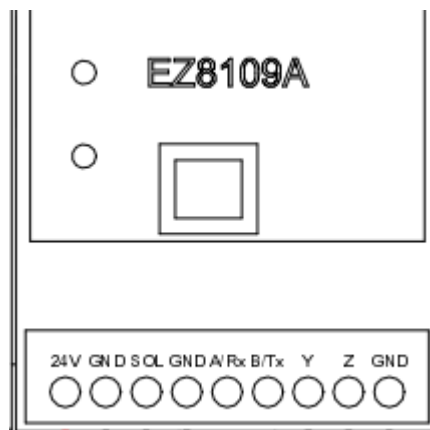
Please refer to section 6 for important information and special conditions before carrying out installation.

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 EN 50525-2-21 Cable is used. For correct cable gland assembly please refer to cable gland manufacturer's instructions.

The Solenoid cable is to be connected directly to the EZ8109A Torque DAQ Module.

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



EZ8110A Solenoid Wiring:

EZ8109A SOL: Solenoid +

EZ8109A GND: Solenoid -

EZ8110A Solenoid Terminals

Encoder connection.

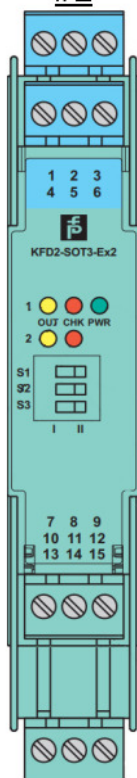
Please refer to section 6 for important information and special conditions before carrying out installation.

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 a UL AWM 20668 VW-1, CSA AWM I/II A/B FT-1 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. Any spare cores should be terminated to earth.

Barrier
#2



Barrier #2

1: Phase A+
3: Phase A-
4: Phase B+
6: Phase B-

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 a UL AWM 20668 VW-1, CSA AWM I/II A/B FT-1 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



Barrier #1

1: +

3: -

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

EZ8110A O.I.M

Section 10 continued

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



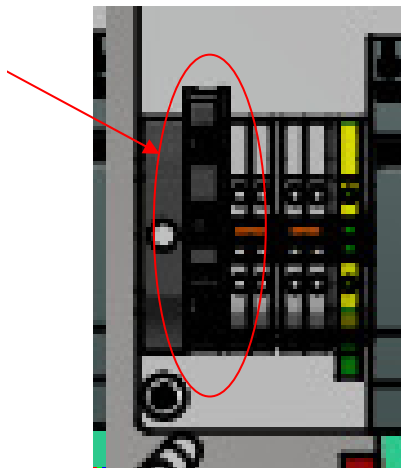
Any modification or unauthorized repair of the EZ8110A system may affect compliance with the ATEX standard. The system should only be opened, and installation and maintenance work be carried out in a safe area, the system should NEVER be opened in a hazardous area unless the engineer/operator is under 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

TallyBook will not switch on. – Check and replace the AC 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.



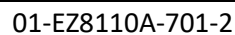
ESD sensitive equipment inside, observe precautions when handling ESD sensitive equipment.

- 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

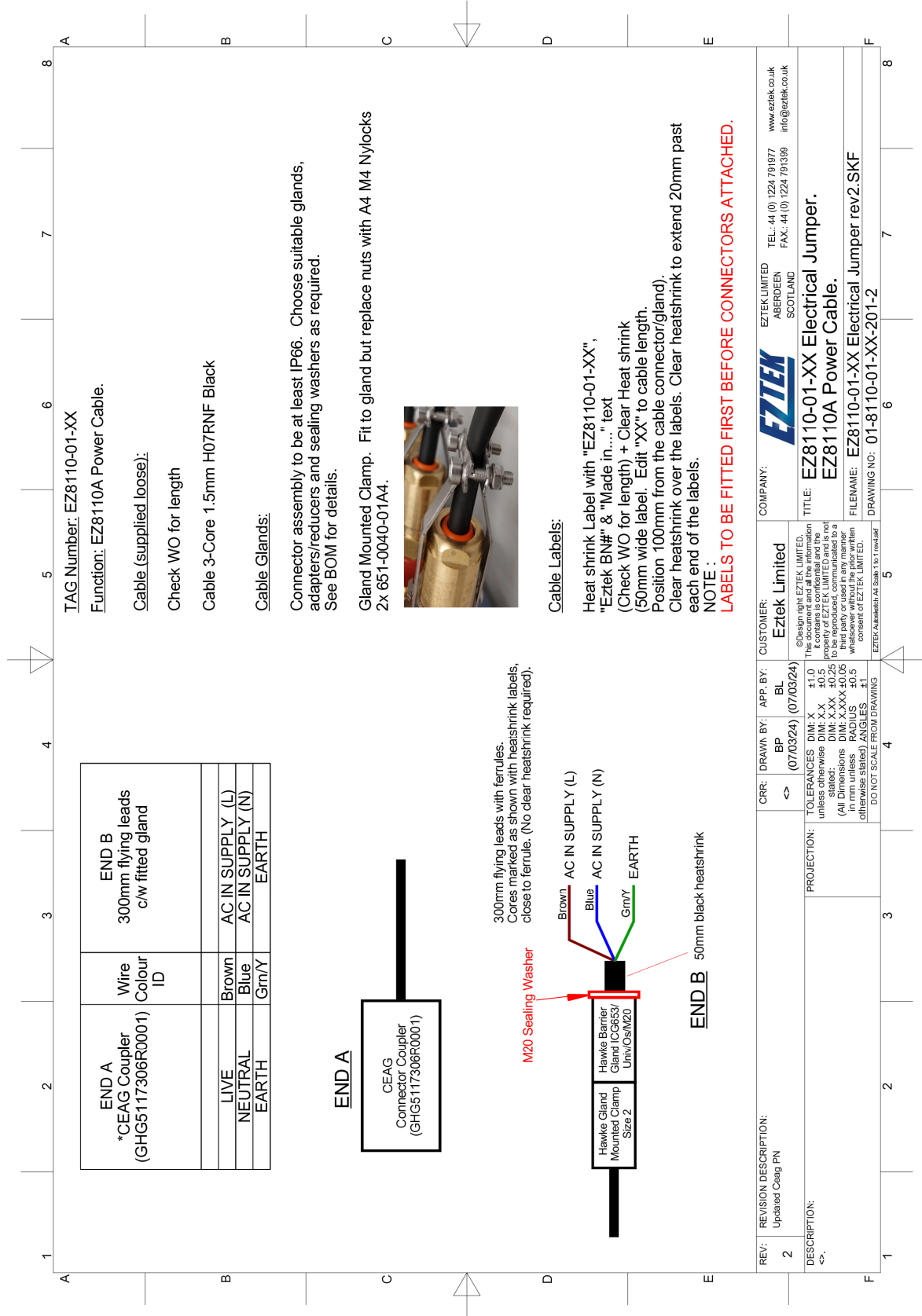
Section 14 continued



EZ8110-01-XX Wiring Details

Section 14 continued

Section 14 continued



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	Gm/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).

M20 Sealing Washer

Diagram illustrating the connection of three AC supply lines (Brown, Blue, Green/Y) to a common point, with labels 'AC IN SUPPLY (L)', 'AC IN SUPPLY (N)', and 'EARTH'.

END B 50mm black heatshrink

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.

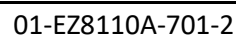
NOTE:

NOTE:
LABELS TO BE FITTED FIRST BEFORE CONNECTORS ATTACHED.

REV:	REVISION DESCRIPTION:	CRR:	DRAWN BY:	APP. BY:	CUSTOMER:	COMPANY:	TEL: 44 (0) 1224 791977 FAX: 44 (0) 1224 791399 info@eztek.co.uk
2	Updated Crag PN	BP <=>	BL (07/03/24)	BL (07/03/24)	Eztek Limited	ABERDEEN SCOTLAND	
DESCRIPTION:		PROJECTION: TOLERANCES DIM: X ±1.0 DIM: X.X ±0.5 unless otherwise stated: DIM: X.XX ±0.25 DIM: X.XXX ±0.05 (All Dimensions in mm unless stated) RADIUS ±0.5 DIMENSIONED SURF. ANGLES ±1 ©Design Right EZTEK LIMITED. This document and all the information it contains is confidential and the property of Eztek Limited. It is not to be reproduced, communicated to a third party or used in any manner whatsoever without the prior written permission of Eztek Limited.					
		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

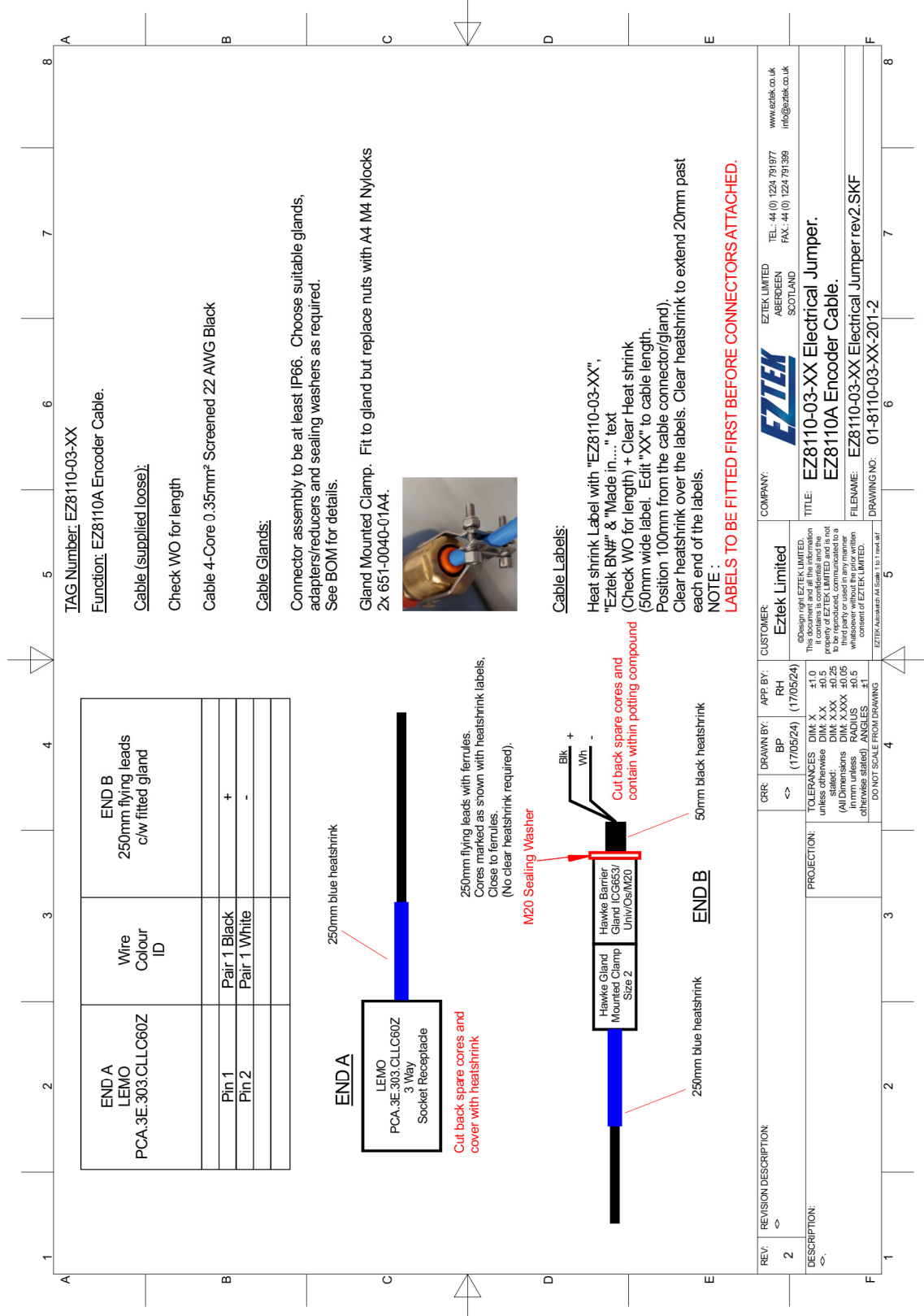
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EZ8110-03-XX Wiring Details

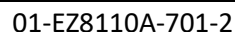
EZ8110A O.I.M

Section 14 continued



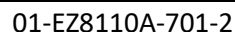
EZ8110-04-XX Wiring Details

Section 14 continued



EZ8110-05-XX Wiring Details

Section 14 continued



15.0 Bill of Materials

EZ8110A Bill of Materials

Section 15 continued

EZ8110A O.I.M

Section 15 continued

Parts List for Assembly P/N: EZ8110A

Printed 20/03/24

EZ8110A

Zone 1 Wifi Torque Unit

Type	CAT	Temp. Rating
Revision	0	Ex Certificate
Status	R	Impact Tested
Date	14/06/2023	User 4
By	BL	User 5

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	457-0000-01	DIN Rail Term. WEIDMULLER End Stop	END STOP	1
7	457-0022-01	DIN Rail Term. TE SNK Series (Ex) 4mm ² Grey	DIN RAIL TERMINAL	4
8	457-0024-00	DIN Rail Term. TE SNK Series (Ex) End Stop	DIN RAIL TERMINAL END STOP	2
9	457-0024-02A	DIN Rail Term. TE SNK Series Fused	DIN RAIL FUSED TERMINAL	1
10	457-0024-02B	DIN Rail Term. TE SNK Series End Cover	DIN RAIL FUSED TERMINAL END COVER	1
11	457-0024-03	DIN Rail Term. TE SNK Series (Ex) JB5 Jumper 32A	DIN RAIL TERMINAL JUMPER	2
12	457-0024-15	DIN Rail Term. TE SNK Series (Ex) Earth 4mm ²	DIN RAIL EARTH TERMINAL	1
13	533-0003-03	Siemens Logo Ex PSU AC-DC I/P 100-240V O/P 24V/2.5A	PSU	1
14	605-0120-03	Stopping Plug Ex RAXTON CF Brass	STOPPING PLUG	2
15	610-0070-01	Enclosure Technor Italsmea EJB-2 Eztek Type 1	ENCLOSURE	1
16	691-8110A-01	Lid Label Black Text on White	SN LABEL	1
17	693-0100-00	DIN Rail Standard Plain 35x7.5mm Zinc Plated Steel	DIN RAIL	AR
18	694-8110A-01	Top Plate	IS SHIELD	1
19	694-8110A-02	Bracket for Wifi Antenna on Demo Base Plate Unit	ANTENNA BRACKET FOR DEMO UNIT	1
20	EZ8109A	Torque DAQ	TORQUE DAQ	1

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

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

Printed 20/05/24

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Zone 1 Wifi Torque Unit Accessory
Loadcell Cable

Rev 1: Added 605-1001-12 Nylon sealing washer (JB 16/02/24)
Rev2: Swapped description to load cell cable (BP 17/05/24)

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	432-03E0-02	LEMO 3E Receptacle IP68 4-Pole Female Solder	CONNECTOR	1
2	432-03E9-03	LEMO 3E Bend Relief Grey (Cable O.D. 6-6.9mm)	STRAIN RELIEF	1
3	456-0013-04	Connector Cap Plug Yellow	CONNECTOR CAP PLUG	1
4	574-0435-01	Cable 4-Core 0.35mm² Screened 22 AWG (O.D. 5.99mm)	CABLE (CHECK WO FOR LENGTH)	XX
5	597-BL01-07	Heat Shrink General Blue 2:1	IS HEATSHRINK	AR
6	597-CL01-07	Heat Shrink General Clear 2:1	LABEL HEATSHRINK	AR
7	605-1001-12	Cable Gland Ex Accessory Nylon Sealing Washer	USE WITH GLAND FOR IP RATING	1
8	605-1015-01	Armoured Cable Barrier Gland Ex HAWKE ICG653 UNIV (O.D 5.5-12mm)	GLAND	1
9	605-1016-02	Cable Gland Accessory Ex HAWKE Gland Mounted Clamp	GLAND MOUNTING CLAMP	1
10	691-BATCH-03	BATCH# Printed Heatshrink Black on White	LABEL	2

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

Printed 20/05/24

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Zone 1 Wifi Torque Unit Accessory
Encoder Cable

Rev 1: Added 605-1001-12 Nylon sealing washer (JB 16/02/24)
Rev 2: Changed description to Encoder Cable (BP 17/05/24)

Type	CAT	Temp. Rating
Revision	1	Ex Certificate
Status	R	Impact Tested
Date	20/12/2023	User 4
By	BP	User 5

Item	P/N	Title	Reference(t)	Qty
1	432-03E0-01	LEMO 3E Receptacle IP68 3-Pole Female Solder	CONNECTOR	1
2	432-03E9-03	LEMO 3E Bend Relief Grey (Cable O.D. 6-6.9mm)	STRAIN RELIEF	1
3	456-0013-04	Connector Cap Plug Yellow	CONNECTOR CAP PLUG	1
4	574-0435-01	Cable 4-Core 0.35mm² Screened 22 AWG (O.D. 5.99mm)	CABLE (CHECK WO FOR LENGTH)	XX
5	597-BL01-07	Heat Shrink General Blue 2:1	IS HEATSHRINK	AR
6	597-CL01-07	Heat Shrink General Clear 2:1	LABEL HEATSHRINK	AR
7	605-1001-12	Cable Gland Ex Accessory Nylon Sealing Washer	USE WITH GLAND FOR IP RATING	1
8	605-1015-01	Armoured Cable Barrier Gland Ex HAWKE ICG653 UNIV (O.D 5.5-12mm)	GLAND	1
9	605-1016-02	Cable Gland Accessory Ex HAWKE Gland Mounted Clamp	GLAND MOUNTING CLAMP	1
10	691-BATCH-03	BATCH# Printed Heatshrink Black on White	LABELS	2

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

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Zone 1 Wifi Torque Unit Accessory
Power AC Out Cable

Type	CAT	Temp. Rating
Revision	1	Ex Certificate
Status	R	Impact Tested
Date	07/03/2024	User 4
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	574-0324-01	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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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	0	Ex Certificate
Status	R	Impact Tested
Date	07/03/2024	User 4
By	BP	User 5

Item	P/N	Title	Reference(t)	Qty
1	474-0003-02	Connector CEAG Ex Socket Coupler 24V 16A Purple (c/w 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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16.0 MODIFICATION HISTORY

Date	Revision	Description	Prepared By	Authorised By
20/05/24	2	Updated cabling	BP	RH

17.0 MANUFACTURE CONTACT INFORMATION

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