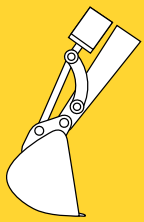


# EZiDIG

The world's first excavator mounted buried service locator.  
Helping to make excavation safer.



**EZiDIG**



**Real Time Warning  
as You Dig**

**Keeps the Operator  
Alert to Localised  
Threats**

**Increased Asset  
Protection**

**Safer Excavation  
Projects**

**Increased Productivity**



# Introducing the World's First Excavator

**EZiDIG** is the world's first excavator mounted cable avoidance tool, it alerts the operator **in real time** to the presence of buried metallic services.

## Reliable Technology

EZiDIG uses proven buried service location technology applied in a new and innovative way. Traditional hand held cable avoidance tools detect electromagnetic signals radiated by buried metallic services, EZiDIG works with the same technology but in a way that meets the needs of the excavator operator. By providing a real time warning of the presence of a buried metallic service EZiDIG works with the operator rather than against the workflow, keeping him alert to threats, so safety and productivity are both maximised.

## Real Time Warning

EZiDIG has been designed to give a second by second warning of the presence of electromagnetic signals commonly carried on buried metallic services. The EZiDIG sensor is activated when it picks up signals from under the ground within its "pawprint" area as the excavator arm moves over the area to be excavated. This information is then sent back to the display in the cab, alerting the operator to the presence of buried metallic services.

## Increased Safety

EZiDIG offers a huge benefit to operator safety, reduces the risk of project downtime and is set to become an essential addition to any excavator in an urban or developed environment. Our increasingly congested underground has made EZiDIG a crucial safety tool for the construction industry. Excavator drivers are now no longer completely reliant on pre-surveys by hand held locator or CAT equipment to locate buried services prior to excavation, nor are they held up by on the job checks during excavation, they can now get second by second warnings as they dig. This adds a whole other layer of safety to the digging process.

## Asset Protection

Maintenance and repair of construction equipment is an increasing cost to equipment owners and fleet managers. Commonly hydraulic hoses and cables are damaged when excavators are involved in power cable strikes. EZiDIG is an investment which increases site safety and reduces repair costs all without sacrificing productivity.



# Excavator Mounted Cable Avoidance Tool

## Solution Options

EZiDIG is available as a stand alone solution or can be integrated into existing machine control systems either via an installed Mikrofyn MikroDigger XC2 system or customised to fit to a range of systems installed by excavator manufacturers or re-sellers. The system is comprised of the following components:



### The EZiDIG Sensor unit

Mounted on the excavator dipper arm by two powerful magnets. This can be quickly and easily removed for security purposes.



### In-Cab Display Screen

The in-cab, easy to read, display screen provides both an audio and visual graduated warning of the proximity of a buried service.



### Power

The power box and connection cables.



## Installation

EZiDIG is supplied with a step by step installation guide and is easy to install and remove from your excavator. However, our specialised distribution partners will be on site to help you with your initial set up to ensure you get the maximum possible benefit from your new equipment and to guarantee someone is on hand to answer any questions.

## Ease of Mind

The proliferation of excavators designed to work in areas where our utilities are buried has created an increased requirement to avoid damage to these services and safety risks to both operators, the teams they are working with and members of the public. Best practice recommendations require operators to check for buried services frequently during excavations but this recommendation can be operationally difficult to achieve whilst maintaining productivity. EZiDIG solves this problem.





delivering expert technology

## Further Information

### The New EZiDIG

Name

Position

Company

## EZiDIG Technical Specifications

Please ensure you read your user manual before use



<b>Sensor Dimensions</b>	570 x 170 x 180mm 22.5 x 6.7 x 7in.	
<b>Sensor Weight</b>	approx 5.7kg. 12.44 lbs	
<b>Mounting</b>	Dual magnetic 160kg / 350lbs rated	
<b>Machine Type</b>	Recommended 10 ton maximum (approx). Set by maximum bucket height of 1.0m, with the sensor mounted 0.5m above top of bucket	
<b>Service Direction</b>	360 degree (omnidirectional) Maximum range 2.0m / 78in. from sensor	
<b>Operating Frequencies</b>	Power signals	50Hz - 1.5kHz
	Radio signals	15kHz - 30kHz
	Active transmitter signal	32.768kHz
<b>Operating Modes</b>	Single operating mode with simultaneous detection of Power, Radio and Active tracing signals	
<b>Operating Temperature</b>	-20°C to +50°C -4°F to +122°F	
<b>Storage Temperature</b>	-40°C to +70°C -40°F to +158°F	
<b>Handling Shock, Vibration, Bump</b>	EN60068-2	
<b>Sensor Protection</b>	Conforms to IP69	
<b>Jet Washing</b>	Yes (> 200mm / 8 inches)	
<b>Display / Power Supply Protection</b>	Conforms to IP54	
<b>Supply Voltage</b>	12 or 24V fused DC Machine Supply	
<b>Supply Current</b>	1A maximum	
<b>Conformity</b>	FCC Part 15 Class B	



R&TTE directive 99/5/EC  
EMC directive 89/336/EEC  
Low-voltage directive 73/23/EEC  
RoHS 2002/95/EG  
WEEE 2002/96/EG

The EZiDIG only detects electro-magnetic signals emitted from metallic services.  
The absence of a positive indication does not guarantee that no services are present, for example,  
plastic and concrete pipes will not typically carry electro-magnetic signals