

Oseis™

Orica Seismic Electronic Initiating System Detonator

Description

The **Oseis™** Detonator is high strength super accurate electronic detonator capable of in field programmed or instantaneous firing times. Through its capability of two-way communication the detonator can be checked via control equipment anytime from loading to firing. Protection structures built into the electronic circuitry provide a high level of security against stray current, over-voltage, static electricity and electromagnetic induction not present in conventional detonators.

Benefits

- System is protected against accidental or unintended detonation through inherent security.
- System is protected against unintended detonation caused by over voltage, static electricity, stray currents or electromagnetic inductions.
- Ensures initiation reliability with all detonator-sensitive explosives, even at low temperatures.
- Control equipment easy to use and interpret.
- Enables security tracking and inventory control of detonators via a unique identification number for every detonator that can be matched to shotpoint location.
- Harsh environment construction assures superior performance in the toughest projects.



Technical Properties

Oseis™ Detonator	Constant firing time, system accuracy: $\pm 0.075\text{ms}$ at 20ms after trigger signal
Leg wire:	Duplex steel wire
Tensile Strength	25.5 kg (56 LBS or 250 N)
Wire insulation:	Temperature and abrasion resistant polymer
Wire Color:	Yellow
Base charge:	Equivalent to a #8 strength detonator

Packaging

Leg Length m / ft	Wire Format	Units per Case
4 / 13	Folded	60
7 / 24	Folded	50
10 / 35	Folded	36
13 / 45	Folded	32
16 / 55	Spooled	42
20 / 65	Spooled	42
25 / 85	Spooled	42
30 / 100	Spooled	36
36 / 120	Spooled	24
40 / 130	Spooled	24
60 / 200	Spooled	24
100 / 328	Spooled	12

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Oseis™ Detonators are packed in two fiberboard inner boxes inside an external fiberboard case. Detonators are available in two formats: Figure 8 fold and spooled as indicated above.

Recommendations for use

The Orica Seismic Electronic Initiating System is designed to provide accurate, secure and reliable initiation of explosives used in seismic surveys. Priming the explosive and subsequent operations must be carried out in a manner that will ensure that the leg wires and Oseis™ detonator are not damaged. The Oseis™ detonator should always be secured inside a suitable explosive device, which fully encloses the Oseis™ detonator shell to protect it from damage during charging and ensure reliable charge initiation. Exposed Oseis™ detonators should not be placed inside blastholes. The steel leg wire is very robust, however if the insulation is cut or split, moisture may cause earth leakage problems resulting in testing and communication errors with the Oseis™ System.

Hazardous Materials Shipping Description

Authorized Name	Oseis™
Shipping Name:	Detonators Electric
Class Code:	1.4B
UN No.	0255, PG II

Storage and Handling

Oseis™ Detonators should be stored in a cool, dry licensed detonator magazine. Stacks of cases should be no more than 2 meters or 6.5 feet high. For recommended good practices in transporting, storing, handling, and using this product, refer to the "Always and Never" booklet packed inside each case.

Recommended temperature conditions:

Operating:	-20°C - +60°C
Storage:	-25°C - +65°C

Safety

Oseis™ detonators can be initiated by extremes of shock, friction or mechanical impact. As with all explosives Oseis™ detonators should be handled and stored with care.

Excessive force should not be applied to the leg wires under any circumstances. If an explosive charge becomes stuck when attempting to retrieve or reposition it, a replacement charge should be used. This Technical Data Sheet is for information only. The Orica Seismic Electronic Initiating System should only be used by personnel that have been trained to use this system.

Trademarks

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For additional information visit our web site at oricaminingservices.com under Seismic Exploration

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