

AXXIS^{GII}™

DIGITAL INITIATION SYSTEM
Electronic Delay Detonator

SAFE

EASY TO USE

RELIABLE

EFFECTIVE RESULTS

PRODUCT DESCRIPTION

AXXIS^{GII}™ Electronic Delay Detonators are fully programmable.

Each unit comprises a standard size detonator that fits into the detonator well of most standard commercial boosters.

At the opposite end of the cable, there is a plastic connector that allows the surface twin-flex cable to be spliced into the downline cable.

The connector houses a separate electronic tag that contains the unique detonator ID.



AXXIS^{GII}™ Electronic Delay Detonator

TECHNICAL DATA SHEET



AXXIS Electronic Delay Detonators does not include any permanent energy source and there is no direct communication with the detonator during logging. AXXIS electronic delay detonators will only function with AXXIS Blasting Boxes. Special security PIN codes are required to operate the system. A dead-man's switch disarms all detonators if the blast needs to be aborted at short notice.

TECHNICAL DATA	
✓ Functional Features	
• Delay Time Range	AXXIS Electronic Delay Detonators are all identical and programmable in the range : 0 to 10 seconds by step of 1ms
• Delay Accuracy	+ / - 0,5 ms for delay times from 0 to 2,5 seconds + / - 1 ms for delay times over 2,5 seconds
• Safety Functions	AXXIS EDDs do not include any permanent energy source and are fully programmable without operators on the blast area.
• Ease of Use	All AXXIS EDDs are connected in parallel
✓ Physical	
• Case of Electronic Detonator	Aluminium Magnesium alloy Nominal outer diameter 7,5mm Nominal length 93mm/95mm
• Detonator Size	Fits any standard booster
• Cable type	Twin core copper cable, double insulated over extruded
• Coiling Description	Cable coiled in 150 mm high shrink-wrapped coils with detonator feed from centre of spool for safety
• Weight	Long duplex wires 10m : 0,116 Kg
• Standard lengths	10m, 15m, 20m, 25m, 30m, 35, 40m, 45m, 50m – custom lengths on requests
• Firing time range	Programmable: 0 to 10 000 ms in 1 ms intervals
• Shelf Life	At recommended storage temperature: 48 months
✓ Environmental	
• Detonators passes tests specified in SANS 1717-1	SANS 1717-1: The South African National Standard for: The design and approval of EDD initiation system for use in mining and civil blasting applications.
• Operating Temperature Range	-20°C to +60°C
• Storage Temperature Range	-30°C to +50°C

TECHNICAL DATA SHEET



<ul style="list-style-type: none"> Resistance to Water 	IP 67 (connectors)
<ul style="list-style-type: none"> Resistance to Hydrostatic pressure 	7 Bars (electronic module / lead wires)
<ul style="list-style-type: none"> Resistance to Electrostatic Discharge 	No unintended detonation: > 1 Joule Energy @ 30KV - pin to pin / pins to shell
<ul style="list-style-type: none"> Resistance to Radio Frequency Radiation 	No unintended detonation: 30 V/m in the range 80 MHz to 1GHz
<ul style="list-style-type: none"> Sensitivity to Impact 	IK 10, 2kg from a height of 1.6m
<ul style="list-style-type: none"> Drop Test 	Packaged : Unpackaged: no detonation, free fall and guided drop test from height of 5m onto solid concrete plate
<ul style="list-style-type: none"> Resistance to Tensile Strength 	Lead-in wires : No breaks: 300N 120s Connectors 200 N Detonator crimps: No pull-outs: 250N / 120s
<ul style="list-style-type: none"> Resistance to Abrasion of Lead-in Wires 	Satisfy test criteria
<ul style="list-style-type: none"> Resistance to Cutting Damage of Lead-in Wires 	Lead-in wires : No breaks (continuity): 300N 120s
<ul style="list-style-type: none"> Dynamic Shock Resistance 	Satisfy test criteria

✓ Electrical	
<ul style="list-style-type: none"> No Fire Current 	0,18A DC for 300 seconds / 5 minutes
<ul style="list-style-type: none"> No Fire Impulse 	0.8 mJ / Ohm
<ul style="list-style-type: none"> Fire Impulse 	3 mJ / Ohm
<ul style="list-style-type: none"> All Fire Impulse 	2 Amp
✓ Initiating Capability	
<ul style="list-style-type: none"> Explosive Charge 	Base Charge – PETN, Primary Charge – Lead Azide/Lead Styphnate
<ul style="list-style-type: none"> Net Explosives Quantity 	± 1.00 gram / detonator
<ul style="list-style-type: none"> Detonator Strength 	#8 (South African Strength Definition)

TECHNICAL DATA SHEET



✓ Packaging	
<ul style="list-style-type: none">• UN Shipping Classification	Un Recommendation on the Transport of Dangerous Goods: 17 th Revised Edition RSA TEN-E Packaging Service Test Report: 12-16063 1.1B manufactured in South Africa - UN 0030 1.4B manufactured in South Africa - UN 0255 1.4S manufactured in South Africa - UN 0456
<ul style="list-style-type: none">• Detonator Configuration	Shrink wrapped coil
<ul style="list-style-type: none">• Cable Colour	Yellow
<ul style="list-style-type: none">• Connector	Yellow



Contact:

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