

RIONEL MS

Non Electric Millisecond Delay Detonator

www.maxam.net

RIONEL MILLISECOND



The RIONEL MS series has been designed for use as a down-the-hole detonator in standard blasting scenarios.

RIONEL MS are manufactured in a series of varying delay timings and when used in combination with RIONEL SCX surface connectors, offer a multitude of initiation sequence options. RIONEL MS are highly accurate delays that reduce risk of timing overlap.

The RIONEL MS detonator can prime RIOBOOSTER, RIOGEL, RIOHIT, RIOSPLIT and the full range of MAXAM's detonator-sensitive explosive products.

3,6m, 4,8m and 6m RIONEL MS include a J-Hook type connector to ease the connection to RIOCORD (5 gram/meter minimum) detonating cord.

Standard RIONEL MS detonators are coiled in a patented "figure 80" configuration which ensures tangle free deployment. Longer units are provided in spools also to ensure convenient tangle free deployment.

Advantages

- Safe, reliable and user friendly.
- Safe against extraneous electric currents.
- Shock tube designed to resist high tensile strength and elongations, avoiding its damage under normal operating conditions.
- The design, colours, labels and packaging ease its visibility and identification.



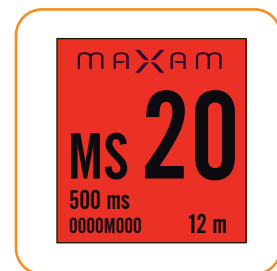
1. Shock tube with 3 layers coiled in a "figure 80" configuration which eases deployment and avoids tangles.



2. #8 strength Detonator fitted with a double crimp.



3. The fastening band is easy to break manually in order to achieve a quicker loading operation.



4. Water resistant label which includes Delay Period, Timing, Length and Lot Number.



"J-Hook" to ease its connection to RIOCORD (5 g/m minimum). Available only for 3,6, 4,8m and 6m length units.

Delay Times (nominal values)

Delay	Time (ms)
0	-
1	25
2	50
3	75
4	100
5	125
6	150
7	175
8	200
9	225
10	250
12	300
14	350
16	400
18	450
20	500
22	550
24	600
26	650
28	700
30	750

Standard Packaging, Class 1.1B (nominal values)

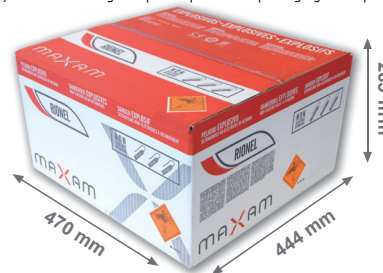
Length (m)	Units per box	Gross Weight (kg)	Net Weight (kg)	Tube Colour
3,6*	240	10	8	Orange
4,8*	240	12	10	Orange
6*	180	10	8	Orange
9*	150	11	9	Orange
12*	120	12	10	Orange
15*	96	11	9	Orange
18*	72	10	8	Orange
21*	72	10	8	Orange
24*	54	10	8	Orange
30*	40	10	8	Orange

*Standard Length. Fastest available delivery time. Other lengths upon request. Unit packaging is in Coils.

Special Packaging, Class 1.4B (nominal values)

40*	16	7	12	Orange
50*	16	8	13	Orange
60*	16	9	14	Orange
70*	16	9.5	14	Orange
80*	16	10.5	15	Orange
100*	16	12	17	Orange

*Standard Length. Fastest available delivery time. Other lengths upon request. Unit packaging is in Spools.



Transport Classification

Transport Classification	Standard Packaging	Special Packaging	
Class	1.1B	1.4B	1.4S
UN Number	UN 0360	UN 0361	UN 0500

Contact your local MAXAM representative for further information.

SAFETY WARNING

Read the Instructions Safety Sheet and the Material Safety Data Sheet provided carefully before using the RIONEL MS series detonators. RIONEL MS detonators must not be used in flammable environments such as methane or coal dust. MAXAM strongly recommends not to use RIONEL products with detonators and/or initiation systems supplied by other manufacturers in the same blast and declines all liability in these cases.

RIONEL MS detonators must be stored at moderate temperatures in a dry and well ventilated place according to local regulations.

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LLP MAXAM Kazakhstan
Republic of Kazakhstan,
Karaganda oblast,
Karaganda, 100009,
N. Abdirov, Ave., 3/2,
office 310-311
Tel: +7 (7212) 320457
Fax: +7 (7212) 320458
contact.kz@maxam.net

Distributor: