

Breach MC

Lightweight Multi-Circuit RF Firing System

Chemring
Technology Solutions



The Breach MC (Multi-Circuit) is a securely coded remote firing (RF) initiator, which allows multiple receivers to be selectively fired.

With an operating range in excess of 1000m line-of-sight, Breach MC is ideal for use in military engineering applications including, Explosive Methods of Entry (EMOE) and remote disruptor application for EOD/ IEDD use.



FEATURES

- Selectable multi-receiver innovation

Users are able to create up to ten firing groups containing any number of receivers. This is achieved by assigning each receiver to one of ten circuit ID's, which can be set on the device at the point of deployment. The user can then select a circuit ID to fire that will initiate all the receivers set with the chosen circuit ID.

- Fire-all mode

Using a single transmitter, all receivers irrespective of their assigned circuit ID's, can be initiated simultaneously with a broadcast fire command.

- Secure coding

The system coding is extremely secure with multiple data validity checks and cyclic redundancy algorithms to prevent inadvertent initiation of the receiver.

- Battery availability

To maximise the operational availability of the Breach MC, both the transmitter and receivers use the same commercial off-the-shelf batteries.

- Wire and shocktube receivers

Breach MC offers both wire output and Shocktube receiver (Remote Firing Devices) variants. The standard receiver has wire output terminals to deliver a high energy capacitive discharge pulse of 1.3 Joules.

- Common transmitter

The same transmitter can be used to initiate both wire or shocktube receivers within the same firing system or circuit ID's.

MORE ABOUT BREACH MC

Breach MC operates on a single frequency, which is selected by the customer and is set at manufacturer. Up to ten circuit ID's are available and can be used to initiate an unlimited number of receivers that can be a mix of electronic or shocktube variants.

To ensure user safety, all Breach MC receivers cannot initiate with five seconds of being switched on. This delay can be extended on user request and is set at manufacture.



SPECIFICATIONS

System	Value
RF Mode	Single frequency FFSK
Frequency range option	VHF/UHF
Typical Range (line of sight)	> 1000m (3280 feet)
Number of receivers in kit	Unlimited - customer specified
Number of circuit identities	10
Firing Modes	Individual, group or ALL fire

Transmitter	Value
Dimensions	85 x 65 x 23 mm
Approx weight (excl antenna):	225g (with batteries 260g)
Immersion	IP67 (1m, 1hr)
Operating temperature range	-20C to +55C
Storage temperature range	-30C to +65C
RF Output Power	100mW (nominal)

Remote Firing Devices (RFD)	Value
Nominal firing circuit energy (wire output version)	1.3 Joules
Safety timer (default)	5 seconds - others available on request
Dimensions	112 x 52 x 50 mm
Approx weight: (excluding antennas and ST heads)	RX-W, 360g (with batteries 410g) RX-ST, 350g (with batteries 400g)
Immersion	IP67 (1m, 1hr)
Operating temperature range	-20C to +55C
Storage temperature range	-30C to +65C
Battery Source	3 x CR123 (or equivalent)
Continuity Test (wire output version)	10 Ohms (nominal)

ORDERING

Breach MC Transmitter

Stock Number: 800-3087
NSN: 1385-99-512-9763

Breach MC Remote Firing Device (RFD)

Stock Number: 800-3092
NSN: 1385-99-340-3231

Breach MC Shock Tube RFD

Stock Number: 800-3082
NSN: 1385-99-362-6375

STH224/3 Shock Tube Firing Head (3mm)

Stock Number: 800-0746
NSN: 1385-99-241-8804

STH224/3 Shock Tube Firing Head (2mm)

Stock Number: 800-0747
NSN: 1385-99-154-9039

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