



BlackFrac Addressable Switches: Elevating Perforating Efficiency

Elevate your perforating operations with the BlackFrac Addressable Switches - where cutting-edge technology meets unparalleled reliability.



BlackFrac Features:

- **Peak Efficiency**
 - Outperforms with **38% greater efficiency** compared with competitors
 - Allows for more guns on the line
- **Compliance and Standards**
 - Fully compliant with API RP 67 standards
- **Unmatched Reliability**
 - Temperature rated from -40C to 175C
 - Employs the latest in perf technology for dependable operations
- **Rigorous Quality Control**
 - Comprehensive, **full-function testing** for each and every switch (inventory, test, and fire)
 - Immediate rectification and re-testing for rare units that fail
- **High Availability**
 - **Extensive inventory** ready to cater to immediate switch needs
- **Cost-Effective Solution**
 - Premium quality at a **competitive price** point
- **Ease of Use**
 - **Simple to operate**, making operations seamless
- **Origin of Excellence**
 - Designed and developed in **The Woodlands, Texas, USA**
- **Customization**
 - BlackFrac can **customize switches** to include specialized functionality and fit any size perforating gun

BLACKFRAC SPECIFICATIONS

Dimensions	L: 1.5" W: 0.75" H: 0.25"	Communication Current	12mA Surface 12mA Downhole
Operating Temperatures	-29C to 175C	Detonators - Hot Wire/Igniters - Setting Tools	50 ohms or Higher
Non-Powered Temperature	-58C to 200C	Stray Voltage Safe	400V
Operating Voltage Range	-20VDC to -300VDC	Radio Frequency Safe Board	1 MHz - 1,000 MHz ESD
Max Voltage/Transient Voltage Forward/Reserve	450V	ESD Safety Rating	Safe to 25,000V*
Max Firing Current Forward (Nominal)	2A	Skip Gun Capable	Yes
Max Firing Current Forward (Max)		Inventory Rate	0.6 - 0.7 Seconds
Operating Current - Standby	.5mA		