

The system has been designed principally to meet the requirements of EN 61496-1:2013 Safety of machinery - Electro-sensitive protective equipment - Part 1: General requirements and tests. The system has also been independently evaluated and approved by a Notified Body. The safety integrity of the system was evaluated as part of the approval process and the SAFER G guarding system has been assigned Safety Integrity level SIL 1 according to EN61508 and EN 62061 or PLR 'c' as detailed in EN13849. This meets the requirements of EN 16228:2014 Drilling and foundation equipment –Safety. The system employs Category 3 architecture and achieves a Probability of failure to Danger PFHd of 1.67×10^{-6} .

SAFER G is a system which creates a three dimensional safeguarded zone around the rotating drill shaft of drilling and foundation equipment. The system operates up to a range of 1.2 metres. The system can be installed to achieve an increased range by adding side guards but access from the front remains unrestricted. The width of the access at the front is 1.0 metres which conforms to the requirements for access openings.

SENSOR SPECIFICATIONS (Typical)

Electronics:	Solid state
Connector:	Deutsch DT series
Sealing:	Encapsulated to protect from dust and moisture to IP67.
Housing Material:	Polycarbonate
Outside Dimensions:	11.1cm H x 23.5cm W x 4.4cm D (4.38" x 9.24" x 1.75")
Weight:	0.68 kg (1.5 lb)
Operating Temperature:	-20oC to +50oC
Vibration:	25G RMS all three axes
Shock:	25G all three axes
Mounting:	Four 5.6mm (0.22") diameter holes on 8.54" horizontal centres and 2.00" vertical centres. Unit is supplied with #10 stainless steel screws for mounting purposes. Recommended torque is 2.26 Nm (22 inch-lbs).

ELECTRICAL SPECIFICATIONS

Input Voltage:	9-32VDC, over voltage protected to 150V
Input current:	0.2 amp maximum, inrush current limited to 1A
Polarity:	Negative ground, Polarity protected to 150V
Power Connection:	Two 20 AWG wires
Auxiliary Output:	Single 20 AWG wire, +150V tolerant
Active State:	Switched to ground, over current protected to 1 amp sink maximum.
Inactive State:	High impedance
Max Response Time	359 ms

OPERATING CHARACTERISTICS

Maximum Range:	1.20m
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**CONTACT US FOR MORE INFORMATION:
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