

Technical Data Sheet

PVFS Firefighter Safety Switches

DS0005
Issue.3 – 23/07/2025

General Description

At the core of the system, the Craig & Derricott PVFS Firefighter Safety Switch provides automatic isolation for up to 10 photovoltaic (PV) solar panel strings, ensuring enhanced safety and rapid disconnection in emergencies. Designed specifically for DC photovoltaic installations, the PVFS monitors the building's AC power supply and, upon power loss, automatically isolates connected PV strings as close to the panels as possible. This minimises live DC cabling, reducing hazards and improving safety for emergency responders by preventing electrical risks during critical events.

Built for durability, each unit is housed in an IP65-rated weather-resistant enclosure, making it suitable for outdoor and harsh environments. The system is designed to automatically restore PV connectivity when AC power is reinstated, ensuring minimal downtime and maintaining operational efficiency. By instantly disconnecting PV strings during power loss and reactivating them once supply is restored, the PVFS provides a reliable and robust safety solution for solar installations, offering essential protection for



Technical Data

PV Switch parameters

Model	PVFS40-2				PVFS40-4				PVFS40-6				PVFS40-8				PVFS40-10			
Number of strings	2				4				6				8				10			
Max DC voltage	1000 V d.c.																			
Max DC current	40A																			
Current rating @Voltage rating	40A 800V	40A 1000V	32A 1250V	26A 1500V	40A 800V	40A 1000V	32A 1250V	26A 1500V	40A 800V	40A 1000V	32A 1250V	26A 1500V	40A 800V	40A 1000V	32A 1250V	26A 1500V	40A 800V	40A 1000V	32A 1250V	26A 1500V
DC connector	MC4 Style connectors																			
Weight (kg)	2.5				3.6				4.4				5.1				6.2			

Control loop parameters

Power supply type	AC single phase
Nominal voltage	230V a.c.
Operating voltage	100V - 270V a.c.
Nominal frequency	50/60 Hz
Operating frequency	47-63 Hz
Nominal current	35 mA
Max current	200 mA
AC Current	Plug-in

Technical Data Sheet

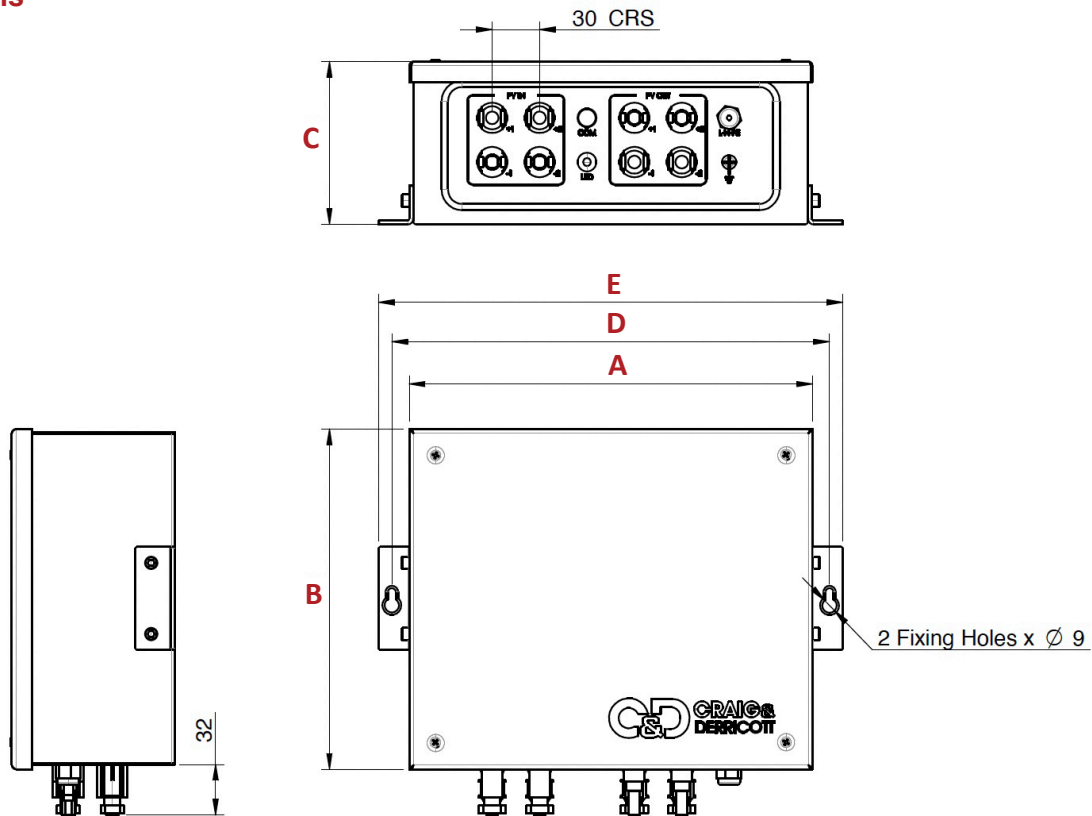
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Product parameters

Protection level	Class 2
Certification	CE, UKCA
Switch according to:	EN 60947-3
No. of operations	>10000
No. of ops under load	>1500
Operating temperature	-20°C - 70°C
Temperature sensor trigger	70°C
Recommended cable sizes	vvMC4 Style connectors - 4mm ² - 6mm ² PV Cable
	Signal Cable - 1mm ²

Dimensions



Dim (mm)	PVFS40-2	PVFS40-4	PVFS40-6	PVFS40-8	PVFS40-10
A	202	314	314	314	314
B	217	217	217	237	237
C	99	99	127	155	185
D	225	337	337	337	337
E	242	354	354	354	354